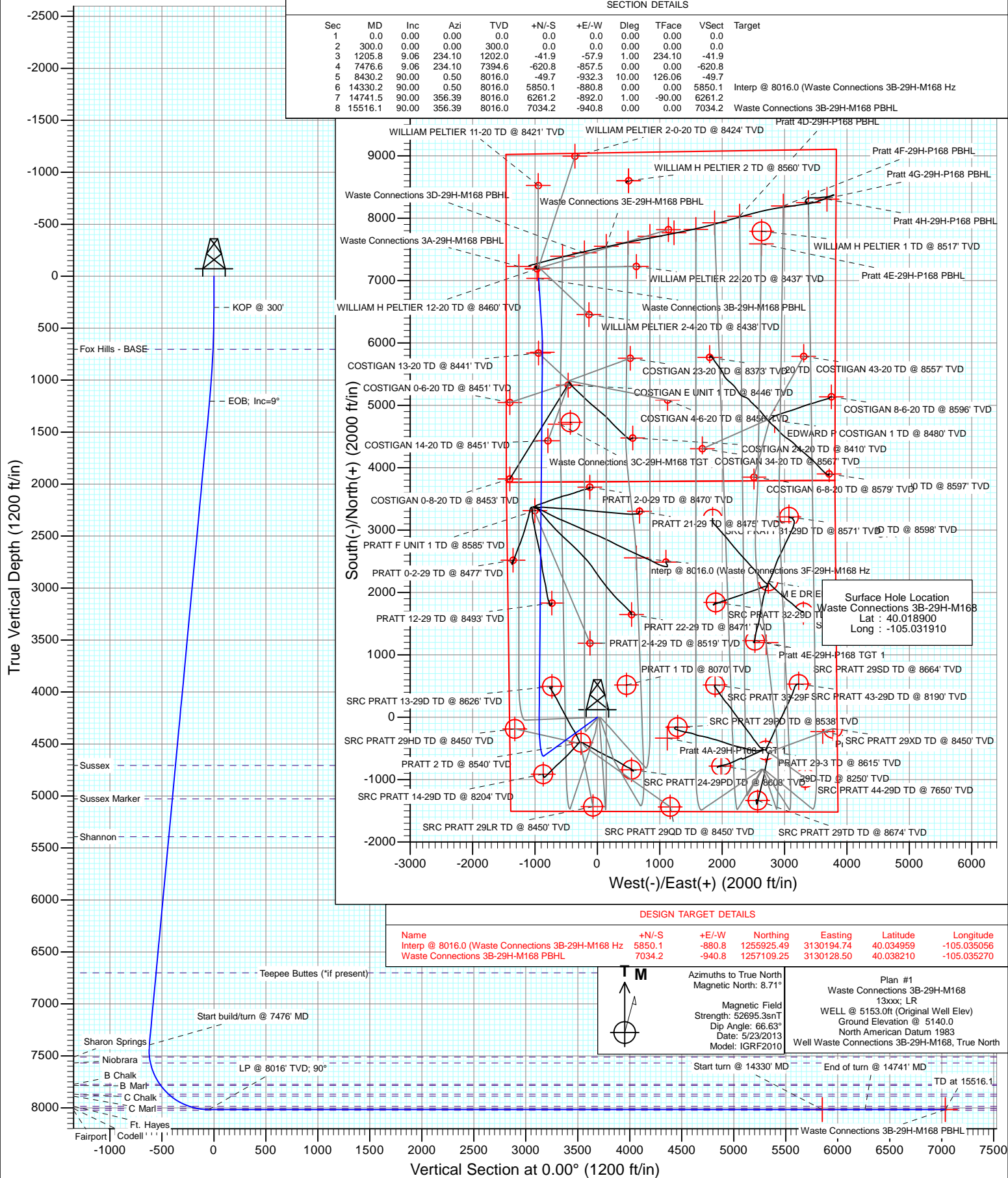




Project: DJ Wattenberg  
Site: S29-T1N-R68W (Pratt/Waste Connections)  
Well: Waste Connections 3B-29H-M168  
Bore: Hz  
Design: Plan #1



## Planning Report

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

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

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	Waste Connections 3B-29H-M168					
Well Position	+N/-S	0.0 ft	Northing:	1,250,080.12 ft	Latitude:	40.018900
	+E/-W	0.0 ft	Easting:	3,131,106.41 ft	Longitude:	-105.031910
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,140.0 ft

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

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	0.00

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,205.8	9.06	234.10	1,202.0	-41.9	-57.9	1.00	1.00	0.00	234.10	
7,476.6	9.06	234.10	7,394.6	-620.8	-857.5	0.00	0.00	0.00	0.00	
8,430.2	90.00	0.50	8,016.0	-49.7	-932.3	10.00	8.49	13.26	126.06	
14,330.2	90.00	0.50	8,016.0	5,850.1	-880.8	0.00	0.00	0.00	0.00	Interp @ 8016.0 (Was
14,741.5	90.00	356.39	8,016.0	6,261.2	-892.0	1.00	0.00	-1.00	-90.00	
15,516.1	90.00	356.39	8,016.0	7,034.2	-940.8	0.00	0.00	0.00	0.00	Waste Connections 3B

# Planning Report

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

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
400.0	1.00	234.10	400.0	-0.5	-0.7	-0.5	1.00	1.00	
500.0	2.00	234.10	500.0	-2.0	-2.8	-2.0	1.00	1.00	
600.0	3.00	234.10	599.9	-4.6	-6.4	-4.6	1.00	1.00	
700.0	4.00	234.10	699.7	-8.2	-11.3	-8.2	1.00	1.00	
703.3	4.03	234.10	703.0	-8.3	-11.5	-8.3	1.00	1.00	Fox Hills - BASE
800.0	5.00	234.10	799.4	-12.8	-17.7	-12.8	1.00	1.00	
900.0	6.00	234.10	898.9	-18.4	-25.4	-18.4	1.00	1.00	
1,000.0	7.00	234.10	998.3	-25.0	-34.6	-25.0	1.00	1.00	
1,100.0	8.00	234.10	1,097.4	-32.7	-45.2	-32.7	1.00	1.00	
1,200.0	9.00	234.10	1,196.3	-41.4	-57.1	-41.4	1.00	1.00	
1,205.8	9.06	234.10	1,202.0	-41.9	-57.9	-41.9	1.00	1.00	EOB; Inc=9°
1,300.0	9.06	234.10	1,295.1	-50.6	-69.9	-50.6	0.00	0.00	
1,400.0	9.06	234.10	1,393.8	-59.8	-82.6	-59.8	0.00	0.00	
1,500.0	9.06	234.10	1,492.6	-69.1	-95.4	-69.1	0.00	0.00	
1,600.0	9.06	234.10	1,591.3	-78.3	-108.1	-78.3	0.00	0.00	
1,700.0	9.06	234.10	1,690.1	-87.5	-120.9	-87.5	0.00	0.00	
1,800.0	9.06	234.10	1,788.8	-96.8	-133.6	-96.8	0.00	0.00	
1,900.0	9.06	234.10	1,887.6	-106.0	-146.4	-106.0	0.00	0.00	
2,000.0	9.06	234.10	1,986.3	-115.2	-159.2	-115.2	0.00	0.00	
2,100.0	9.06	234.10	2,085.1	-124.4	-171.9	-124.4	0.00	0.00	
2,200.0	9.06	234.10	2,183.8	-133.7	-184.7	-133.7	0.00	0.00	
2,300.0	9.06	234.10	2,282.6	-142.9	-197.4	-142.9	0.00	0.00	
2,400.0	9.06	234.10	2,381.3	-152.1	-210.2	-152.1	0.00	0.00	
2,500.0	9.06	234.10	2,480.1	-161.4	-222.9	-161.4	0.00	0.00	
2,600.0	9.06	234.10	2,578.8	-170.6	-235.7	-170.6	0.00	0.00	
2,700.0	9.06	234.10	2,677.6	-179.8	-248.4	-179.8	0.00	0.00	
2,800.0	9.06	234.10	2,776.4	-189.1	-261.2	-189.1	0.00	0.00	
2,900.0	9.06	234.10	2,875.1	-198.3	-273.9	-198.3	0.00	0.00	
3,000.0	9.06	234.10	2,973.9	-207.5	-286.7	-207.5	0.00	0.00	
3,100.0	9.06	234.10	3,072.6	-216.8	-299.4	-216.8	0.00	0.00	
3,200.0	9.06	234.10	3,171.4	-226.0	-312.2	-226.0	0.00	0.00	
3,300.0	9.06	234.10	3,270.1	-235.2	-324.9	-235.2	0.00	0.00	
3,400.0	9.06	234.10	3,368.9	-244.5	-337.7	-244.5	0.00	0.00	
3,500.0	9.06	234.10	3,467.6	-253.7	-350.4	-253.7	0.00	0.00	
3,600.0	9.06	234.10	3,566.4	-262.9	-363.2	-262.9	0.00	0.00	
3,700.0	9.06	234.10	3,665.1	-272.2	-375.9	-272.2	0.00	0.00	
3,800.0	9.06	234.10	3,763.9	-281.4	-388.7	-281.4	0.00	0.00	
3,900.0	9.06	234.10	3,862.6	-290.6	-401.4	-290.6	0.00	0.00	
4,000.0	9.06	234.10	3,961.4	-299.9	-414.2	-299.9	0.00	0.00	
4,100.0	9.06	234.10	4,060.1	-309.1	-426.9	-309.1	0.00	0.00	
4,200.0	9.06	234.10	4,158.9	-318.3	-439.7	-318.3	0.00	0.00	
4,300.0	9.06	234.10	4,257.6	-327.5	-452.5	-327.5	0.00	0.00	
4,400.0	9.06	234.10	4,356.4	-336.8	-465.2	-336.8	0.00	0.00	
4,500.0	9.06	234.10	4,455.2	-346.0	-478.0	-346.0	0.00	0.00	
4,600.0	9.06	234.10	4,553.9	-355.2	-490.7	-355.2	0.00	0.00	
4,700.0	9.06	234.10	4,652.7	-364.5	-503.5	-364.5	0.00	0.00	
4,754.0	9.06	234.10	4,706.0	-369.5	-510.4	-369.5	0.00	0.00	Sussex
4,800.0	9.06	234.10	4,751.4	-373.7	-516.2	-373.7	0.00	0.00	

# Planning Report

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

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,900.0	9.06	234.10	4,850.2	-382.9	-529.0	-382.9	0.00	0.00	
5,000.0	9.06	234.10	4,948.9	-392.2	-541.7	-392.2	0.00	0.00	
5,080.1	9.06	234.10	5,028.0	-399.6	-551.9	-399.6	0.00	0.00	Sussex Marker
5,100.0	9.06	234.10	5,047.7	-401.4	-554.5	-401.4	0.00	0.00	
5,200.0	9.06	234.10	5,146.4	-410.6	-567.2	-410.6	0.00	0.00	
5,300.0	9.06	234.10	5,245.2	-419.9	-580.0	-419.9	0.00	0.00	
5,400.0	9.06	234.10	5,343.9	-429.1	-592.7	-429.1	0.00	0.00	
5,447.7	9.06	234.10	5,391.0	-433.5	-598.8	-433.5	0.00	0.00	Shannon
5,500.0	9.06	234.10	5,442.7	-438.3	-605.5	-438.3	0.00	0.00	
5,600.0	9.06	234.10	5,541.4	-447.6	-618.2	-447.6	0.00	0.00	
5,700.0	9.06	234.10	5,640.2	-456.8	-631.0	-456.8	0.00	0.00	
5,800.0	9.06	234.10	5,738.9	-466.0	-643.7	-466.0	0.00	0.00	
5,900.0	9.06	234.10	5,837.7	-475.3	-656.5	-475.3	0.00	0.00	
6,000.0	9.06	234.10	5,936.4	-484.5	-669.2	-484.5	0.00	0.00	
6,100.0	9.06	234.10	6,035.2	-493.7	-682.0	-493.7	0.00	0.00	
6,200.0	9.06	234.10	6,134.0	-503.0	-694.7	-503.0	0.00	0.00	
6,300.0	9.06	234.10	6,232.7	-512.2	-707.5	-512.2	0.00	0.00	
6,400.0	9.06	234.10	6,331.5	-521.4	-720.2	-521.4	0.00	0.00	
6,500.0	9.06	234.10	6,430.2	-530.6	-733.0	-530.6	0.00	0.00	
6,600.0	9.06	234.10	6,529.0	-539.9	-745.8	-539.9	0.00	0.00	
6,700.0	9.06	234.10	6,627.7	-549.1	-758.5	-549.1	0.00	0.00	
6,773.2	9.06	234.10	6,700.0	-555.9	-767.8	-555.9	0.00	0.00	Teepee Buttes (*if present)
6,800.0	9.06	234.10	6,726.5	-558.3	-771.3	-558.3	0.00	0.00	
6,900.0	9.06	234.10	6,825.2	-567.6	-784.0	-567.6	0.00	0.00	
7,000.0	9.06	234.10	6,924.0	-576.8	-796.8	-576.8	0.00	0.00	
7,100.0	9.06	234.10	7,022.7	-586.0	-809.5	-586.0	0.00	0.00	
7,200.0	9.06	234.10	7,121.5	-595.3	-822.3	-595.3	0.00	0.00	
7,300.0	9.06	234.10	7,220.2	-604.5	-835.0	-604.5	0.00	0.00	
7,400.0	9.06	234.10	7,319.0	-613.7	-847.8	-613.7	0.00	0.00	
7,476.6	9.06	234.10	7,394.6	-620.8	-857.5	-620.8	0.00	0.00	Start build/turn @ 7476' MD
7,500.0	7.91	248.00	7,417.8	-622.5	-860.5	-622.5	10.00	-4.91	
7,593.1	9.64	311.41	7,510.0	-619.7	-872.3	-619.7	10.00	1.86	Sharon Springs
7,600.0	10.10	314.40	7,516.8	-618.9	-873.2	-618.9	10.00	6.69	
7,652.4	14.21	330.06	7,568.0	-610.1	-879.7	-610.1	10.00	7.86	Niobrara
7,700.0	18.45	337.88	7,613.7	-598.1	-885.4	-598.1	10.00	8.89	
7,800.0	27.88	346.47	7,705.5	-560.6	-896.9	-560.6	10.00	9.44	
7,879.4	35.58	350.17	7,773.0	-519.7	-905.2	-519.7	10.00	9.70	B Chalk
7,893.0	36.91	350.66	7,784.0	-511.8	-906.5	-511.8	10.00	9.77	B Marl
7,900.0	37.60	350.91	7,789.6	-507.6	-907.2	-507.6	10.00	9.78	
8,000.0	47.42	353.73	7,863.2	-440.7	-916.1	-440.7	10.00	9.82	
8,007.1	48.12	353.89	7,868.0	-435.5	-916.7	-435.5	10.00	9.85	C Chalk
8,036.4	51.01	354.54	7,887.0	-413.3	-918.9	-413.3	10.00	9.86	C Marl
8,100.0	57.28	355.77	7,924.2	-362.0	-923.2	-362.0	10.00	9.88	
8,200.0	67.18	357.41	7,970.8	-273.8	-928.4	-273.8	10.00	9.90	
8,237.0	70.84	357.95	7,984.0	-239.3	-929.8	-239.3	10.00	9.91	Ft. Hayes
8,300.0	77.09	358.81	8,001.4	-178.7	-931.5	-178.7	10.00	9.91	
8,322.5	79.32	359.11	8,006.0	-156.7	-931.9	-156.7	10.00	9.92	Codell
8,400.0	87.01	0.12	8,015.2	-79.8	-932.4	-79.8	10.00	9.92	
8,430.2	90.00	0.50	8,016.0	-49.7	-932.3	-49.7	10.00	9.92	LP @ 8016' TVD; 90°
8,500.0	90.00	0.50	8,016.0	20.1	-931.7	20.1	0.00	0.00	
8,600.0	90.00	0.50	8,016.0	120.1	-930.8	120.1	0.00	0.00	
8,700.0	90.00	0.50	8,016.0	220.1	-929.9	220.1	0.00	0.00	

# Planning Report

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

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	0.50	8,016.0	320.1	-929.1	320.1	0.00	0.00	
8,900.0	90.00	0.50	8,016.0	420.1	-928.2	420.1	0.00	0.00	
9,000.0	90.00	0.50	8,016.0	520.1	-927.3	520.1	0.00	0.00	
9,100.0	90.00	0.50	8,016.0	620.1	-926.4	620.1	0.00	0.00	
9,200.0	90.00	0.50	8,016.0	720.1	-925.6	720.1	0.00	0.00	
9,300.0	90.00	0.50	8,016.0	820.1	-924.7	820.1	0.00	0.00	
9,400.0	90.00	0.50	8,016.0	920.1	-923.8	920.1	0.00	0.00	
9,500.0	90.00	0.50	8,016.0	1,020.1	-923.0	1,020.1	0.00	0.00	
9,600.0	90.00	0.50	8,016.0	1,120.1	-922.1	1,120.1	0.00	0.00	
9,700.0	90.00	0.50	8,016.0	1,220.1	-921.2	1,220.1	0.00	0.00	
9,800.0	90.00	0.50	8,016.0	1,320.1	-920.3	1,320.1	0.00	0.00	
9,900.0	90.00	0.50	8,016.0	1,420.1	-919.5	1,420.1	0.00	0.00	
10,000.0	90.00	0.50	8,016.0	1,520.1	-918.6	1,520.1	0.00	0.00	
10,100.0	90.00	0.50	8,016.0	1,620.1	-917.7	1,620.1	0.00	0.00	
10,200.0	90.00	0.50	8,016.0	1,720.1	-916.8	1,720.1	0.00	0.00	
10,300.0	90.00	0.50	8,016.0	1,820.1	-916.0	1,820.1	0.00	0.00	
10,400.0	90.00	0.50	8,016.0	1,920.1	-915.1	1,920.1	0.00	0.00	
10,500.0	90.00	0.50	8,016.0	2,020.1	-914.2	2,020.1	0.00	0.00	
10,600.0	90.00	0.50	8,016.0	2,120.1	-913.4	2,120.1	0.00	0.00	
10,700.0	90.00	0.50	8,016.0	2,220.1	-912.5	2,220.1	0.00	0.00	
10,800.0	90.00	0.50	8,016.0	2,320.1	-911.6	2,320.1	0.00	0.00	
10,900.0	90.00	0.50	8,016.0	2,420.1	-910.7	2,420.1	0.00	0.00	
11,000.0	90.00	0.50	8,016.0	2,520.0	-909.9	2,520.0	0.00	0.00	
11,100.0	90.00	0.50	8,016.0	2,620.0	-909.0	2,620.0	0.00	0.00	
11,200.0	90.00	0.50	8,016.0	2,720.0	-908.1	2,720.0	0.00	0.00	
11,300.0	90.00	0.50	8,016.0	2,820.0	-907.2	2,820.0	0.00	0.00	
11,400.0	90.00	0.50	8,016.0	2,920.0	-906.4	2,920.0	0.00	0.00	
11,500.0	90.00	0.50	8,016.0	3,020.0	-905.5	3,020.0	0.00	0.00	
11,600.0	90.00	0.50	8,016.0	3,120.0	-904.6	3,120.0	0.00	0.00	
11,700.0	90.00	0.50	8,016.0	3,220.0	-903.8	3,220.0	0.00	0.00	
11,800.0	90.00	0.50	8,016.0	3,320.0	-902.9	3,320.0	0.00	0.00	
11,900.0	90.00	0.50	8,016.0	3,420.0	-902.0	3,420.0	0.00	0.00	
12,000.0	90.00	0.50	8,016.0	3,520.0	-901.1	3,520.0	0.00	0.00	
12,100.0	90.00	0.50	8,016.0	3,620.0	-900.3	3,620.0	0.00	0.00	
12,200.0	90.00	0.50	8,016.0	3,720.0	-899.4	3,720.0	0.00	0.00	
12,300.0	90.00	0.50	8,016.0	3,820.0	-898.5	3,820.0	0.00	0.00	
12,400.0	90.00	0.50	8,016.0	3,920.0	-897.6	3,920.0	0.00	0.00	
12,500.0	90.00	0.50	8,016.0	4,020.0	-896.8	4,020.0	0.00	0.00	
12,600.0	90.00	0.50	8,016.0	4,120.0	-895.9	4,120.0	0.00	0.00	
12,700.0	90.00	0.50	8,016.0	4,220.0	-895.0	4,220.0	0.00	0.00	
12,800.0	90.00	0.50	8,016.0	4,320.0	-894.2	4,320.0	0.00	0.00	
12,900.0	90.00	0.50	8,016.0	4,420.0	-893.3	4,420.0	0.00	0.00	
13,000.0	90.00	0.50	8,016.0	4,520.0	-892.4	4,520.0	0.00	0.00	
13,100.0	90.00	0.50	8,016.0	4,620.0	-891.5	4,620.0	0.00	0.00	
13,200.0	90.00	0.50	8,016.0	4,720.0	-890.7	4,720.0	0.00	0.00	
13,300.0	90.00	0.50	8,016.0	4,820.0	-889.8	4,820.0	0.00	0.00	
13,400.0	90.00	0.50	8,016.0	4,920.0	-888.9	4,920.0	0.00	0.00	
13,500.0	90.00	0.50	8,016.0	5,020.0	-888.0	5,020.0	0.00	0.00	
13,600.0	90.00	0.50	8,016.0	5,119.9	-887.2	5,119.9	0.00	0.00	
13,700.0	90.00	0.50	8,016.0	5,219.9	-886.3	5,219.9	0.00	0.00	
13,800.0	90.00	0.50	8,016.0	5,319.9	-885.4	5,319.9	0.00	0.00	
13,900.0	90.00	0.50	8,016.0	5,419.9	-884.6	5,419.9	0.00	0.00	

## Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,000.0	90.00	0.50	8,016.0	5,519.9	-883.7	5,519.9	0.00	0.00	
14,100.0	90.00	0.50	8,016.0	5,619.9	-882.8	5,619.9	0.00	0.00	
14,200.0	90.00	0.50	8,016.0	5,719.9	-881.9	5,719.9	0.00	0.00	
14,300.0	90.00	0.50	8,016.0	5,819.9	-881.1	5,819.9	0.00	0.00	
14,330.2	90.00	0.50	8,016.0	5,850.1	-880.8	5,850.1	0.00	0.00	Start turn @ 14330' MD - Interp @ 8016.0 (Was
14,400.0	90.00	359.80	8,016.0	5,919.9	-880.6	5,919.9	1.00	0.00	
14,500.0	90.00	358.80	8,016.0	6,019.9	-881.8	6,019.9	1.00	0.00	
14,600.0	90.00	357.80	8,016.0	6,119.9	-884.8	6,119.9	1.00	0.00	
14,700.0	90.00	356.80	8,016.0	6,219.8	-889.5	6,219.8	1.00	0.00	
14,741.5	90.00	356.39	8,016.0	6,261.2	-892.0	6,261.2	1.00	0.00	End of turn @ 14741' MD
14,800.0	90.00	356.39	8,016.0	6,319.6	-895.7	6,319.6	0.00	0.00	
14,900.0	90.00	356.39	8,016.0	6,419.4	-902.0	6,419.4	0.00	0.00	
15,000.0	90.00	356.39	8,016.0	6,519.2	-908.3	6,519.2	0.00	0.00	
15,100.0	90.00	356.39	8,016.0	6,619.0	-914.6	6,619.0	0.00	0.00	
15,200.0	90.00	356.39	8,016.0	6,718.8	-920.9	6,718.8	0.00	0.00	
15,300.0	90.00	356.39	8,016.0	6,818.6	-927.2	6,818.6	0.00	0.00	
15,400.0	90.00	356.39	8,016.0	6,918.4	-933.5	6,918.4	0.00	0.00	
15,500.0	90.00	356.39	8,016.0	7,018.2	-939.8	7,018.2	0.00	0.00	
15,516.1	90.00	356.39	8,016.0	7,034.2	-940.8	7,034.2	0.00	0.00	TD at 15516.1 - Waste Connections 3B-29H-M1

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Interp @ 8016.0 (Waste - plan hits target center - Point	0.00	0.00	8,016.0	5,850.1	-880.8	1,255,925.49	3,130,194.74	40.034959	-105.035056
Waste Connections 3B-2 - plan hits target center - Point	0.00	0.00	8,016.0	7,034.2	-940.8	1,257,109.25	3,130,128.50	40.038210	-105.035270

## Planning Report

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
703.3	703.0	Fox Hills - BASE				
4,754.0	4,706.0	Sussex				
5,080.1	5,028.0	Sussex Marker				
5,447.7	5,391.0	Shannon				
6,773.2	6,700.0	Teepee Buttes (*if present)				
7,593.1	7,510.0	Sharon Springs				
7,652.4	7,568.0	Niobrara				
7,879.4	7,773.0	B Chalk				
7,893.0	7,784.0	B Marl				
8,007.1	7,868.0	C Chalk				
8,036.4	7,887.0	C Marl				
8,237.0	7,984.0	Ft. Hayes				
8,322.5	8,006.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.0	300.0	0.0	0.0	KOP @ 300'	
1,205.8	1,202.0	-41.9	-57.9	EOB; Inc=9°	
7,476.6	7,394.6	-620.8	-857.5	Start build/turn @ 7476' MD	
8,430.2	8,016.0	-49.7	-932.3	LP @ 8016' TVD; 90°	
14,330.2	8,016.0	5,850.1	-880.8	Start turn @ 14330' MD	
14,741.5	8,016.0	6,261.2	-892.0	End of turn @ 14741' MD	
15,516.1	8,016.0	7,034.2	-940.8	TD at 15516.1	

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

**DJ Wattenberg**

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

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

**Hz**

**Plan #1**

## **Anticollision Report**

**30 May, 2013**



## Anticollision Report

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

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

<b>Survey Tool Program</b>		<b>Date</b>	5/30/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	15,516.1	Plan #1 (Hz)	MWD	Geolink MWD	

# Anticollision Report

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

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S29-T1N-R68W (Pratt/Waste Connections)						
COSTIGAN 0-6-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 0-8-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 13-20 (EXISTING) - ENCANA WELL - PLAN	14,319.0	7,988.2	62.7	-58.5	0.517	Level 1, CC, ES, SF
COSTIGAN 14-20 (EXISTING) - ENCANA WELL - PLAN	12,914.2	8,028.4	100.7	-1.3	0.988	Level 1, CC, ES, SF
COSTIGAN 23-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 24-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 33-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 34-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 43-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 4-6-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 6-8-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 8-6-20 (EXISTING) - ENCANA WELL - SUR						Out of range
COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SUR						Out of range
COSTIGAN E UNIT 1 (EXISTING) - ENCANA WELL - NO	13,808.0	7,940.0	419.1	309.0	3.806	CC, ES, SF
COSTIGAN H UNIT 1 (EXISTING) - VESSELS WELL - N	13,211.2	7,982.0	457.4	357.5	4.579	CC, ES, SF
EDWARD P COSTIGAN 1 (EXISTING) - ENCANA WELL						Out of range
M E DRIER 1 (EXISTING) - SYNERGY WELL - NO SUR						Out of range
PRATT 0-2-29 (EXISTING) - ENCANA WELL - SURVEY	10,983.6	8,120.4	445.7	377.1	6.502	CC, ES
PRATT 0-2-29 (EXISTING) - ENCANA WELL - SURVEY	11,000.0	8,120.8	446.0	377.2	6.480	SF
PRATT 1 (EXISTING) - SYNERGY WELL - NO SURVEY						Out of range
PRATT 12-29 (EXISTING) - ENCANA WELL - SURVEYS	10,300.4	8,254.7	186.5	119.2	2.771	CC, ES, SF
PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEY	3,611.8	3,566.0	177.7	161.3	10.812	CC, ES
PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEY	3,900.0	3,850.6	183.4	165.8	10.387	SF
PRATT 2-0-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
PRATT 21-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 22-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 2-4-29 (EXISTING) - ENCANA WELL - PLAN ON						Out of range
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV						Out of range
PRATT 4-2-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Pratt 4B-29H-P168 - Hz - Plan #1						Out of range
Pratt 4C-29H-P168 - Hz - Plan #1						Out of range
Pratt 4D-29H-P168 - Hz - Plan #1						Out of range
Pratt 4E-29H-P168 - Hz - Plan #1						Out of range
Pratt 4F-29H-P168 - Hz - Plan #1						Out of range
Pratt 4G-29H-P168 - Hz - Plan #1						Out of range
PRATT F UNIT 1 (EXISTING) - ENCANA WELL - NO SU	11,792.6	7,967.0	97.6	22.2	1.293	Level 3, CC, ES, SF
SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - S	8,961.5	8,134.4	203.3	164.4	5.229	CC, ES, SF
SRC PRATT 14-29D (EXISTING) - SYNERGY WELL - S	7,546.1	7,560.1	300.9	264.2	8.212	CC, ES, SF
SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL -	1,352.7	1,321.1	434.0	427.7	69.341	CC, ES
SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL -	2,000.0	1,930.7	492.0	482.2	50.264	SF
SRC PRATT 29HD (EXISTING) - SYNERGY WELL - PL	8,300.0	8,106.2	391.6	362.2	13.319	ES, SF
SRC PRATT 29HD (EXISTING) - SYNERGY WELL - PL	8,300.6	8,106.4	391.6	362.2	13.320	CC
SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLA	1,548.9	1,475.0	411.3	405.8	74.356	CC, ES
SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLA	2,400.0	2,274.6	494.6	485.0	51.352	SF
SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SU						Out of range
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL	200.0	189.0	470.3	469.7	716.701	CC, ES
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL	1,400.0	1,308.2	493.2	486.8	77.305	SF
SRC PRATT 29SD (EXISTING) - SYNERGY WELL - SU						Out of range
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU						Out of range
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLA						Out of range
SRC PRATT 31-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 32-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -						Out of range

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

# Anticollision Report

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

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (ft)	Between Ellipses (ft)		
S29-T1N-R68W (Pratt/Waste Connections)						
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 42-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P						Out of range
Waste Connections 3A-29H-M168 - Hz - Plan #1	200.0	200.0	8.4	7.7	12.872	CC, ES
Waste Connections 3A-29H-M168 - Hz - Plan #1	15,516.1	14,728.8	390.0	182.0	1.875	SF
Waste Connections 3C-29H-M168 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.183	CC, ES
Waste Connections 3C-29H-M168 - Hz - Plan #1	15,516.1	16,227.1	441.3	222.8	2.020	SF
Waste Connections 3D-29H-M168 - Hz - Plan #1	300.0	300.0	19.6	18.6	19.570	CC, ES
Waste Connections 3D-29H-M168 - Hz - Plan #1	800.0	800.7	32.8	30.1	11.890	SF
Waste Connections 3E-29H-M168 - Hz - Plan #1	300.0	300.0	30.8	29.8	30.752	CC, ES
Waste Connections 3E-29H-M168 - Hz - Plan #1	700.0	699.7	42.6	40.2	17.607	SF
Waste Connections 3F-29H-M168 - Hz - Plan #1	300.0	300.0	39.2	38.2	39.140	CC, ES
Waste Connections 3F-29H-M168 - Hz - Plan #1	700.0	698.5	55.0	52.6	22.542	SF
Waste Connections 3G-29H-M168 - Hz - Plan #1	166.3	167.3	50.4	49.9	93.886	CC
Waste Connections 3G-29H-M168 - Hz - Plan #1	200.0	201.0	50.4	49.8	77.027	ES
Waste Connections 3G-29H-M168 - Hz - Plan #1	700.0	696.4	76.6	74.2	31.342	SF
WILLIAM H PELTIER 1 (EXISTING) - VESSELS WELL -						Out of range
WILLIAM H PELTIER 2 (EXISTING) - ENCANA WELL - P						Out of range
WILLIAM H PELTIER 2 (EXISTING) - ENCANA WELL - S						Out of range
WILLIAM PELTIER 11-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 12-20 (EXISTING) - ENCANA WELL	15,516.1	8,000.0	163.1	101.1	2.631	CC, ES, SF
WILLIAM PELTIER 12-20 (EXISTING) - ENCANA WELL	15,516.1	8,039.6	202.5	68.6	1.512	CC, ES, SF
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	15,516.1	12,406.5	427.3	379.3	8.915	CC, ES, SF
WILLIAM PELTIER 2-0-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 22-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 2-4-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 4-2-20 (EXISTING) - ENCANA WELL						Out of range

# Anticollision Report

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

Offset Design											S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 13-20 (EXISTING) - ENCANA WELL - PLAN O			Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
13,900.0	8,016.0	7,988.2	7,951.0	99.2	18.3	-90.00	5,839.4	-943.6	423.6	309.6	113.92	3.718				
14,000.0	8,016.0	7,988.2	7,951.0	101.0	18.3	-90.00	5,839.4	-943.6	325.0	209.4	115.66	2.810				
14,100.0	8,016.0	7,988.2	7,951.0	102.7	18.3	-90.00	5,839.4	-943.6	227.7	110.3	117.39	1.940				
14,200.0	8,016.0	7,988.2	7,951.0	104.4	18.3	-90.00	5,839.4	-943.6	134.4	15.3	119.13	1.128	Level 2			
14,300.0	8,016.0	7,988.2	7,951.0	106.1	18.3	-90.00	5,839.4	-943.6	65.5	-55.4	120.87	0.542	Level 1			
14,319.0	8,016.0	7,988.2	7,951.0	106.4	18.3	-90.00	5,839.4	-943.6	62.7	-58.5	121.24	0.517	Level 1, CC, ES, SF			
14,400.0	8,016.0	7,988.2	7,951.0	107.8	18.3	-90.00	5,839.4	-943.6	102.3	-20.6	122.84	0.832	Level 1			
14,500.0	8,016.0	7,988.2	7,951.0	109.5	18.3	-90.00	5,839.4	-943.6	190.8	65.9	124.90	1.528				
14,600.0	8,016.0	7,988.2	7,951.0	111.3	18.3	-90.00	5,839.4	-943.6	286.6	159.7	126.92	2.258				
14,700.0	8,016.0	7,988.2	7,951.0	113.0	18.3	-90.00	5,839.4	-943.6	384.2	255.3	128.92	2.980				
14,800.0	8,016.0	7,988.2	7,951.0	114.7	18.3	-90.00	5,839.4	-943.6	482.6	351.8	130.75	3.691				

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 14-20 (EXISTING) - ENCANA WELL - PLAN O													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,500.0	8,016.0	8,028.4	7,951.0	75.5	21.9	90.00	4,433.3	-792.4	426.2	331.4	94.84	4.494		
12,600.0	8,016.0	8,028.4	7,951.0	77.2	21.9	90.00	4,433.3	-792.4	329.9	233.3	96.56	3.417		
12,700.0	8,016.0	8,028.4	7,951.0	78.9	21.9	90.00	4,433.3	-792.4	236.7	138.4	98.28	2.408		
12,800.0	8,016.0	8,028.4	7,951.0	80.5	21.9	90.00	4,433.3	-792.4	152.2	52.2	100.01	1.522		
12,900.0	8,016.0	8,028.4	7,951.0	82.2	21.9	90.00	4,433.3	-792.4	101.7	0.0	101.73	1.000 Level 1		
12,914.2	8,016.0	8,028.4	7,951.0	82.5	21.9	90.00	4,433.3	-792.4	100.7	-1.3	101.97	0.988 Level 1, CC, ES, SF		
13,000.0	8,016.0	8,028.4	7,951.0	83.9	21.9	90.00	4,433.3	-792.4	132.3	28.9	103.46	1.279 Level 3		
13,100.0	8,016.0	8,028.4	7,951.0	85.6	21.9	90.00	4,433.3	-792.4	211.4	106.2	105.18	2.010		
13,200.0	8,016.0	8,028.4	7,951.0	87.3	21.9	90.00	4,433.3	-792.4	303.1	196.2	106.91	2.835		
13,300.0	8,016.0	8,028.4	7,951.0	89.0	21.9	90.00	4,433.3	-792.4	398.8	290.1	108.64	3.671		
13,400.0	8,016.0	8,028.4	7,951.0	90.7	21.9	90.00	4,433.3	-792.4	496.2	385.8	110.37	4.496		

## Anticollision Report

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

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.0 ft
S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN E UNIT 1 (EXISTING) - ENCANA WELL - NO												<b>Offset Well Error:</b>	0.0 ft
Survey Program: 8446-MWD													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
13,600.0	8,016.0	7,940.0	7,940.0	94.1	13.9	90.00	5,324.3	-466.2	467.9	361.4	106.54	4.392	
13,700.0	8,016.0	7,940.0	7,940.0	95.8	13.9	90.00	5,324.3	-466.2	432.8	324.6	108.27	3.998	
13,800.0	8,016.0	7,940.0	7,940.0	97.5	13.9	90.00	5,324.3	-466.2	419.2	309.2	110.00	3.811	
13,808.0	8,016.0	7,940.0	7,940.0	97.7	13.9	90.00	5,324.3	-466.2	419.1	309.0	110.14	3.806	CC, ES, SF
13,900.0	8,016.0	7,940.0	7,940.0	99.2	13.9	90.00	5,324.3	-466.2	429.1	317.4	111.74	3.841	
14,000.0	8,016.0	7,940.0	7,940.0	101.0	13.9	90.00	5,324.3	-466.2	461.0	347.6	113.47	4.063	

## Anticollision Report

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

<b>Offset Design</b> S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN H UNIT 1 (EXISTING) - VESSELS WELL - NO													<b>Offset Site Error:</b> 0.0 ft
Survey Program: 8400-MWD													<b>Offset Well Error:</b> 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,100.0	8,016.0	7,982.0	7,982.0	85.6	13.9	90.00	4,727.2	-433.2	470.7	372.8	97.96	4.805	
13,200.0	8,016.0	7,982.0	7,982.0	87.3	13.9	90.00	4,727.2	-433.2	457.5	357.8	99.69	4.589	
13,211.2	8,016.0	7,982.0	7,982.0	87.5	13.9	90.00	4,727.2	-433.2	457.4	357.5	99.88	4.579	CC, ES, SF
13,300.0	8,016.0	7,982.0	7,982.0	89.0	13.9	90.00	4,727.2	-433.2	465.9	364.5	101.42	4.594	
13,400.0	8,016.0	7,982.0	7,982.0	90.7	13.9	90.00	4,727.2	-433.2	494.8	391.7	103.15	4.797	

## Anticollision Report

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

Offset Design		S29-T1N-R68W (Pratt/Waste Connections) - PRATT 0-2-29 (EXISTING) - ENCANA WELL - SURVEYS										Offset Site Error:		0.0 ft	
Survey Program:		41-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				
10,800.0	8,016.0	8,116.3	7,993.8	47.8	21.3	-90.23	2,507.5	-1,355.7	482.0	416.5	65.50	7.359			
10,900.0	8,016.0	8,118.6	7,996.0	49.3	21.3	-90.52	2,507.5	-1,355.6	453.5	386.3	67.16	6.752			
10,983.6	8,016.0	8,120.4	7,997.9	50.6	21.3	-90.76	2,507.6	-1,355.6	445.7	377.1	68.55	6.502 CC, ES			
11,000.0	8,016.0	8,120.8	7,998.3	50.9	21.3	-90.81	2,507.6	-1,355.6	446.0	377.2	68.82	6.480 SF			
11,100.0	8,016.0	8,123.0	8,000.5	52.5	21.3	-91.09	2,507.6	-1,355.6	460.6	390.1	70.49	6.535			
11,200.0	8,016.0	8,125.3	8,002.7	54.1	21.3	-91.38	2,507.7	-1,355.6	495.4	423.2	72.16	6.865			



# Anticollision Report

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

Offset Design		S29-T1N-R68W (Pratt/Waste Connections) - PRATT 12-29 (EXISTING) - ENCANA WELL - SURVEYS										Offset Site Error:		0.0 ft	
Survey Program:		72-MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
9,900.0	8,016.0	8,247.0	7,982.9	34.5	31.1	87.21	1,818.7	-729.5	441.6	380.7	60.91	7.250			
10,000.0	8,016.0	8,248.9	7,984.8	35.9	31.1	87.80	1,818.7	-729.5	353.5	291.0	62.49	5.657			
10,100.0	8,016.0	8,250.8	7,986.8	37.3	31.1	88.39	1,818.7	-729.5	273.7	209.6	64.08	4.272			
10,200.0	8,016.0	8,252.8	7,988.7	38.7	31.1	88.98	1,818.8	-729.5	211.8	146.1	65.68	3.225			
10,300.0	8,016.0	8,254.7	7,990.6	40.2	31.1	89.56	1,818.8	-729.5	186.5	119.2	67.30	2.772			
10,300.4	8,016.0	8,254.7	7,990.6	40.2	31.1	89.57	1,818.8	-729.5	186.5	119.2	67.30	2.771	CC, ES, SF		
10,400.0	8,016.0	8,256.6	7,992.5	41.7	31.1	90.15	1,818.8	-729.4	211.5	142.5	68.92	3.068			
10,500.0	8,016.0	8,258.5	7,994.4	43.2	31.1	90.73	1,818.9	-729.4	273.2	202.6	70.54	3.873			
10,600.0	8,016.0	8,260.4	7,996.3	44.7	31.1	91.31	1,818.9	-729.4	352.9	280.7	72.17	4.890			
10,700.0	8,016.0	8,262.2	7,998.2	46.2	31.1	91.89	1,819.0	-729.4	441.0	367.2	73.80	5.975			

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8540-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	-147.44	-408.0	-260.5	484.2					
100.0	100.0	88.0	88.0	0.2	0.2	-147.44	-408.0	-260.5	484.0	483.7	0.31	1,583.739		
200.0	200.0	188.0	188.0	0.3	0.3	-147.44	-408.0	-260.5	484.0	483.4	0.65	739.336		
300.0	300.0	288.0	288.0	0.5	0.5	-147.44	-408.0	-260.5	484.0	483.0	1.00	482.227		
400.0	400.0	388.0	388.0	0.7	0.7	-21.58	-408.0	-260.5	483.2	481.9	1.35	357.207		
500.0	500.0	488.0	488.0	0.9	0.9	-21.71	-408.0	-260.5	480.8	479.1	1.70	282.491		
600.0	599.9	587.9	587.9	1.0	1.0	-21.92	-408.0	-260.5	476.7	474.7	2.05	232.365		
700.0	699.7	687.7	687.7	1.2	1.2	-22.21	-408.0	-260.5	471.1	468.7	2.40	196.086		
800.0	799.4	787.4	787.4	1.4	1.4	-22.61	-408.0	-260.5	463.8	461.1	2.75	168.369		
900.0	898.9	886.9	886.9	1.7	1.5	-23.11	-408.0	-260.5	455.0	451.9	3.11	146.313		
1,000.0	998.3	986.3	986.3	1.9	1.7	-23.72	-408.0	-260.5	444.6	441.1	3.47	128.194		
1,100.0	1,097.4	1,085.4	1,085.4	2.2	1.9	-24.46	-408.0	-260.5	432.7	428.8	3.83	112.918		
1,200.0	1,196.3	1,184.3	1,184.3	2.5	2.1	-25.36	-408.0	-260.5	419.2	415.0	4.20	99.755		
1,300.0	1,295.1	1,283.1	1,283.1	2.8	2.2	-26.31	-408.0	-260.5	405.0	400.4	4.58	88.373		
1,400.0	1,393.8	1,381.8	1,381.8	3.1	2.4	-27.33	-408.0	-260.5	390.9	386.0	4.97	78.652		
1,500.0	1,492.6	1,480.6	1,480.6	3.4	2.6	-28.43	-408.0	-260.5	377.0	371.6	5.36	70.271		
1,600.0	1,591.3	1,579.3	1,579.3	3.7	2.8	-29.61	-408.0	-260.5	363.2	357.4	5.77	62.980		
1,700.0	1,690.1	1,678.1	1,678.1	4.0	2.9	-30.88	-408.0	-260.5	349.5	343.4	6.18	56.587		
1,800.0	1,788.8	1,776.8	1,776.8	4.4	3.1	-32.25	-408.0	-260.5	336.1	329.5	6.60	50.946		
1,900.0	1,887.6	1,875.6	1,875.6	4.7	3.3	-33.74	-408.0	-260.5	322.8	315.8	7.03	45.939		
2,000.0	1,986.3	1,974.3	1,974.3	5.0	3.4	-35.35	-408.0	-260.5	309.8	302.3	7.47	41.476		
2,100.0	2,085.1	2,073.1	2,073.1	5.3	3.6	-37.10	-408.0	-260.5	297.0	289.1	7.92	37.482		
2,200.0	2,183.8	2,171.8	2,171.8	5.6	3.8	-39.00	-408.0	-260.5	284.6	276.2	8.40	33.898		
2,300.0	2,282.6	2,270.6	2,270.6	6.0	4.0	-41.07	-408.0	-260.5	272.5	263.6	8.88	30.676		
2,400.0	2,381.3	2,369.3	2,369.3	6.3	4.1	-43.33	-408.0	-260.5	260.7	251.3	9.39	27.778		
2,500.0	2,480.1	2,468.1	2,468.1	6.6	4.3	-45.80	-408.0	-260.5	249.4	239.5	9.91	25.172		
2,600.0	2,578.8	2,566.8	2,566.8	6.9	4.5	-48.49	-408.0	-260.5	238.7	228.2	10.45	22.832		
2,700.0	2,677.6	2,665.6	2,665.6	7.3	4.7	-51.42	-408.0	-260.5	228.5	217.4	11.02	20.737		
2,800.0	2,776.4	2,764.4	2,764.4	7.6	4.8	-54.62	-408.0	-260.5	218.9	207.3	11.60	18.871		
2,900.0	2,875.1	2,863.1	2,863.1	7.9	5.0	-58.09	-408.0	-260.5	210.1	197.9	12.20	17.220		
3,000.0	2,973.9	2,961.9	2,961.9	8.2	5.2	-61.85	-408.0	-260.5	202.1	189.3	12.82	15.771		
3,100.0	3,072.6	3,060.6	3,060.6	8.5	5.3	-65.88	-408.0	-260.5	195.1	181.7	13.44	14.517		
3,200.0	3,171.4	3,159.4	3,159.4	8.9	5.5	-70.19	-408.0	-260.5	189.2	175.1	14.07	13.447		
3,300.0	3,270.1	3,258.1	3,258.1	9.2	5.7	-74.74	-408.0	-260.5	184.4	169.7	14.69	12.555		
3,400.0	3,368.9	3,356.9	3,356.9	9.5	5.9	-79.50	-408.0	-260.5	180.8	165.5	15.28	11.831		
3,500.0	3,467.6	3,455.6	3,455.6	9.8	6.0	-84.41	-408.0	-260.5	178.6	162.7	15.85	11.267		
3,600.0	3,566.4	3,554.4	3,554.4	10.2	6.2	-89.41	-408.0	-260.5	177.7	161.4	16.38	10.852		
3,611.8	3,578.0	3,566.0	3,566.0	10.2	6.2	-90.00	-408.0	-260.5	177.7	161.3	16.44	10.812 CC, ES		
3,700.0	3,665.1	3,653.1	3,653.1	10.5	6.4	-94.41	-408.0	-260.5	178.3	161.4	16.86	10.575		
3,800.0	3,763.9	3,751.9	3,751.9	10.8	6.5	-99.35	-408.0	-260.5	180.2	162.9	17.28	10.424		
3,900.0	3,862.6	3,850.6	3,850.6	11.2	6.7	-104.15	-408.0	-260.5	183.4	165.8	17.66	10.387 SF		
4,000.0	3,961.4	3,949.4	3,949.4	11.5	6.9	-108.76	-408.0	-260.5	187.9	170.0	17.99	10.449		
4,100.0	4,060.1	4,048.1	4,048.1	11.8	7.1	-113.12	-408.0	-260.5	193.6	175.4	18.27	10.598		
4,200.0	4,158.9	4,146.9	4,146.9	12.1	7.2	-117.23	-408.0	-260.5	200.4	181.9	18.52	10.820		
4,300.0	4,257.6	4,245.6	4,245.6	12.5	7.4	-121.05	-408.0	-260.5	208.1	189.4	18.75	11.104		
4,400.0	4,356.4	4,344.4	4,344.4	12.8	7.6	-124.59	-408.0	-260.5	216.8	197.8	18.95	11.437		
4,500.0	4,455.2	4,443.2	4,443.2	13.1	7.8	-127.85	-408.0	-260.5	226.1	207.0	19.15	11.810		
4,600.0	4,553.9	4,541.9	4,541.9	13.4	7.9	-130.84	-408.0	-260.5	236.2	216.9	19.34	12.214		
4,700.0	4,652.7	4,640.7	4,640.7	13.8	8.1	-133.59	-408.0	-260.5	246.9	227.3	19.53	12.641		
4,800.0	4,751.4	4,739.4	4,739.4	14.1	8.3	-136.11	-408.0	-260.5	258.0	238.3	19.72	13.086		
4,900.0	4,850.2	4,838.2	4,838.2	14.4	8.4	-138.41	-408.0	-260.5	269.7	249.7	19.91	13.542		
5,000.0	4,948.9	4,936.9	4,936.9	14.7	8.6	-140.53	-408.0	-260.5	281.7	261.6	20.11	14.005		

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

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8540-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,047.7	5,035.7	5,035.7	15.1	8.8	-142.47	-408.0	-260.5	294.1	273.7	20.32	14.471		
5,200.0	5,146.4	5,134.4	5,134.4	15.4	9.0	-144.25	-408.0	-260.5	306.8	286.2	20.54	14.937		
5,300.0	5,245.2	5,233.2	5,233.2	15.7	9.1	-145.90	-408.0	-260.5	319.7	299.0	20.76	15.402		
5,400.0	5,343.9	5,331.9	5,331.9	16.0	9.3	-147.41	-408.0	-260.5	332.9	311.9	20.99	15.862		
5,500.0	5,442.7	5,430.7	5,430.7	16.4	9.5	-148.81	-408.0	-260.5	346.3	325.1	21.22	16.317		
5,600.0	5,541.4	5,529.4	5,529.4	16.7	9.7	-150.10	-408.0	-260.5	359.9	338.5	21.47	16.766		
5,700.0	5,640.2	5,628.2	5,628.2	17.0	9.8	-151.30	-408.0	-260.5	373.7	352.0	21.72	17.207		
5,800.0	5,738.9	5,726.9	5,726.9	17.4	10.0	-152.42	-408.0	-260.5	387.6	365.7	21.98	17.639		
5,900.0	5,837.7	5,825.7	5,825.7	17.7	10.2	-153.45	-408.0	-260.5	401.7	379.4	22.24	18.063		
6,000.0	5,936.4	5,924.4	5,924.4	18.0	10.3	-154.42	-408.0	-260.5	415.9	393.4	22.51	18.478		
6,100.0	6,035.2	6,023.2	6,023.2	18.3	10.5	-155.32	-408.0	-260.5	430.1	407.4	22.78	18.884		
6,200.0	6,134.0	6,122.0	6,122.0	18.7	10.7	-156.17	-408.0	-260.5	444.5	421.5	23.06	19.281		
6,300.0	6,232.7	6,220.7	6,220.7	19.0	10.9	-156.96	-408.0	-260.5	459.0	435.7	23.34	19.668		
6,400.0	6,331.5	6,319.5	6,319.5	19.3	11.0	-157.71	-408.0	-260.5	473.6	449.9	23.62	20.047		
6,500.0	6,430.2	6,418.2	6,418.2	19.6	11.2	-158.41	-408.0	-260.5	488.2	464.3	23.91	20.416		

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT F UNIT 1 (EXISTING) - ENCANA WELL - NO SUR													Offset Site Error:	0.0 ft
Survey Program: 8585-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		
11,400.0	8,016.0	7,967.0	7,967.0	57.3	13.9	-90.00	3,313.5	-1,000.6	404.6	335.7	68.82	5.879		
11,500.0	8,016.0	7,967.0	7,967.0	58.9	13.9	-90.00	3,313.5	-1,000.6	308.5	238.0	70.51	4.375		
11,600.0	8,016.0	7,967.0	7,967.0	60.6	13.9	-90.00	3,313.5	-1,000.6	215.9	143.7	72.21	2.991		
11,700.0	8,016.0	7,967.0	7,967.0	62.2	13.9	-90.00	3,313.5	-1,000.6	134.6	60.7	73.91	1.821		
11,792.6	8,016.0	7,967.0	7,967.0	63.7	13.9	-90.00	3,313.5	-1,000.6	97.6	22.2	75.49	1.293 Level 3, CC, ES, SF		
11,800.0	8,016.0	7,967.0	7,967.0	63.8	13.9	-90.00	3,313.5	-1,000.6	97.9	22.3	75.61	1.295 Level 3		
11,900.0	8,016.0	7,967.0	7,967.0	65.5	13.9	-90.00	3,313.5	-1,000.6	145.1	67.8	77.32	1.877		
12,000.0	8,016.0	7,967.0	7,967.0	67.1	13.9	-90.00	3,313.5	-1,000.6	229.2	150.2	79.02	2.901		
12,100.0	8,016.0	7,967.0	7,967.0	68.8	13.9	-90.00	3,313.5	-1,000.6	322.5	241.8	80.73	3.995		
12,200.0	8,016.0	7,967.0	7,967.0	70.5	13.9	-90.00	3,313.5	-1,000.6	418.9	336.5	82.45	5.081		

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - SU														Offset Site Error:	0.0 ft
Survey Program: 248-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
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	-146.28	-408.3	-272.5	490.9						
100.0	100.0	98.0	98.0	0.2	0.2	-146.25	-408.5	-273.0	491.3	491.0	0.32	1,538.536			
200.0	200.0	194.0	194.0	0.3	0.3	-146.14	-409.0	-274.4	492.6	491.9	0.66	748.475			
300.0	300.0	297.7	297.7	0.5	0.5	-145.95	-409.5	-276.7	494.2	493.2	1.01	488.786			
400.0	400.0	412.4	412.3	0.7	0.7	-19.76	-407.4	-278.7	492.9	491.5	1.39	355.259			
500.0	500.0	528.2	527.8	0.9	1.0	-19.06	-399.8	-282.1	486.7	484.9	1.80	270.003			
600.0	599.9	636.2	634.9	1.0	1.2	-17.82	-387.4	-288.1	476.4	474.2	2.25	211.635			
700.0	699.7	745.7	742.8	1.2	1.6	-16.01	-370.3	-296.4	462.7	460.0	2.76	167.575			
800.0	799.4	848.0	842.9	1.4	2.0	-13.92	-351.0	-304.9	445.7	442.4	3.30	135.243			
900.0	898.9	945.1	937.5	1.7	2.4	-11.56	-331.6	-314.5	427.7	423.9	3.85	111.154			
1,000.0	998.3	1,044.9	1,034.6	1.9	2.8	-8.84	-310.4	-324.1	408.0	403.6	4.43	92.033			
1,100.0	1,097.4	1,138.5	1,125.4	2.2	3.2	-5.95	-290.2	-333.7	387.6	382.6	5.02	77.287			
1,200.0	1,196.3	1,232.4	1,216.5	2.5	3.6	-2.68	-269.8	-344.0	367.1	361.5	5.61	65.432			
1,300.0	1,295.1	1,325.3	1,306.6	2.8	4.0	0.94	-249.7	-354.5	347.5	341.3	6.22	55.862			
1,400.0	1,393.8	1,416.3	1,394.9	3.1	4.5	4.88	-230.5	-365.7	330.5	323.7	6.83	48.390			
1,500.0	1,492.6	1,509.1	1,484.7	3.4	4.9	9.33	-211.0	-378.3	316.7	309.2	7.46	42.477			
1,600.0	1,591.3	1,605.9	1,578.4	3.7	5.3	14.34	-190.6	-391.5	305.2	297.1	8.09	37.730			
1,700.0	1,690.1	1,702.2	1,671.8	4.0	5.8	19.59	-170.5	-404.3	296.0	287.3	8.71	33.994			
1,800.0	1,788.8	1,798.5	1,764.9	4.4	6.2	25.18	-150.0	-416.8	289.3	280.0	9.31	31.060			
1,900.0	1,887.6	1,895.3	1,858.6	4.7	6.7	31.06	-129.0	-429.1	285.3	275.5	9.89	28.840			
2,000.0	1,986.3	1,992.4	1,952.7	5.0	7.2	37.08	-107.8	-440.7	283.9	273.5	10.44	27.193			
2,000.6	1,986.9	1,993.0	1,953.3	5.0	7.2	37.11	-107.6	-440.8	283.9	273.5	10.44	27.185			
2,100.0	2,085.1	2,087.3	2,044.5	5.3	7.6	43.08	-86.3	-451.7	285.6	274.6	10.94	26.106			
2,200.0	2,183.8	2,182.0	2,135.9	5.6	8.1	49.02	-64.6	-462.7	290.9	279.5	11.38	25.557			
2,300.0	2,282.6	2,277.6	2,228.5	6.0	8.5	54.67	-43.1	-473.9	299.3	287.5	11.76	25.440			
2,400.0	2,381.3	2,371.9	2,319.8	6.3	9.0	59.85	-22.4	-484.9	310.4	298.3	12.10	25.646			
2,500.0	2,480.1	2,465.1	2,409.9	6.6	9.4	64.69	-1.2	-496.2	324.9	312.5	12.41	26.175			
2,600.0	2,578.8	2,561.2	2,502.8	6.9	9.9	69.26	20.7	-507.7	341.6	328.9	12.69	26.911			
2,700.0	2,677.6	2,657.2	2,595.6	7.3	10.3	73.30	41.9	-519.3	360.0	347.0	12.97	27.755			
2,800.0	2,776.4	2,753.1	2,688.5	7.6	10.8	76.97	63.0	-530.7	379.8	366.6	13.25	28.664			
2,900.0	2,875.1	2,849.7	2,782.1	7.9	11.2	80.30	84.0	-542.0	400.7	387.2	13.54	29.589			
3,000.0	2,973.9	2,945.3	2,874.8	8.2	11.7	83.28	104.6	-553.0	422.6	408.7	13.86	30.499			
3,100.0	3,072.6	3,040.1	2,966.7	8.5	12.1	85.94	125.1	-564.0	445.5	431.3	14.19	31.400			
3,200.0	3,171.4	3,135.8	3,059.5	8.9	12.5	88.35	145.7	-575.2	469.3	454.8	14.55	32.263			
3,300.0	3,270.1	3,234.6	3,155.3	9.2	13.0	90.63	166.8	-586.4	493.6	478.7	14.93	33.061			
8,600.0	8,016.0	8,124.4	8,006.6	22.4	22.5	86.78	479.6	-724.4	414.7	378.6	36.05	11.501			
8,700.0	8,016.0	8,127.1	8,009.3	22.7	22.5	87.56	479.7	-724.4	331.2	294.6	36.63	9.042			
8,800.0	8,016.0	8,129.9	8,012.1	23.2	22.5	88.33	479.8	-724.4	259.6	222.3	37.37	6.948			
8,900.0	8,016.0	8,132.6	8,014.9	23.8	22.5	89.11	479.8	-724.4	212.4	174.1	38.26	5.552			
8,961.5	8,016.0	8,134.4	8,016.6	24.2	22.5	89.60	479.9	-724.4	203.3	164.4	38.88	5.229 CC, ES, SF			
9,000.0	8,016.0	8,135.4	8,017.6	24.5	22.5	89.90	479.9	-724.4	206.9	167.6	39.27	5.269			
9,100.0	8,016.0	8,138.2	8,020.4	25.3	22.5	90.68	480.0	-724.3	245.9	205.6	40.38	6.091			
9,200.0	8,016.0	8,141.0	8,023.2	26.3	22.5	91.47	480.1	-724.3	313.3	271.7	41.57	7.536			
9,300.0	8,016.0	8,143.8	8,026.0	27.2	22.5	92.26	480.2	-724.3	394.7	351.9	42.84	9.214			
9,400.0	8,016.0	8,146.6	8,028.8	28.3	22.6	93.05	480.2	-724.3	483.1	439.0	44.16	10.941			

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 14-29D (EXISTING) - SYNERGY WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 126-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		
900.0	898.9	879.0	878.6	1.7	1.6	-19.24	-425.6	-309.2	496.8	493.7	3.07	161.742		
1,000.0	998.3	982.8	982.3	1.9	1.8	-19.62	-428.5	-312.2	490.0	486.6	3.43	142.689		
1,100.0	1,097.4	1,086.0	1,085.5	2.2	2.0	-20.19	-431.0	-314.0	480.7	476.9	3.80	126.544		
1,200.0	1,196.3	1,178.0	1,177.4	2.5	2.1	-20.83	-433.7	-315.5	470.2	466.1	4.15	113.314		
1,300.0	1,295.1	1,265.2	1,264.4	2.8	2.3	-21.35	-437.3	-318.8	461.0	456.5	4.50	102.439		
1,400.0	1,393.8	1,353.5	1,352.4	3.1	2.5	-21.81	-442.6	-323.9	454.4	449.6	4.86	93.579		
1,500.0	1,492.6	1,442.0	1,440.5	3.4	2.7	-22.32	-449.9	-329.9	450.3	445.1	5.22	86.337		
1,600.0	1,591.3	1,530.2	1,527.9	3.7	3.0	-22.80	-458.9	-337.2	448.8	443.3	5.58	80.438		
1,606.2	1,597.4	1,535.6	1,533.3	3.7	3.0	-22.82	-459.5	-337.8	448.8	443.2	5.60	80.115		
1,700.0	1,690.1	1,618.6	1,615.2	4.0	3.2	-23.15	-469.3	-346.7	450.0	444.0	5.95	75.663		
1,800.0	1,788.8	1,708.8	1,703.8	4.4	3.5	-23.43	-481.5	-357.9	453.6	447.2	6.32	71.758		
1,900.0	1,887.6	1,802.1	1,795.2	4.7	3.8	-23.62	-495.2	-371.0	459.0	452.2	6.70	68.470		
2,000.0	1,986.3	1,893.5	1,884.4	5.0	4.2	-23.71	-509.3	-385.1	465.8	458.7	7.08	65.754		
2,100.0	2,085.1	1,986.4	1,974.7	5.3	4.6	-23.76	-524.9	-400.6	474.4	467.0	7.47	63.533		
2,200.0	2,183.8	2,085.6	2,070.9	5.6	5.0	-23.84	-542.4	-417.2	483.9	476.0	7.87	61.521		
2,300.0	2,282.6	2,180.5	2,162.9	6.0	5.4	-23.97	-559.5	-432.8	493.5	485.2	8.26	59.766		
6,100.0	6,035.2	6,127.7	6,040.7	18.3	17.5	-32.75	-946.8	-862.5	487.8	462.2	25.59	19.064		
6,200.0	6,134.0	6,226.7	6,139.6	18.7	17.6	-33.76	-945.9	-862.3	473.6	447.4	26.21	18.069		
6,300.0	6,232.7	6,325.5	6,238.5	19.0	17.7	-34.78	-944.8	-862.5	459.5	432.7	26.86	17.111		
6,400.0	6,331.5	6,424.4	6,337.4	19.3	17.8	-35.78	-943.4	-863.2	445.6	418.1	27.50	16.202		
6,500.0	6,430.2	6,521.2	6,434.1	19.6	17.9	-36.78	-942.1	-864.3	431.9	403.8	28.15	15.345		
6,600.0	6,529.0	6,618.0	6,530.9	20.0	18.0	-37.89	-941.4	-865.2	418.9	390.1	28.82	14.534		
6,700.0	6,627.7	6,718.2	6,631.2	20.3	18.1	-39.13	-940.7	-866.0	406.1	376.6	29.54	13.747		
6,800.0	6,726.5	6,818.3	6,731.3	20.6	18.2	-40.46	-939.7	-866.7	393.2	362.9	30.29	12.980		
6,900.0	6,825.2	6,918.1	6,831.0	21.0	18.3	-41.90	-938.5	-867.1	380.1	349.1	31.07	12.235		
7,000.0	6,924.0	7,017.9	6,930.8	21.3	18.4	-43.46	-937.0	-867.4	367.1	335.2	31.89	11.513		
7,100.0	7,022.7	7,117.9	7,030.8	21.6	18.5	-45.08	-935.1	-867.9	354.0	321.2	32.73	10.815		
7,200.0	7,121.5	7,217.6	7,130.4	21.9	18.6	-46.76	-932.7	-868.8	340.8	307.2	33.58	10.147		
7,300.0	7,220.2	7,316.6	7,229.4	22.3	18.7	-48.59	-930.3	-869.5	327.7	293.2	34.47	9.506		
7,400.0	7,319.0	7,415.5	7,328.3	22.6	18.8	-50.62	-927.7	-869.8	314.8	279.4	35.41	8.892		
7,500.0	7,417.8	7,514.4	7,427.1	22.9	18.9	-66.62	-925.0	-869.9	302.8	266.4	36.37	8.326		
7,546.1	7,463.5	7,560.1	7,472.8	23.0	19.0	-102.25	-923.8	-869.9	300.9	264.2	36.64	8.212 CC, ES, SF		
7,600.0	7,516.8	7,612.8	7,525.5	23.1	19.0	-134.76	-922.4	-869.9	303.6	266.9	36.69	8.272		
7,700.0	7,613.7	7,708.8	7,621.5	23.1	19.1	-159.89	-920.1	-869.5	322.5	286.5	36.04	8.949		
7,800.0	7,705.5	7,799.5	7,712.1	23.0	19.2	-169.84	-918.4	-869.0	358.9	324.5	34.42	10.429		
7,900.0	7,789.6	7,882.0	7,794.7	22.9	19.3	-175.33	-917.3	-868.8	411.5	379.6	31.94	12.884		
8,000.0	7,863.2	7,954.8	7,867.5	22.6	19.4	-179.14	-916.7	-868.7	478.4	449.5	28.85	16.580		

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL - S													Offset Site Error:	0.0 ft
Survey Program: 248-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	2.1	2.1	0.0	0.0	-150.18	-409.1	-234.4	471.5					
100.0	100.0	104.6	104.6	0.2	0.2	-150.16	-408.7	-234.5	471.2	470.9	0.32	1,449.897		
200.0	200.0	207.0	207.0	0.3	0.3	-150.09	-407.7	-234.6	470.4	469.7	0.67	702.863		
300.0	300.0	308.7	308.7	0.5	0.5	-150.08	-406.6	-233.9	469.1	468.1	1.02	460.071		
400.0	400.0	399.0	398.9	0.7	0.7	-24.66	-407.7	-230.5	467.6	466.2	1.36	344.547		
500.0	500.0	489.0	488.6	0.9	0.9	-25.63	-412.6	-225.3	467.2	465.5	1.72	271.975		
600.0	599.9	586.0	584.9	1.0	1.1	-27.21	-420.6	-217.2	466.7	464.5	2.13	219.080		
700.0	699.7	690.9	688.6	1.2	1.4	-29.43	-430.3	-205.2	464.7	462.1	2.61	178.284		
800.0	799.4	796.7	792.9	1.4	1.7	-32.18	-439.5	-189.8	460.2	457.1	3.13	147.253		
900.0	898.9	893.6	888.1	1.7	2.1	-35.08	-447.7	-173.8	454.4	450.8	3.65	124.382		
1,000.0	998.3	991.0	983.7	1.9	2.4	-38.31	-456.4	-156.9	448.6	444.4	4.19	107.006		
1,100.0	1,097.4	1,086.0	1,077.0	2.2	2.8	-41.61	-464.5	-140.9	442.9	438.1	4.73	93.592		
1,200.0	1,196.3	1,180.7	1,169.9	2.5	3.2	-45.17	-473.1	-124.5	437.9	432.6	5.32	82.387		
1,300.0	1,295.1	1,274.1	1,260.8	2.8	3.6	-49.18	-482.2	-105.3	434.5	428.6	5.94	73.212		
1,352.7	1,347.1	1,321.1	1,306.4	2.9	3.8	-51.32	-486.9	-94.9	434.0	427.7	6.26	69.341 CC, ES		
1,400.0	1,393.8	1,360.9	1,345.0	3.1	4.0	-53.14	-491.3	-86.0	434.5	428.0	6.54	66.466		
1,500.0	1,492.6	1,448.1	1,429.2	3.4	4.4	-57.09	-502.2	-66.5	439.0	431.9	7.13	61.611		
1,600.0	1,591.3	1,540.8	1,518.8	3.7	4.8	-61.13	-514.7	-46.2	447.0	439.3	7.70	58.051		
1,700.0	1,690.1	1,640.4	1,615.4	4.0	5.3	-65.16	-527.9	-25.7	457.0	448.7	8.26	55.331		
1,800.0	1,788.8	1,741.0	1,713.2	4.4	5.7	-69.00	-539.8	-5.8	467.6	458.8	8.79	53.218		
1,900.0	1,887.6	1,842.4	1,812.1	4.7	6.1	-72.75	-550.6	14.3	479.1	469.8	9.31	51.461		
2,000.0	1,986.3	1,930.7	1,897.9	5.0	6.6	-76.06	-558.9	33.3	492.0	482.2	9.79	50.264 SF		

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29HD (EXISTING) - SYNERGY WELL - PLA													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		
900.0	898.9	886.9	886.9	1.7	1.5	-15.94	-408.4	-332.8	496.5	493.4	3.10	160.242		
1,000.0	998.3	986.3	986.3	1.9	1.7	-16.34	-408.4	-332.8	485.6	482.2	3.45	140.778		
1,100.0	1,097.4	1,079.9	1,079.8	2.2	1.9	-16.67	-408.1	-333.8	473.6	469.8	3.79	124.863		
1,200.0	1,196.3	1,172.7	1,172.6	2.5	2.1	-16.73	-407.2	-337.8	461.3	457.2	4.14	111.412		
1,300.0	1,295.1	1,265.7	1,265.3	2.8	2.2	-16.45	-405.7	-344.8	449.4	444.9	4.50	99.860		
1,400.0	1,393.8	1,358.8	1,357.9	3.1	2.4	-15.79	-403.5	-354.6	438.9	434.0	4.87	90.076		
1,500.0	1,492.6	1,451.8	1,449.9	3.4	2.7	-14.74	-400.6	-367.4	430.0	424.7	5.26	81.728		
1,600.0	1,591.3	1,544.4	1,541.1	3.7	2.9	-13.30	-397.1	-383.1	422.7	417.0	5.67	74.587		
1,700.0	1,690.1	1,636.6	1,631.3	4.0	3.2	-11.46	-393.0	-401.5	417.4	411.3	6.09	68.508		
1,800.0	1,788.8	1,730.6	1,722.8	4.4	3.5	-9.23	-388.1	-423.0	414.2	407.6	6.54	63.369		
1,900.0	1,887.6	1,829.0	1,818.2	4.7	3.9	-6.79	-383.0	-446.0	412.0	405.0	6.99	58.930		
2,000.0	1,986.3	1,927.3	1,913.7	5.0	4.3	-4.32	-377.8	-469.1	410.7	403.2	7.45	55.158		
2,100.0	2,085.1	2,025.7	2,009.2	5.3	4.7	-1.85	-372.6	-492.1	410.1	402.2	7.89	51.954		
2,120.8	2,105.7	2,046.2	2,029.1	5.4	4.8	-1.34	-371.5	-496.9	410.1	402.1	7.99	51.348		
2,200.0	2,183.8	2,124.1	2,104.7	5.6	5.1	0.62	-367.5	-515.2	410.4	402.0	8.34	49.226		
2,300.0	2,282.6	2,222.4	2,200.2	6.0	5.5	3.09	-362.3	-538.2	411.4	402.6	8.77	46.899		
2,400.0	2,381.3	2,320.8	2,295.7	6.3	6.0	5.54	-357.1	-561.3	413.2	404.0	9.20	44.906		
2,500.0	2,480.1	2,419.2	2,391.2	6.6	6.4	7.96	-351.9	-584.3	415.8	406.1	9.62	43.196		
2,600.0	2,578.8	2,517.5	2,486.6	6.9	6.8	10.36	-346.8	-607.4	419.1	409.0	10.04	41.724		
2,700.0	2,677.6	2,615.9	2,582.1	7.3	7.3	12.71	-341.6	-630.4	423.2	412.7	10.46	40.454		
2,800.0	2,776.4	2,714.3	2,677.6	7.6	7.7	15.01	-336.4	-653.5	428.0	417.1	10.87	39.354		
2,900.0	2,875.1	2,812.6	2,773.1	7.9	8.1	17.26	-331.2	-676.5	433.4	422.2	11.29	38.400		
3,000.0	2,973.9	2,911.0	2,868.6	8.2	8.6	19.46	-326.1	-699.6	439.6	427.9	11.70	37.571		
3,100.0	3,072.6	3,009.3	2,964.1	8.5	9.0	21.59	-320.9	-722.7	446.4	434.3	12.11	36.848		
3,200.0	3,171.4	3,107.7	3,059.6	8.9	9.5	23.65	-315.7	-745.7	453.8	441.3	12.53	36.215		
3,300.0	3,270.1	3,206.1	3,155.0	9.2	9.9	25.65	-310.5	-768.8	461.8	448.9	12.95	35.660		
3,400.0	3,368.9	3,304.4	3,250.5	9.5	10.4	27.58	-305.4	-791.8	470.4	457.0	13.37	35.171		
3,500.0	3,467.6	3,402.8	3,346.0	9.8	10.8	29.45	-300.2	-814.9	479.4	465.6	13.80	34.739		
3,600.0	3,566.4	3,501.2	3,441.5	10.2	11.3	31.24	-295.0	-837.9	489.0	474.8	14.24	34.353		
3,700.0	3,665.1	3,599.5	3,537.0	10.5	11.7	32.96	-289.9	-861.0	499.1	484.4	14.67	34.008		
8,000.0	7,863.2	7,968.1	7,851.2	22.6	22.9	-61.88	-186.2	-1,323.0	480.0	449.1	30.88	15.544		
8,100.0	7,924.2	8,029.1	7,912.2	22.4	22.9	-73.99	-186.2	-1,323.0	436.8	406.8	29.99	14.564		
8,200.0	7,970.8	8,075.6	7,958.8	22.2	23.0	-84.02	-186.2	-1,323.0	404.2	374.6	29.66	13.629		
8,300.0	8,001.4	8,106.2	7,989.4	22.1	23.0	-89.98	-186.2	-1,323.0	391.6	362.2	29.40	13.319 ES, SF		
8,300.6	8,001.5	8,106.4	7,989.5	22.1	23.0	-90.00	-186.2	-1,323.0	391.6	362.2	29.40	13.320 CC		
8,400.0	8,015.2	8,120.1	8,003.2	22.1	23.0	-90.82	-186.2	-1,323.0	404.8	375.5	29.29	13.820		
8,500.0	8,016.0	8,120.8	8,004.0	22.1	23.0	-90.00	-186.2	-1,323.0	442.4	413.0	29.44	15.027		
8,600.0	8,016.0	8,120.8	8,004.0	22.4	23.0	-90.00	-186.2	-1,323.0	497.7	467.9	29.78	16.709		



# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLAN														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
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	-146.28	-408.4	-272.5	491.1						
100.0	100.0	88.0	88.0	0.2	0.2	-146.28	-408.4	-272.5	491.0	490.7	0.31	1,607.331			
200.0	200.0	188.0	188.0	0.3	0.3	-146.28	-408.4	-272.5	491.0	490.3	0.65	750.147			
300.0	300.0	288.0	288.0	0.5	0.5	-146.28	-408.4	-272.5	491.0	490.0	1.00	489.226			
400.0	400.0	388.0	388.0	0.7	0.7	-20.42	-408.4	-272.5	490.2	488.8	1.35	362.380			
500.0	500.0	488.0	488.0	0.9	0.9	-20.53	-408.4	-272.5	487.7	486.0	1.70	286.592			
600.0	599.9	587.9	587.9	1.0	1.0	-20.73	-408.4	-272.5	483.6	481.6	2.05	235.765			
700.0	699.7	687.7	687.7	1.2	1.2	-21.01	-408.4	-272.5	477.9	475.5	2.40	198.992			
800.0	799.4	787.4	787.4	1.4	1.4	-21.38	-408.4	-272.5	470.6	467.8	2.75	170.910			
900.0	898.9	886.9	886.9	1.7	1.5	-21.85	-408.4	-272.5	461.7	458.6	3.11	148.576			
1,000.0	998.3	986.3	986.3	1.9	1.7	-22.42	-408.4	-272.5	451.2	447.7	3.46	130.235			
1,100.0	1,097.4	1,076.7	1,076.7	2.2	1.9	-23.14	-409.4	-272.3	440.0	436.2	3.81	115.445			
1,200.0	1,196.3	1,165.7	1,165.6	2.5	2.0	-24.22	-413.1	-271.6	429.6	425.4	4.17	103.115			
1,300.0	1,295.1	1,254.6	1,254.3	2.8	2.2	-25.59	-419.5	-270.3	420.8	416.3	4.54	92.762			
1,400.0	1,393.8	1,343.4	1,342.6	3.1	2.4	-27.24	-428.6	-268.5	414.8	409.9	4.92	84.258			
1,500.0	1,492.6	1,431.9	1,430.3	3.4	2.6	-29.15	-440.3	-266.2	411.7	406.4	5.33	77.284			
1,548.9	1,540.8	1,475.0	1,472.8	3.6	2.7	-30.16	-446.9	-264.9	411.3	405.8	5.53	74.356 CC, ES			
1,600.0	1,591.3	1,520.0	1,517.1	3.7	2.8	-31.27	-454.5	-263.4	411.8	406.0	5.75	71.603			
1,700.0	1,690.1	1,607.4	1,602.8	4.0	3.1	-33.57	-471.3	-260.1	415.1	408.9	6.19	67.042			
1,800.0	1,788.8	1,694.0	1,687.3	4.4	3.4	-35.98	-490.5	-256.3	422.0	415.3	6.65	63.456			
1,900.0	1,887.6	1,788.1	1,778.4	4.7	3.8	-38.63	-513.3	-251.8	431.8	424.6	7.14	60.495			
2,000.0	1,986.3	1,885.4	1,872.7	5.0	4.1	-41.26	-537.0	-247.1	442.6	435.0	7.64	57.966			
2,100.0	2,085.1	1,982.7	1,966.9	5.3	4.5	-43.77	-560.7	-242.4	454.4	446.3	8.14	55.856			
2,200.0	2,183.8	2,080.0	2,061.2	5.6	4.9	-46.14	-584.4	-237.7	467.1	458.5	8.64	54.089			
2,300.0	2,282.6	2,177.3	2,155.4	6.0	5.4	-48.40	-608.1	-233.0	480.5	471.4	9.13	52.605			
2,400.0	2,381.3	2,274.6	2,249.7	6.3	5.8	-50.53	-631.7	-228.4	494.6	485.0	9.63	51.352 SF			

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PLA														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-150.34	-408.7	-232.8	470.5						
100.0	100.0	89.0	89.0	0.2	0.2	-150.34	-408.7	-232.8	470.3	470.0	0.31	1,531.024			
200.0	200.0	189.0	189.0	0.3	0.3	-150.34	-408.7	-232.8	470.3	469.7	0.66	716.701	CC, ES		
300.0	300.0	279.0	279.0	0.5	0.5	-150.42	-409.8	-232.6	471.3	470.3	0.99	476.959			
400.0	400.0	367.6	367.5	0.7	0.7	-24.84	-413.5	-231.9	473.8	472.5	1.32	357.907			
500.0	500.0	456.8	456.5	0.9	0.8	-25.45	-420.0	-230.8	477.2	475.5	1.67	286.421			
600.0	599.9	557.6	556.8	1.0	1.1	-26.55	-429.5	-227.4	480.0	477.9	2.05	233.693			
700.0	699.7	657.6	655.9	1.2	1.3	-28.15	-440.2	-220.9	481.3	478.8	2.47	194.704			
800.0	799.4	756.3	753.4	1.4	1.6	-30.23	-452.2	-211.3	481.5	478.5	2.93	164.544			
900.0	898.9	853.5	848.9	1.7	2.0	-32.77	-465.3	-198.8	480.9	477.5	3.42	140.678			
1,000.0	998.3	948.8	942.0	1.9	2.4	-35.74	-479.3	-183.7	480.3	476.3	3.95	121.593			
1,061.1	1,058.8	1,006.1	997.6	2.1	2.6	-37.75	-488.4	-173.3	480.1	475.8	4.29	111.947			
1,100.0	1,097.4	1,042.1	1,032.4	2.2	2.8	-39.11	-494.3	-166.2	480.2	475.7	4.52	106.289			
1,200.0	1,196.3	1,133.0	1,119.8	2.5	3.3	-42.82	-509.9	-146.5	481.5	476.3	5.12	94.040			
1,300.0	1,295.1	1,221.6	1,204.1	2.8	3.8	-46.76	-526.1	-124.8	485.3	479.6	5.75	84.474			
1,400.0	1,393.8	1,308.2	1,285.7	3.1	4.3	-50.82	-543.0	-101.3	493.2	486.8	6.38	77.305	SF		

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3A-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	-8.4	8.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-8.4	8.4	8.1	0.30	27.668		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-8.4	8.4	7.7	0.65	12.872	CC, ES	
300.0	300.0	299.8	299.8	0.5	0.5	-90.16	0.0	-9.3	9.3	8.3	1.00	9.253		
400.0	400.0	399.6	399.6	0.7	0.7	37.84	-0.1	-11.9	11.2	9.8	1.35	8.281		
500.0	500.0	499.4	499.3	0.9	0.9	43.27	-0.3	-16.2	13.5	11.8	1.70	7.946		
600.0	599.9	599.1	598.8	1.0	1.1	50.09	-0.5	-22.3	16.5	14.4	2.06	7.994		
700.0	699.7	698.7	698.1	1.2	1.3	57.03	-0.9	-30.1	20.2	17.8	2.44	8.297		
800.0	799.4	798.2	797.1	1.4	1.5	63.38	-1.2	-39.6	24.9	22.0	2.84	8.761		
900.0	898.9	897.6	895.9	1.7	1.8	68.86	-1.7	-50.8	30.5	27.3	3.28	9.309		
1,000.0	998.3	996.9	994.3	1.9	2.0	73.45	-2.2	-63.7	37.2	33.4	3.76	9.889		
1,100.0	1,097.4	1,096.0	1,092.4	2.2	2.3	77.26	-2.8	-78.3	44.9	40.6	4.29	10.464		
1,200.0	1,196.3	1,195.0	1,190.0	2.5	2.7	80.40	-3.4	-94.5	53.6	48.8	4.87	11.010		
1,300.0	1,295.1	1,294.5	1,288.0	2.8	3.0	82.95	-4.1	-111.8	63.0	57.5	5.47	11.507		
1,400.0	1,393.8	1,394.0	1,386.0	3.1	3.3	84.84	-4.8	-129.1	72.4	66.3	6.09	11.899		
1,500.0	1,492.6	1,493.6	1,484.0	3.4	3.7	86.30	-5.5	-146.3	81.9	75.2	6.71	12.216		
1,600.0	1,591.3	1,593.1	1,582.1	3.7	4.0	87.45	-6.2	-163.6	91.4	84.1	7.33	12.475		
1,700.0	1,690.1	1,692.6	1,680.1	4.0	4.3	88.39	-6.8	-180.9	101.0	93.1	7.96	12.691		
1,800.0	1,788.8	1,792.2	1,778.1	4.4	4.7	89.16	-7.5	-198.1	110.6	102.0	8.59	12.872		
1,900.0	1,887.6	1,891.7	1,876.1	4.7	5.0	89.81	-8.2	-215.4	120.2	111.0	9.23	13.028		
2,000.0	1,986.3	1,991.2	1,974.1	5.0	5.4	90.36	-8.9	-232.7	129.8	120.0	9.86	13.162		
2,100.0	2,085.1	2,090.7	2,072.1	5.3	5.7	90.84	-9.6	-250.0	139.5	129.0	10.50	13.278		
2,200.0	2,183.8	2,190.3	2,170.1	5.6	6.1	91.26	-10.3	-267.2	149.1	138.0	11.14	13.381		
2,300.0	2,282.6	2,289.8	2,268.2	6.0	6.4	91.62	-11.0	-284.5	158.7	147.0	11.78	13.471		
2,400.0	2,381.3	2,389.3	2,366.2	6.3	6.8	91.95	-11.7	-301.8	168.4	156.0	12.43	13.552		
2,500.0	2,480.1	2,488.9	2,464.2	6.6	7.1	92.23	-12.3	-319.0	178.1	165.0	13.07	13.625		
2,600.0	2,578.8	2,588.4	2,562.2	6.9	7.5	92.49	-13.0	-336.3	187.7	174.0	13.71	13.690		
2,700.0	2,677.6	2,687.9	2,660.2	7.3	7.8	92.72	-13.7	-353.6	197.4	183.0	14.36	13.749		
2,800.0	2,776.4	2,787.4	2,758.2	7.6	8.2	92.94	-14.4	-370.9	207.0	192.0	15.00	13.802		
2,900.0	2,875.1	2,887.0	2,856.3	7.9	8.5	93.13	-15.1	-388.1	216.7	201.1	15.65	13.851		
3,000.0	2,973.9	2,986.5	2,954.3	8.2	8.9	93.31	-15.8	-405.4	226.4	210.1	16.29	13.896		
3,100.0	3,072.6	3,086.0	3,052.3	8.5	9.2	93.47	-16.5	-422.7	236.1	219.1	16.94	13.938		
3,200.0	3,171.4	3,185.6	3,150.3	8.9	9.6	93.62	-17.2	-439.9	245.7	228.2	17.58	13.976		
3,300.0	3,270.1	3,285.1	3,248.3	9.2	9.9	93.75	-17.8	-457.2	255.4	237.2	18.23	14.011		
3,400.0	3,368.9	3,384.6	3,346.3	9.5	10.3	93.88	-18.5	-474.5	265.1	246.2	18.88	14.044		
3,500.0	3,467.6	3,484.1	3,444.4	9.8	10.6	94.00	-19.2	-491.8	274.8	255.2	19.52	14.075		
3,600.0	3,566.4	3,583.7	3,542.4	10.2	11.0	94.11	-19.9	-509.0	284.4	264.3	20.17	14.103		
3,700.0	3,665.1	3,683.2	3,640.4	10.5	11.3	94.21	-20.6	-526.3	294.1	273.3	20.82	14.130		
3,800.0	3,763.9	3,782.7	3,738.4	10.8	11.7	94.31	-21.3	-543.6	303.8	282.3	21.46	14.155		
3,900.0	3,862.6	3,882.3	3,836.4	11.2	12.0	94.40	-22.0	-560.9	313.5	291.4	22.11	14.178		
4,000.0	3,961.4	3,981.8	3,934.4	11.5	12.4	94.49	-22.6	-578.1	323.2	300.4	22.76	14.200		
4,100.0	4,060.1	4,081.3	4,032.5	11.8	12.7	94.57	-23.3	-595.4	332.9	309.5	23.41	14.221		
4,200.0	4,158.9	4,180.8	4,130.5	12.1	13.1	94.64	-24.0	-612.7	342.5	318.5	24.05	14.241		
4,300.0	4,257.6	4,280.4	4,228.5	12.5	13.4	94.71	-24.7	-629.9	352.2	327.5	24.70	14.259		
4,400.0	4,356.4	4,379.9	4,326.5	12.8	13.8	94.78	-25.4	-647.2	361.9	336.6	25.35	14.277		
4,500.0	4,455.2	4,479.4	4,424.5	13.1	14.1	94.85	-26.1	-664.5	371.6	345.6	26.00	14.294		
4,600.0	4,553.9	4,579.0	4,522.5	13.4	14.5	94.91	-26.8	-681.8	381.3	354.6	26.65	14.309		
4,700.0	4,652.7	4,678.5	4,620.6	13.8	14.8	94.96	-27.5	-699.0	391.0	363.7	27.29	14.325		
4,800.0	4,751.4	4,778.0	4,718.6	14.1	15.2	95.02	-28.1	-716.3	400.7	372.7	27.94	14.339		
4,900.0	4,850.2	4,877.5	4,816.6	14.4	15.5	95.07	-28.8	-733.6	410.3	381.8	28.59	14.353		
5,000.0	4,948.9	4,977.1	4,914.6	14.7	15.9	95.12	-29.5	-750.8	420.0	390.8	29.24	14.366		
5,100.0	5,047.7	5,076.6	5,012.6	15.1	16.2	95.17	-30.2	-768.1	429.7	399.8	29.89	14.378		

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

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3A-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,146.4	5,176.1	5,110.6	15.4	16.6	95.22	-30.9	-785.4	439.4	408.9	30.54	14.390		
5,300.0	5,245.2	5,275.7	5,208.7	15.7	16.9	95.26	-31.6	-802.7	449.1	417.9	31.18	14.401		
5,400.0	5,343.9	5,375.2	5,306.7	16.0	17.3	95.30	-32.3	-819.9	458.8	427.0	31.83	14.412		
5,500.0	5,442.7	5,474.7	5,404.7	16.4	17.6	95.34	-32.9	-837.2	468.5	436.0	32.48	14.423		
5,600.0	5,541.4	5,574.3	5,502.7	16.7	18.0	95.38	-33.6	-854.5	478.2	445.0	33.13	14.433		
5,700.0	5,640.2	5,673.8	5,600.7	17.0	18.3	95.42	-34.3	-871.7	487.9	454.1	33.78	14.442		
5,800.0	5,738.9	5,773.3	5,698.7	17.4	18.7	95.45	-35.0	-889.0	497.5	463.1	34.43	14.452		
8,500.0	8,016.0	7,878.0	7,689.4	22.1	26.2	-43.48	203.7	-1,239.8	485.1	459.9	25.15	19.290		
8,600.0	8,016.0	7,933.9	7,718.2	22.4	26.4	-46.63	251.3	-1,244.9	452.2	426.0	26.26	17.220		
8,700.0	8,016.0	8,000.0	7,746.2	22.7	26.8	-49.93	310.9	-1,249.8	428.2	400.6	27.62	15.504		
8,800.0	8,016.0	8,065.6	7,767.1	23.2	27.1	-52.55	372.9	-1,253.5	412.3	383.2	29.05	14.190		
8,900.0	8,016.0	8,139.5	7,782.2	23.8	27.6	-54.53	445.2	-1,256.2	403.6	372.9	30.63	13.174		
8,994.4	8,016.0	8,212.0	7,787.9	24.5	28.0	-55.33	517.4	-1,257.2	401.0	368.9	32.13	12.482		
9,000.0	8,016.0	8,216.3	7,788.0	24.5	28.1	-55.34	521.7	-1,257.2	401.0	368.8	32.21	12.450		
9,100.0	8,016.0	8,314.7	7,788.0	25.3	28.8	-55.42	620.1	-1,257.2	401.7	367.7	34.00	11.816		
9,200.0	8,016.0	8,414.7	7,788.0	26.3	29.6	-55.49	720.1	-1,257.2	402.4	366.5	35.94	11.197		
9,300.0	8,016.0	8,514.7	7,788.0	27.2	30.5	-55.56	820.1	-1,257.2	403.1	365.1	38.01	10.605		
9,400.0	8,016.0	8,614.7	7,788.0	28.3	31.4	-55.63	920.1	-1,257.2	403.9	363.7	40.19	10.048		
9,500.0	8,016.0	8,714.7	7,788.0	29.5	32.4	-55.70	1,020.1	-1,257.2	404.6	362.1	42.47	9.527		
9,600.0	8,016.0	8,814.7	7,788.0	30.6	33.5	-55.77	1,120.1	-1,257.2	405.3	360.5	44.82	9.043		
9,700.0	8,016.0	8,914.7	7,788.0	31.9	34.7	-55.84	1,220.1	-1,257.2	406.0	358.8	47.24	8.595		
9,800.0	8,016.0	9,014.7	7,788.0	33.2	35.8	-55.91	1,320.1	-1,257.2	406.8	357.0	49.72	8.181		
9,900.0	8,016.0	9,114.7	7,788.0	34.5	37.1	-55.98	1,420.1	-1,257.2	407.5	355.2	52.25	7.798		
10,000.0	8,016.0	9,214.6	7,788.0	35.9	38.4	-56.04	1,520.1	-1,257.2	408.2	353.4	54.83	7.445		
10,100.0	8,016.0	9,314.6	7,788.0	37.3	39.7	-56.11	1,620.1	-1,257.2	408.9	351.5	57.45	7.119		
10,200.0	8,016.0	9,414.6	7,788.0	38.7	41.0	-56.18	1,720.1	-1,257.2	409.7	349.6	60.10	6.817		
10,300.0	8,016.0	9,514.6	7,788.0	40.2	42.4	-56.25	1,820.1	-1,257.2	410.4	347.6	62.78	6.537		
10,400.0	8,016.0	9,614.6	7,788.0	41.7	43.8	-56.32	1,920.1	-1,257.2	411.1	345.6	65.49	6.277		
10,500.0	8,016.0	9,714.6	7,788.0	43.2	45.2	-56.38	2,020.1	-1,257.2	411.8	343.6	68.23	6.036		
10,600.0	8,016.0	9,814.6	7,788.0	44.7	46.7	-56.45	2,120.1	-1,257.2	412.6	341.6	70.98	5.812		
10,700.0	8,016.0	9,914.6	7,788.0	46.2	48.1	-56.52	2,220.1	-1,257.2	413.3	339.5	73.76	5.603		
10,800.0	8,016.0	10,014.6	7,788.0	47.8	49.6	-56.58	2,320.1	-1,257.2	414.0	337.4	76.56	5.408		
10,900.0	8,016.0	10,114.6	7,788.0	49.3	51.1	-56.65	2,420.1	-1,257.2	414.7	335.4	79.38	5.225		
11,000.0	8,016.0	10,214.6	7,788.0	50.9	52.7	-56.72	2,520.0	-1,257.2	415.5	333.3	82.21	5.054		
11,100.0	8,016.0	10,314.6	7,788.0	52.5	54.2	-56.78	2,620.0	-1,257.2	416.2	331.1	85.05	4.893		
11,200.0	8,016.0	10,414.6	7,788.0	54.1	55.7	-56.85	2,720.0	-1,257.2	416.9	329.0	87.91	4.742		
11,300.0	8,016.0	10,514.6	7,788.0	55.7	57.3	-56.91	2,820.0	-1,257.2	417.7	326.9	90.79	4.600		
11,400.0	8,016.0	10,614.6	7,788.0	57.3	58.9	-56.98	2,920.0	-1,257.2	418.4	324.7	93.67	4.467		
11,500.0	8,016.0	10,714.6	7,788.0	58.9	60.5	-57.04	3,020.0	-1,257.2	419.1	322.6	96.57	4.340		
11,600.0	8,016.0	10,814.6	7,788.0	60.6	62.0	-57.11	3,120.0	-1,257.2	419.9	320.4	99.47	4.221		
11,700.0	8,016.0	10,914.6	7,788.0	62.2	63.6	-57.17	3,220.0	-1,257.2	420.6	318.2	102.39	4.108		
11,800.0	8,016.0	11,014.6	7,788.0	63.8	65.3	-57.24	3,320.0	-1,257.2	421.3	316.0	105.32	4.000		
11,900.0	8,016.0	11,114.6	7,788.0	65.5	66.9	-57.30	3,420.0	-1,257.2	422.1	313.8	108.25	3.899		
12,000.0	8,016.0	11,214.6	7,788.0	67.1	68.5	-57.36	3,520.0	-1,257.2	422.8	311.6	111.20	3.802		
12,100.0	8,016.0	11,314.6	7,788.0	68.8	70.1	-57.43	3,620.0	-1,257.2	423.5	309.4	114.15	3.710		
12,200.0	8,016.0	11,414.6	7,788.0	70.5	71.8	-57.49	3,720.0	-1,257.2	424.3	307.2	117.11	3.623		
12,300.0	8,016.0	11,514.6	7,788.0	72.1	73.4	-57.56	3,820.0	-1,257.2	425.0	304.9	120.08	3.539		
12,400.0	8,016.0	11,614.6	7,788.0	73.8	75.0	-57.62	3,920.0	-1,257.2	425.7	302.7	123.05	3.460		
12,500.0	8,016.0	11,714.6	7,788.0	75.5	76.7	-57.68	4,020.0	-1,257.2	426.5	300.4	126.03	3.384		
12,600.0	8,016.0	11,814.5	7,788.0	77.2	78.3	-57.74	4,120.0	-1,257.2	427.2	298.2	129.02	3.311		
12,700.0	8,016.0	11,914.5	7,788.0	78.9	80.0	-57.81	4,220.0	-1,257.2	427.9	295.9	132.02	3.242		
12,800.0	8,016.0	12,014.5	7,788.0	80.5	81.7	-57.87	4,320.0	-1,257.2	428.7	293.7	135.02	3.175		

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

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3A-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,900.0	8,016.0	12,114.5	7,788.0	82.2	83.3	-57.93	4,420.0	-1,257.2	429.4	291.4	138.02	3.111		
13,000.0	8,016.0	12,214.5	7,788.0	83.9	85.0	-57.99	4,520.0	-1,257.2	430.2	289.1	141.04	3.050		
13,100.0	8,016.0	12,314.5	7,788.0	85.6	86.7	-58.05	4,620.0	-1,257.2	430.9	286.8	144.06	2.991		
13,200.0	8,016.0	12,414.5	7,788.0	87.3	88.4	-58.11	4,720.0	-1,257.2	431.6	284.6	147.08	2.935		
13,300.0	8,016.0	12,514.5	7,788.0	89.0	90.0	-58.18	4,820.0	-1,257.2	432.4	282.3	150.11	2.880		
13,400.0	8,016.0	12,614.5	7,788.0	90.7	91.7	-58.24	4,920.0	-1,257.2	433.1	280.0	153.14	2.828		
13,500.0	8,016.0	12,714.5	7,788.0	92.4	93.4	-58.30	5,020.0	-1,257.2	433.9	277.7	156.19	2.778		
13,600.0	8,016.0	12,814.5	7,788.0	94.1	95.1	-58.36	5,119.9	-1,257.2	434.6	275.4	159.23	2.729		
13,700.0	8,016.0	12,914.5	7,788.0	95.8	96.8	-58.42	5,219.9	-1,257.2	435.4	273.1	162.28	2.683		
13,800.0	8,016.0	13,014.5	7,788.0	97.5	98.5	-58.48	5,319.9	-1,257.2	436.1	270.8	165.33	2.638		
13,900.0	8,016.0	13,114.5	7,788.0	99.2	100.2	-58.54	5,419.9	-1,257.2	436.8	268.4	168.39	2.594		
14,000.0	8,016.0	13,214.5	7,788.0	101.0	101.9	-58.60	5,519.9	-1,257.2	437.6	266.1	171.46	2.552		
14,100.0	8,016.0	13,314.5	7,788.0	102.7	103.6	-58.66	5,619.9	-1,257.2	438.3	263.8	174.53	2.512		
14,200.0	8,016.0	13,414.5	7,788.0	104.4	105.3	-58.72	5,719.9	-1,257.2	439.1	261.5	177.60	2.472		
14,300.0	8,016.0	13,514.5	7,788.0	106.1	107.0	-58.77	5,819.9	-1,257.2	439.8	259.1	180.68	2.434		
14,400.0	8,016.0	13,614.5	7,788.0	107.8	108.7	-58.81	5,919.9	-1,257.2	440.2	256.1	184.08	2.391		
14,500.0	8,016.0	13,714.5	7,788.0	109.5	110.4	-58.72	6,019.9	-1,257.2	439.2	251.8	187.38	2.344		
14,600.0	8,016.0	13,814.4	7,788.0	111.3	112.1	-58.50	6,119.9	-1,257.2	436.6	246.3	190.38	2.293		
14,700.0	8,016.0	13,914.3	7,788.0	113.0	113.8	-58.16	6,219.8	-1,257.2	432.6	239.6	193.05	2.241		
14,800.0	8,016.0	14,014.1	7,788.0	114.7	115.5	-57.71	6,319.6	-1,257.2	427.4	232.2	195.24	2.189		
14,900.0	8,016.0	14,113.9	7,788.0	116.5	117.2	-57.25	6,419.4	-1,257.2	422.1	224.9	197.24	2.140		
15,000.0	8,016.0	14,213.7	7,788.0	118.2	118.9	-56.78	6,519.2	-1,257.2	416.8	217.6	199.17	2.093		
15,100.0	8,016.0	14,313.5	7,788.0	119.9	120.6	-56.30	6,619.0	-1,257.2	411.5	210.5	201.03	2.047		
15,200.0	8,016.0	14,413.3	7,788.0	121.7	122.3	-55.81	6,718.8	-1,257.2	406.3	203.5	202.82	2.003		
15,300.0	8,016.0	14,513.1	7,788.0	123.4	124.0	-55.31	6,818.6	-1,257.2	401.1	196.6	204.53	1.961		
15,400.0	8,016.0	14,612.9	7,788.0	125.2	125.7	-54.79	6,918.4	-1,257.2	395.9	189.8	206.17	1.920		
15,500.0	8,016.0	14,712.7	7,788.0	126.9	127.5	-54.25	7,018.2	-1,257.2	390.8	183.1	207.72	1.881		
15,516.1	8,016.0	14,728.8	7,788.0	127.2	127.7	-54.17	7,034.2	-1,257.2	390.0	182.0	207.96	1.875 SF		

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3C-29H-M168 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	11.2	11.2						
100.0	100.0	100.0	100.0	0.2	0.2	90.04	0.0	11.2	11.2	10.9	0.30	36.890			
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	11.2	11.2	10.6	0.65	17.163			
300.0	300.0	300.0	300.0	0.5	0.5	90.04	0.0	11.2	11.2	10.2	1.00	11.183 CC, ES			
400.0	400.0	400.0	400.0	0.7	0.7	-146.51	0.0	11.2	11.9	10.6	1.35	8.824			
500.0	500.0	500.0	500.0	0.9	0.9	-148.94	-0.9	11.1	13.9	12.2	1.70	8.187			
600.0	599.9	600.0	600.0	1.0	1.0	-147.98	-3.4	10.6	17.0	14.9	2.06	8.265			
700.0	699.7	700.0	699.9	1.2	1.2	-145.25	-7.7	9.8	21.2	18.7	2.42	8.732			
800.0	799.4	799.9	799.6	1.4	1.4	-141.93	-13.7	8.8	26.5	23.7	2.81	9.432			
900.0	898.9	899.8	899.1	1.7	1.6	-138.66	-21.5	7.4	33.0	29.8	3.21	10.266			
1,000.0	998.3	999.5	998.4	1.9	1.8	-135.69	-30.9	5.8	40.8	37.1	3.65	11.163			
1,100.0	1,097.4	1,099.1	1,097.3	2.2	2.1	-133.11	-42.0	3.8	49.8	45.7	4.13	12.074			
1,200.0	1,196.3	1,198.5	1,195.9	2.5	2.3	-130.89	-54.7	1.6	60.2	55.6	4.64	12.961			
1,300.0	1,295.1	1,297.7	1,294.1	2.8	2.6	-128.59	-69.1	-1.0	71.4	66.2	5.20	13.727			
1,400.0	1,393.8	1,396.8	1,391.8	3.1	2.9	-125.74	-85.2	-3.8	82.8	77.0	5.79	14.301			
1,500.0	1,492.6	1,495.8	1,489.1	3.4	3.3	-122.56	-102.9	-6.9	94.8	88.3	6.42	14.762			
1,600.0	1,591.3	1,594.4	1,585.8	3.7	3.6	-119.22	-122.2	-10.3	107.3	100.3	7.08	15.170			
1,700.0	1,690.1	1,692.7	1,681.8	4.0	4.0	-115.81	-143.0	-14.0	120.7	113.0	7.75	15.570			
1,800.0	1,788.8	1,790.7	1,777.1	4.4	4.4	-112.42	-165.4	-18.0	135.0	126.6	8.44	15.992			
1,900.0	1,887.6	1,888.8	1,872.2	4.7	4.8	-109.20	-189.1	-22.1	150.3	141.2	9.13	16.459			
2,000.0	1,986.3	1,987.3	1,967.7	5.0	5.3	-106.52	-213.1	-26.4	166.0	156.2	9.81	16.920			
2,100.0	2,085.1	2,087.5	2,064.7	5.3	5.7	-104.23	-237.4	-31.0	181.7	171.3	10.49	17.322			
2,200.0	2,183.8	2,189.2	2,163.3	5.6	6.2	-102.07	-261.6	-37.2	196.3	185.1	11.18	17.558			
2,300.0	2,282.6	2,289.4	2,260.4	6.0	6.6	-100.04	-285.1	-44.8	209.8	197.9	11.86	17.693			
2,400.0	2,381.3	2,388.2	2,356.2	6.3	7.1	-98.25	-308.3	-52.5	223.4	210.8	12.52	17.835			
2,500.0	2,480.1	2,487.1	2,452.0	6.6	7.5	-96.67	-331.5	-60.1	237.1	224.0	13.19	17.983			
2,600.0	2,578.8	2,585.9	2,547.7	6.9	8.0	-95.27	-354.7	-67.8	251.1	237.2	13.84	18.135			
2,700.0	2,677.6	2,684.8	2,643.5	7.3	8.4	-94.01	-377.8	-75.4	265.1	250.6	14.50	18.286			
2,800.0	2,776.4	2,783.6	2,739.3	7.6	8.8	-92.88	-401.0	-83.1	279.3	264.1	15.15	18.436			
2,900.0	2,875.1	2,882.5	2,835.1	7.9	9.3	-91.86	-424.2	-90.8	293.5	277.7	15.80	18.582			
3,000.0	2,973.9	2,981.3	2,930.9	8.2	9.8	-90.93	-447.3	-98.4	307.9	291.5	16.44	18.725			
3,100.0	3,072.6	3,080.2	3,026.7	8.5	10.2	-90.09	-470.5	-106.1	322.3	305.2	17.09	18.863			
3,200.0	3,171.4	3,179.0	3,122.5	8.9	10.7	-89.32	-493.7	-113.7	336.8	319.1	17.73	18.997			
3,300.0	3,270.1	3,277.9	3,218.3	9.2	11.1	-88.61	-516.9	-121.4	351.3	333.0	18.37	19.126			
3,400.0	3,368.9	3,376.7	3,314.1	9.5	11.6	-87.96	-540.0	-129.1	365.9	346.9	19.01	19.250			
3,500.0	3,467.6	3,475.6	3,409.8	9.8	12.0	-87.35	-563.2	-136.7	380.5	360.9	19.65	19.369			
3,600.0	3,566.4	3,574.4	3,505.6	10.2	12.5	-86.80	-586.4	-144.4	395.2	374.9	20.28	19.484			
3,700.0	3,665.1	3,673.3	3,601.4	10.5	12.9	-86.28	-609.6	-152.0	409.9	389.0	20.92	19.594			
3,800.0	3,763.9	3,772.1	3,697.2	10.8	13.4	-85.80	-632.7	-159.7	424.6	403.1	21.56	19.700			
3,900.0	3,862.6	3,870.9	3,793.0	11.2	13.8	-85.35	-655.9	-167.4	439.4	417.2	22.19	19.802			
4,000.0	3,961.4	3,969.8	3,888.8	11.5	14.3	-84.93	-679.1	-175.0	454.2	431.4	22.82	19.899			
4,100.0	4,060.1	4,068.6	3,984.6	11.8	14.8	-84.53	-702.2	-182.7	469.0	445.5	23.46	19.993			
4,200.0	4,158.9	4,167.5	4,080.4	12.1	15.2	-84.17	-725.4	-190.3	483.8	459.7	24.09	20.083			
4,300.0	4,257.6	4,266.3	4,176.1	12.5	15.7	-83.82	-748.6	-198.0	498.7	473.9	24.72	20.170			
7,600.0	7,516.8	8,585.4	7,788.0	23.1	20.4	139.04	-612.5	-504.5	457.8	421.7	36.05	12.699			
7,700.0	7,613.7	8,606.5	7,788.0	23.1	20.2	117.56	-591.4	-504.8	418.7	382.7	35.99	11.634			
7,800.0	7,705.5	8,644.2	7,788.0	23.0	20.0	106.56	-553.8	-505.5	400.1	365.4	34.69	11.534			
7,844.0	7,743.6	8,665.7	7,788.0	23.0	19.8	102.10	-532.2	-505.9	398.3	364.4	33.87	11.760			
7,900.0	7,789.6	8,697.3	7,788.0	22.9	19.6	96.29	-500.6	-506.4	400.9	368.1	32.76	12.237			
8,000.0	7,863.2	8,764.3	7,788.0	22.6	19.2	85.79	-433.6	-507.6	415.4	384.5	30.94	13.428			
8,100.0	7,924.2	8,843.2	7,788.0	22.4	18.9	76.15	-354.7	-509.0	436.2	406.6	29.52	14.773			
8,200.0	7,970.8	8,931.5	7,788.0	22.2	18.6	68.58	-266.5	-510.5	456.2	427.7	28.53	15.991			

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

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3C-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			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)	
8,300.0	8,001.4	9,026.5	7,788.0	22.1	18.4	63.66	-171.4	-512.2	470.6	442.7	27.95	16.838		
8,400.0	8,015.2	9,125.5	7,788.0	22.1	18.4	61.49	-72.5	-513.9	476.3	448.4	27.88	17.083		
8,500.0	8,016.0	9,225.4	7,788.0	22.1	18.6	61.27	27.4	-515.6	474.5	446.3	28.22	16.811		
8,600.0	8,016.0	9,325.4	7,788.0	22.4	18.9	61.12	127.4	-517.4	472.2	443.3	28.86	16.359		
8,700.0	8,016.0	9,425.3	7,788.0	22.7	19.4	60.96	227.3	-519.1	469.9	440.1	29.81	15.764		
8,800.0	8,016.0	9,525.3	7,788.0	23.2	20.0	60.81	327.3	-520.9	467.6	436.6	31.02	15.073		
8,900.0	8,016.0	9,625.3	7,788.0	23.8	20.7	60.65	427.2	-522.6	465.3	432.8	32.48	14.327		
9,000.0	8,016.0	9,725.2	7,788.0	24.5	21.6	60.49	527.2	-524.4	463.0	428.9	34.14	13.563		
9,100.0	8,016.0	9,825.2	7,788.0	25.3	22.6	60.33	627.1	-526.1	460.8	424.8	35.98	12.808		
9,200.0	8,016.0	9,925.2	7,788.0	26.3	23.6	60.17	727.1	-527.8	458.5	420.5	37.96	12.079		
9,300.0	8,016.0	10,025.1	7,788.0	27.2	24.8	60.01	827.0	-529.6	456.2	416.2	40.06	11.387		
9,400.0	8,016.0	10,125.1	7,788.0	28.3	26.0	59.84	927.0	-531.3	454.0	411.7	42.27	10.739		
9,500.0	8,016.0	10,225.1	7,788.0	29.5	27.2	59.68	1,026.9	-533.1	451.7	407.1	44.56	10.136		
9,600.0	8,016.0	10,325.0	7,788.0	30.6	28.6	59.51	1,126.9	-534.8	449.4	402.5	46.93	9.578		
9,700.0	8,016.0	10,425.0	7,788.0	31.9	29.9	59.34	1,226.8	-536.6	447.2	397.8	49.34	9.062		
9,800.0	8,016.0	10,525.0	7,788.0	33.2	31.3	59.16	1,326.8	-538.3	444.9	393.1	51.81	8.588		
9,900.0	8,016.0	10,624.9	7,788.0	34.5	32.8	58.99	1,426.7	-540.1	442.7	388.4	54.32	8.150		
10,000.0	8,016.0	10,724.9	7,788.0	35.9	34.2	58.82	1,526.7	-541.8	440.4	383.6	56.85	7.747		
10,100.0	8,016.0	10,824.9	7,788.0	37.3	35.7	58.64	1,626.6	-543.6	438.2	378.8	59.42	7.375		
10,200.0	8,016.0	10,924.8	7,788.0	38.7	37.2	58.46	1,726.6	-545.3	436.0	374.0	62.00	7.032		
10,300.0	8,016.0	11,024.8	7,788.0	40.2	38.8	58.28	1,826.5	-547.0	433.7	369.1	64.60	6.714		
10,400.0	8,016.0	11,124.8	7,788.0	41.7	40.3	58.10	1,926.5	-548.8	431.5	364.3	67.21	6.420		
10,500.0	8,016.0	11,224.7	7,788.0	43.2	41.9	57.91	2,026.4	-550.5	429.3	359.5	69.83	6.147		
10,600.0	8,016.0	11,324.7	7,788.0	44.7	43.5	57.72	2,126.4	-552.3	427.1	354.6	72.46	5.894		
10,700.0	8,016.0	11,424.7	7,788.0	46.2	45.1	57.54	2,226.3	-554.0	424.9	349.8	75.09	5.658		
10,800.0	8,016.0	11,524.6	7,788.0	47.8	46.7	57.35	2,326.3	-555.8	422.7	344.9	77.72	5.438		
10,900.0	8,016.0	11,624.6	7,788.0	49.3	48.3	57.15	2,426.2	-557.5	420.5	340.1	80.36	5.232		
11,000.0	8,016.0	11,724.5	7,788.0	50.9	49.9	56.96	2,526.2	-559.3	418.3	335.3	82.99	5.040		
11,100.0	8,016.0	11,824.5	7,788.0	52.5	51.5	56.76	2,626.1	-561.0	416.1	330.5	85.61	4.860		
11,200.0	8,016.0	11,924.5	7,788.0	54.1	53.2	56.56	2,726.1	-562.7	413.9	325.7	88.23	4.691		
11,300.0	8,016.0	12,024.4	7,788.0	55.7	54.8	56.36	2,826.0	-564.5	411.7	320.9	90.85	4.532		
11,400.0	8,016.0	12,124.4	7,788.0	57.3	56.5	56.16	2,926.0	-566.2	409.5	316.1	93.45	4.382		
11,500.0	8,016.0	12,224.4	7,788.0	58.9	58.1	55.96	3,025.9	-568.0	407.4	311.3	96.05	4.241		
11,600.0	8,016.0	12,324.3	7,788.0	60.6	59.8	55.75	3,125.9	-569.7	405.2	306.5	98.64	4.108		
11,700.0	8,016.0	12,424.3	7,788.0	62.2	61.5	55.54	3,225.8	-571.5	403.0	301.8	101.22	3.982		
11,800.0	8,016.0	12,524.3	7,788.0	63.8	63.2	55.33	3,325.8	-573.2	400.9	297.1	103.78	3.863		
11,900.0	8,016.0	12,624.2	7,788.0	65.5	64.8	55.11	3,425.7	-575.0	398.7	292.4	106.33	3.750		
12,000.0	8,016.0	12,724.2	7,788.0	67.1	66.5	54.90	3,525.7	-576.7	396.6	287.7	108.87	3.643		
12,100.0	8,016.0	12,824.2	7,788.0	68.8	68.2	54.68	3,625.6	-578.4	394.4	283.0	111.40	3.541		
12,200.0	8,016.0	12,924.1	7,788.0	70.5	69.9	54.46	3,725.6	-580.2	392.3	278.4	113.91	3.444		
12,300.0	8,016.0	13,024.1	7,788.0	72.1	71.6	54.23	3,825.5	-581.9	390.2	273.8	116.40	3.352		
12,400.0	8,016.0	13,124.1	7,788.0	73.8	73.3	54.01	3,925.5	-583.7	388.1	269.2	118.87	3.264		
12,500.0	8,016.0	13,224.0	7,788.0	75.5	75.0	53.78	4,025.4	-585.4	385.9	264.6	121.33	3.181		
12,600.0	8,016.0	13,324.0	7,788.0	77.2	76.7	53.55	4,125.4	-587.2	383.8	260.1	123.77	3.101		
12,700.0	8,016.0	13,424.0	7,788.0	78.9	78.4	53.32	4,225.3	-588.9	381.7	255.5	126.20	3.025		
12,800.0	8,016.0	13,523.9	7,788.0	80.5	80.1	53.08	4,325.3	-590.7	379.6	251.0	128.60	2.952		
12,900.0	8,016.0	13,623.9	7,788.0	82.2	81.8	52.84	4,425.2	-592.4	377.5	246.6	130.98	2.882		
13,000.0	8,016.0	13,723.9	7,788.0	83.9	83.5	52.60	4,525.2	-594.1	375.5	242.1	133.34	2.816		
13,100.0	8,016.0	13,823.8	7,788.0	85.6	85.2	52.36	4,625.1	-595.9	373.4	237.7	135.68	2.752		
13,200.0	8,016.0	13,922.6	7,788.0	87.3	86.9	52.12	4,723.9	-597.6	371.4	233.4	137.99	2.691		
13,300.0	8,016.0	14,017.7	7,788.0	89.0	88.5	51.99	4,819.0	-598.0	370.3	229.8	140.44	2.637		
13,332.6	8,016.0	14,048.7	7,788.0	89.6	89.1	51.98	4,850.0	-597.9	370.2	228.9	141.29	2.620		

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

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3C-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
13,400.0	8,016.0	14,114.0	7,788.0	90.7	90.2	52.02	4,915.3	-597.0	370.5	227.3	143.16	2.588		
13,500.0	8,016.0	14,214.0	7,788.0	92.4	91.9	52.09	5,015.3	-595.4	371.0	225.0	146.01	2.541		
13,600.0	8,016.0	14,314.0	7,788.0	94.1	93.6	52.15	5,115.2	-593.7	371.6	222.7	148.87	2.496		
13,700.0	8,016.0	14,414.0	7,788.0	95.8	95.3	52.22	5,215.2	-592.1	372.2	220.5	151.74	2.453		
13,800.0	8,016.0	14,514.0	7,788.0	97.5	97.0	52.29	5,315.2	-590.5	372.8	218.2	154.62	2.411		
13,900.0	8,016.0	14,614.0	7,788.0	99.2	98.8	52.36	5,415.2	-588.9	373.4	215.9	157.50	2.371		
14,000.0	8,016.0	14,714.0	7,788.0	101.0	100.5	52.43	5,515.2	-587.3	373.9	213.6	160.38	2.332		
14,100.0	8,016.0	14,814.0	7,788.0	102.7	102.2	52.50	5,615.2	-585.7	374.5	211.3	163.27	2.294		
14,200.0	8,016.0	14,914.0	7,788.0	104.4	103.9	52.57	5,715.1	-584.1	375.1	208.9	166.17	2.257		
14,300.0	8,016.0	15,014.0	7,788.0	106.1	105.6	52.64	5,815.1	-582.5	375.7	206.6	169.08	2.222		
14,400.0	8,016.0	15,114.0	7,788.0	107.8	107.4	52.74	5,915.1	-580.9	376.6	204.3	172.32	2.186		
14,500.0	8,016.0	15,213.9	7,788.0	109.5	109.1	52.98	6,015.1	-579.3	378.9	202.9	175.94	2.153		
14,600.0	8,016.0	15,313.8	7,788.0	111.3	110.8	53.37	6,114.9	-577.7	382.5	202.7	179.85	2.127		
14,700.0	8,016.0	15,413.6	7,788.0	113.0	112.5	53.90	6,214.7	-576.1	387.6	203.6	184.02	2.106		
14,800.0	8,016.0	15,513.3	7,788.0	114.7	114.3	54.55	6,314.4	-574.5	393.9	205.6	188.33	2.092		
14,900.0	8,016.0	15,613.0	7,788.0	116.5	116.0	55.20	6,414.1	-572.9	400.4	207.8	192.61	2.079		
15,000.0	8,016.0	15,712.7	7,788.0	118.2	117.7	55.84	6,513.8	-571.3	406.9	210.0	196.85	2.067		
15,100.0	8,016.0	15,812.4	7,788.0	119.9	119.4	56.45	6,613.4	-569.7	413.5	212.4	201.08	2.056		
15,200.0	8,016.0	15,912.1	7,788.0	121.7	121.1	57.05	6,713.1	-568.1	420.1	214.8	205.29	2.046		
15,300.0	8,016.0	16,011.7	7,788.0	123.4	122.9	57.62	6,812.8	-566.5	426.8	217.3	209.47	2.037		
15,400.0	8,016.0	16,111.4	7,788.0	125.2	124.6	58.18	6,912.5	-564.9	433.5	219.8	213.64	2.029		
15,500.0	8,016.0	16,211.1	7,788.0	126.9	126.3	58.73	7,012.1	-563.3	440.2	222.4	217.78	2.021		
15,516.1	8,016.0	16,227.1	7,788.0	127.2	126.6	58.81	7,028.1	-563.0	441.3	222.8	218.44	2.020 SF		



# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3D-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	19.6	19.6	19.3	0.30	64.558		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	19.6	19.6	19.0	0.65	30.035		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	19.6	19.6	18.6	1.00	19.570 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	-145.49	0.0	19.6	20.3	19.0	1.35	15.039		
500.0	500.0	500.0	500.0	0.9	0.8	-149.25	0.0	19.6	22.5	20.8	1.70	13.244		
600.0	599.9	600.2	600.2	1.0	1.0	-152.92	-0.7	19.0	25.7	23.6	2.05	12.515		
700.0	699.7	700.5	700.5	1.2	1.2	-155.17	-2.6	17.2	29.1	26.7	2.40	12.096		
800.0	799.4	800.7	800.6	1.4	1.4	-156.54	-5.7	14.4	32.8	30.1	2.76	11.890 SF		
900.0	898.9	900.6	900.3	1.7	1.6	-158.37	-9.0	11.3	37.9	34.8	3.12	12.174		
1,000.0	998.3	1,000.3	1,000.0	1.9	1.8	-160.53	-12.4	8.2	44.7	41.2	3.47	12.888		
1,100.0	1,097.4	1,100.0	1,099.5	2.2	1.9	-162.69	-15.7	5.2	53.2	49.4	3.82	13.924		
1,200.0	1,196.3	1,199.4	1,198.9	2.5	2.1	-164.68	-19.0	2.1	63.4	59.2	4.17	15.211		
1,300.0	1,295.1	1,298.8	1,298.1	2.8	2.3	-166.31	-22.3	-0.9	74.6	70.1	4.52	16.510		
1,400.0	1,393.8	1,398.1	1,397.4	3.1	2.5	-167.51	-25.6	-4.0	85.9	81.0	4.87	17.631		
1,500.0	1,492.6	1,497.5	1,496.6	3.4	2.7	-168.44	-29.0	-7.0	97.1	91.9	5.22	18.607		
1,600.0	1,591.3	1,596.8	1,595.9	3.7	2.9	-169.17	-32.3	-10.1	108.4	102.9	5.57	19.464		
1,700.0	1,690.1	1,696.2	1,695.1	4.0	3.1	-169.77	-35.6	-13.1	119.8	113.8	5.92	20.222		
1,800.0	1,788.8	1,795.5	1,794.4	4.4	3.3	-170.26	-38.9	-16.2	131.1	124.8	6.27	20.897		
1,900.0	1,887.6	1,894.9	1,893.6	4.7	3.4	-170.68	-42.2	-19.2	142.4	135.8	6.62	21.502		
2,000.0	1,986.3	1,994.2	1,992.9	5.0	3.6	-171.03	-45.5	-22.2	153.8	146.8	6.97	22.048		
2,100.0	2,085.1	2,093.6	2,092.1	5.3	3.8	-171.33	-48.8	-25.3	165.1	157.8	7.32	22.542		
2,200.0	2,183.8	2,192.9	2,191.4	5.6	4.0	-171.60	-52.1	-28.3	176.5	168.8	7.68	22.991		
2,300.0	2,282.6	2,292.3	2,290.6	6.0	4.2	-171.83	-55.5	-31.4	187.8	179.8	8.03	23.401		
2,400.0	2,381.3	2,391.6	2,389.9	6.3	4.4	-172.04	-58.8	-34.4	199.2	190.8	8.38	23.778		
2,500.0	2,480.1	2,491.0	2,489.1	6.6	4.6	-172.22	-62.1	-37.5	210.5	201.8	8.73	24.124		
2,600.0	2,578.8	2,590.3	2,588.4	6.9	4.8	-172.39	-65.4	-40.5	221.9	212.8	9.08	24.444		
2,700.0	2,677.6	2,689.7	2,687.6	7.3	5.0	-172.54	-68.7	-43.6	233.3	223.8	9.43	24.741		
2,800.0	2,776.4	2,789.0	2,786.8	7.6	5.1	-172.67	-72.0	-46.6	244.6	234.8	9.78	25.016		
2,900.0	2,875.1	2,888.4	2,886.1	7.9	5.3	-172.80	-75.3	-49.7	256.0	245.9	10.13	25.272		
3,000.0	2,973.9	2,987.7	2,985.3	8.2	5.5	-172.91	-78.6	-52.7	267.4	256.9	10.48	25.512		
3,100.0	3,072.6	3,087.1	3,084.6	8.5	5.7	-173.01	-82.0	-55.8	278.7	267.9	10.83	25.736		
3,200.0	3,171.4	3,186.4	3,183.8	8.9	5.9	-173.11	-85.3	-58.8	290.1	278.9	11.18	25.946		
3,300.0	3,270.1	3,285.8	3,283.1	9.2	6.1	-173.20	-88.6	-61.9	301.5	289.9	11.53	26.143		
3,400.0	3,368.9	3,385.1	3,382.3	9.5	6.3	-173.28	-91.9	-64.9	312.8	300.9	11.88	26.329		
3,500.0	3,467.6	3,484.5	3,481.6	9.8	6.5	-173.35	-95.2	-68.0	324.2	312.0	12.23	26.504		
3,600.0	3,566.4	3,583.8	3,580.8	10.2	6.7	-173.43	-98.5	-71.0	335.6	323.0	12.58	26.669		
3,700.0	3,665.1	3,683.2	3,680.1	10.5	6.9	-173.49	-101.8	-74.1	346.9	334.0	12.93	26.826		
3,800.0	3,763.9	3,782.5	3,779.3	10.8	7.0	-173.55	-105.2	-77.1	358.3	345.0	13.28	26.974		
3,900.0	3,862.6	3,881.9	3,878.6	11.2	7.2	-173.61	-108.5	-80.1	369.7	356.1	13.63	27.115		
4,000.0	3,961.4	3,981.2	3,977.8	11.5	7.4	-173.67	-111.8	-83.2	381.1	367.1	13.98	27.248		
4,100.0	4,060.1	4,080.6	4,077.1	11.8	7.6	-173.72	-115.1	-86.2	392.4	378.1	14.34	27.375		
4,200.0	4,158.9	4,179.9	4,176.3	12.1	7.8	-173.77	-118.4	-89.3	403.8	389.1	14.69	27.496		
4,300.0	4,257.6	4,279.3	4,275.6	12.5	8.0	-173.81	-121.7	-92.3	415.2	400.1	15.04	27.612		
4,400.0	4,356.4	4,378.6	4,374.8	12.8	8.2	-173.86	-125.0	-95.4	426.5	411.2	15.39	27.722		
4,500.0	4,455.2	4,478.0	4,474.1	13.1	8.4	-173.90	-128.3	-98.4	437.9	422.2	15.74	27.828		
4,600.0	4,553.9	4,577.3	4,573.3	13.4	8.6	-173.94	-131.7	-101.5	449.3	433.2	16.09	27.928		
4,700.0	4,652.7	4,676.7	4,672.6	13.8	8.8	-173.98	-135.0	-104.5	460.7	444.2	16.44	28.025		
4,800.0	4,751.4	4,776.0	4,771.8	14.1	9.0	-174.01	-138.3	-107.6	472.0	455.3	16.79	28.117		
4,900.0	4,850.2	4,875.4	4,871.1	14.4	9.1	-174.05	-141.6	-110.6	483.4	466.3	17.14	28.206		
5,000.0	4,948.9	4,974.7	4,970.3	14.7	9.3	-174.08	-144.9	-113.7	494.8	477.3	17.49	28.291		

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

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3E-29H-M168 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)				Between Centres (ft)	Between Ellipses (ft)		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	30.8	30.8						
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	30.8	30.8	30.5	0.30	101.448			
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	30.8	30.8	30.2	0.65	47.198			
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	30.8	30.8	29.8	1.00	30.752 CC, ES			
400.0	400.0	400.0	400.0	0.7	0.7	-144.98	0.0	30.8	31.5	30.2	1.35	23.330			
500.0	500.0	499.9	499.9	0.9	0.9	-146.04	-0.9	30.9	33.7	32.0	1.70	19.814			
600.0	599.9	599.9	599.8	1.0	1.0	-145.75	-3.5	31.0	37.4	35.4	2.06	18.193			
700.0	699.7	699.7	699.5	1.2	1.2	-144.48	-7.8	31.3	42.6	40.2	2.42	17.607 SF			
800.0	799.4	799.4	799.1	1.4	1.4	-142.67	-13.9	31.8	49.4	46.6	2.80	17.633			
900.0	898.9	898.9	898.3	1.7	1.6	-140.65	-21.7	32.3	57.8	54.6	3.21	18.033			
1,000.0	998.3	998.2	997.1	1.9	1.8	-138.64	-31.2	32.9	67.8	64.2	3.64	18.655			
1,100.0	1,097.4	1,097.3	1,095.6	2.2	2.1	-136.75	-42.3	33.7	79.5	75.4	4.10	19.400			
1,200.0	1,196.3	1,196.1	1,193.5	2.5	2.3	-135.03	-55.1	34.6	92.8	88.2	4.59	20.200			
1,300.0	1,295.1	1,294.6	1,290.9	2.8	2.6	-133.29	-69.6	35.6	107.2	102.1	5.12	20.930			
1,400.0	1,393.8	1,392.8	1,387.9	3.1	2.9	-131.20	-85.6	36.7	122.2	116.5	5.68	21.498			
1,500.0	1,492.6	1,490.8	1,484.2	3.4	3.2	-128.91	-103.3	37.9	137.8	131.6	6.28	21.965			
1,600.0	1,591.3	1,588.4	1,579.9	3.7	3.6	-126.49	-122.5	39.2	154.3	147.4	6.89	22.380			
1,700.0	1,690.1	1,685.6	1,674.9	4.0	4.0	-124.03	-143.3	40.6	171.5	164.0	7.53	22.779			
1,800.0	1,788.8	1,782.4	1,769.0	4.4	4.4	-121.57	-165.6	42.1	189.8	181.6	8.18	23.196			
1,900.0	1,887.6	1,880.3	1,864.1	4.7	4.8	-119.34	-188.9	43.7	208.7	199.9	8.84	23.610			
2,000.0	1,986.3	1,978.2	1,959.2	5.0	5.2	-117.47	-212.1	45.3	227.9	218.4	9.49	24.003			
2,100.0	2,085.1	2,076.1	2,054.3	5.3	5.6	-115.90	-235.4	46.9	247.3	237.1	10.15	24.370			
2,200.0	2,183.8	2,174.0	2,149.3	5.6	6.1	-114.55	-258.7	48.5	266.8	256.0	10.80	24.711			
2,300.0	2,282.6	2,271.9	2,244.4	6.0	6.5	-113.38	-281.9	50.1	286.4	275.0	11.44	25.029			
2,400.0	2,381.3	2,369.8	2,339.5	6.3	6.9	-112.37	-305.2	51.7	306.2	294.1	12.09	25.324			
2,500.0	2,480.1	2,467.7	2,434.6	6.6	7.3	-111.48	-328.5	53.3	326.0	313.3	12.73	25.598			
2,600.0	2,578.8	2,565.6	2,529.7	6.9	7.8	-110.69	-351.7	54.8	345.9	332.5	13.38	25.852			
2,700.0	2,677.6	2,663.5	2,624.7	7.3	8.2	-109.99	-375.0	56.4	365.8	351.8	14.02	26.089			
2,800.0	2,776.4	2,761.4	2,719.8	7.6	8.6	-109.36	-398.3	58.0	385.8	371.2	14.66	26.310			
2,900.0	2,875.1	2,859.3	2,814.9	7.9	9.1	-108.79	-421.6	59.6	405.9	390.5	15.31	26.516			
3,000.0	2,973.9	2,957.2	2,910.0	8.2	9.5	-108.27	-444.8	61.2	425.9	410.0	15.95	26.708			
3,100.0	3,072.6	3,055.1	3,005.0	8.5	9.9	-107.80	-468.1	62.8	446.0	429.4	16.59	26.889			
3,200.0	3,171.4	3,153.0	3,100.1	8.9	10.4	-107.37	-491.4	64.4	466.1	448.9	17.23	27.058			
3,300.0	3,270.1	3,250.9	3,195.2	9.2	10.8	-106.98	-514.6	66.0	486.3	468.4	17.87	27.216			

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3F-29H-M168 - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	39.2	39.2				
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	39.2	39.2	38.9	0.30	129.115	
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	39.2	39.2	38.6	0.65	60.070	
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	39.2	39.2	38.2	1.00	39.140 CC, ES	
400.0	400.0	399.8	399.8	0.7	0.7	-143.59	-0.9	39.5	40.2	38.8	1.35	29.741	
500.0	500.0	499.5	499.5	0.9	0.9	-142.35	-3.3	40.3	43.1	41.4	1.70	25.301	
600.0	599.9	599.1	598.9	1.0	1.0	-140.62	-7.5	41.6	48.1	46.0	2.07	23.260	
700.0	699.7	698.5	698.2	1.2	1.2	-138.72	-13.2	43.5	55.0	52.6	2.44	22.542 SF	
800.0	799.4	797.6	797.0	1.4	1.4	-136.88	-20.6	45.9	64.1	61.2	2.83	22.600	
900.0	898.9	896.5	895.4	1.7	1.7	-135.21	-29.5	48.8	75.1	71.9	3.25	23.126	
1,000.0	998.3	995.0	993.2	1.9	1.9	-133.78	-40.1	52.2	88.2	84.6	3.69	23.927	
1,100.0	1,097.4	1,093.0	1,090.5	2.2	2.2	-132.56	-52.1	56.1	103.4	99.2	4.16	24.880	
1,200.0	1,196.3	1,190.6	1,187.0	2.5	2.5	-131.53	-65.7	60.6	120.6	115.9	4.65	25.902	
1,300.0	1,295.1	1,287.7	1,282.8	2.8	2.8	-130.55	-80.8	65.5	139.2	134.0	5.18	26.883	
1,400.0	1,393.8	1,384.4	1,377.9	3.1	3.1	-129.30	-97.3	70.8	158.8	153.1	5.72	27.736	
1,500.0	1,492.6	1,480.6	1,472.3	3.4	3.4	-127.89	-115.3	76.7	179.3	173.0	6.29	28.504	
1,600.0	1,591.3	1,576.3	1,565.8	3.7	3.8	-126.38	-134.7	83.0	200.9	194.0	6.87	29.222	
1,700.0	1,690.1	1,671.5	1,658.4	4.0	4.2	-124.83	-155.4	89.7	223.5	216.0	7.47	29.925	
1,800.0	1,788.8	1,768.4	1,752.5	4.4	4.6	-123.36	-177.4	96.8	246.9	238.8	8.07	30.573	
1,900.0	1,887.6	1,865.4	1,846.8	4.7	5.0	-122.14	-199.4	104.0	270.3	261.7	8.68	31.143	
2,000.0	1,986.3	1,962.5	1,941.0	5.0	5.5	-121.11	-221.4	111.1	293.9	284.6	9.29	31.647	
2,100.0	2,085.1	2,059.5	2,035.3	5.3	5.9	-120.24	-243.4	118.3	317.6	307.7	9.89	32.095	
2,200.0	2,183.8	2,156.6	2,129.5	5.6	6.3	-119.49	-265.4	125.4	341.3	330.8	10.50	32.496	
2,300.0	2,282.6	2,253.6	2,223.8	6.0	6.7	-118.84	-287.5	132.6	365.1	353.9	11.11	32.857	
2,400.0	2,381.3	2,350.7	2,318.0	6.3	7.2	-118.26	-309.5	139.8	388.9	377.1	11.72	33.183	
2,500.0	2,480.1	2,447.7	2,412.3	6.6	7.6	-117.75	-331.5	146.9	412.7	400.4	12.33	33.479	
2,600.0	2,578.8	2,544.8	2,506.5	6.9	8.0	-117.30	-353.5	154.1	436.5	423.6	12.94	33.749	
2,700.0	2,677.6	2,641.9	2,600.8	7.3	8.5	-116.90	-375.5	161.2	460.4	446.9	13.54	33.996	
2,800.0	2,776.4	2,738.9	2,695.0	7.6	8.9	-116.53	-397.6	168.4	484.3	470.2	14.15	34.223	

# Anticollision Report

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

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3G-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program:		0-MWD											Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.05	0.0	50.4	50.4					
100.0	100.0	101.0	101.0	0.2	0.2	90.05	0.0	50.4	50.4	50.1	0.31	165.057		
166.3	166.3	167.3	167.3	0.3	0.3	90.05	0.0	50.4	50.4	49.9	0.54	93.886 CC		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	50.4	50.4	49.8	0.65	77.027 ES		
300.0	300.0	300.4	300.4	0.5	0.5	90.78	-0.7	51.0	51.0	50.0	1.00	50.834		
400.0	400.0	400.0	400.0	0.7	0.7	-141.80	-2.6	52.7	53.5	52.1	1.35	39.505		
500.0	500.0	498.9	498.8	0.9	0.9	-140.31	-5.9	55.6	58.6	56.9	1.71	34.288		
600.0	599.9	597.8	597.5	1.0	1.1	-138.99	-10.3	59.6	66.3	64.2	2.07	32.008		
700.0	699.7	696.4	695.8	1.2	1.3	-137.94	-16.1	64.7	76.6	74.2	2.44	31.342 SF		
800.0	799.4	794.5	793.4	1.4	1.5	-137.14	-23.0	70.9	89.5	86.6	2.83	31.620		
900.0	898.9	892.0	890.4	1.7	1.7	-136.55	-31.2	78.2	104.9	101.6	3.23	32.469		
1,000.0	998.3	989.0	986.5	1.9	2.0	-136.11	-40.5	86.6	122.8	119.1	3.65	33.661		
1,100.0	1,097.4	1,085.2	1,081.6	2.2	2.3	-135.80	-50.9	95.9	143.2	139.1	4.09	35.054		
1,200.0	1,196.3	1,181.2	1,176.5	2.5	2.6	-135.58	-62.5	106.2	166.0	161.5	4.54	36.549		
1,300.0	1,295.1	1,278.4	1,272.3	2.8	2.9	-135.67	-74.4	116.9	189.8	184.8	5.01	37.846		
1,400.0	1,393.8	1,375.5	1,368.1	3.1	3.2	-135.75	-86.4	127.6	213.5	208.1	5.49	38.878		
1,500.0	1,492.6	1,472.7	1,463.9	3.4	3.5	-135.81	-98.3	138.2	237.3	231.3	5.98	39.716		
1,600.0	1,591.3	1,569.8	1,559.7	3.7	3.9	-135.86	-110.2	148.9	261.1	254.6	6.46	40.408		
1,700.0	1,690.1	1,666.9	1,655.5	4.0	4.2	-135.90	-122.2	159.6	284.8	277.9	6.95	40.987		
1,800.0	1,788.8	1,764.1	1,751.3	4.4	4.5	-135.94	-134.1	170.3	308.6	301.2	7.44	41.479		
1,900.0	1,887.6	1,861.2	1,847.1	4.7	4.8	-135.97	-146.1	180.9	332.4	324.4	7.93	41.901		
2,000.0	1,986.3	1,958.3	1,942.9	5.0	5.1	-135.99	-158.0	191.6	356.1	347.7	8.43	42.266		
2,100.0	2,085.1	2,055.5	2,038.7	5.3	5.5	-136.01	-169.9	202.3	379.9	371.0	8.92	42.585		
2,200.0	2,183.8	2,152.6	2,134.5	5.6	5.8	-136.03	-181.9	212.9	403.7	394.2	9.42	42.866		
2,300.0	2,282.6	2,249.7	2,230.3	6.0	6.1	-136.05	-193.8	223.6	427.4	417.5	9.91	43.115		
2,400.0	2,381.3	2,346.9	2,326.1	6.3	6.4	-136.07	-205.8	234.3	451.2	440.8	10.41	43.338		
2,500.0	2,480.1	2,444.0	2,421.9	6.6	6.8	-136.08	-217.7	245.0	475.0	464.0	10.91	43.537		
2,600.0	2,578.8	2,541.1	2,517.8	6.9	7.1	-136.10	-229.7	255.6	498.7	487.3	11.41	43.717		

## Anticollision Report

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

Offset Design											S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 12-20 (EXISTING) - ENCANA WELL -			Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
15,200.0	8,016.0	8,000.0	8,000.0	121.7	13.9	-21.89	7,190.8	-966.0	475.7	415.8	59.90	7.942				
15,300.0	8,016.0	8,000.0	8,000.0	123.4	13.9	-21.89	7,190.8	-966.0	376.2	315.6	60.56	6.211				
15,400.0	8,016.0	8,000.0	8,000.0	125.2	13.9	-21.89	7,190.8	-966.0	277.0	215.8	61.23	4.524				
15,500.0	8,016.0	8,000.0	8,000.0	126.9	13.9	-21.89	7,190.8	-966.0	178.7	116.8	61.90	2.887				
15,516.1	8,016.0	8,000.0	8,000.0	127.2	13.9	-21.89	7,190.8	-966.0	163.1	101.1	62.01	2.631	CC, ES, SF			

# Anticollision Report

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

Offset Design													S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 12-20 (EXISTING) - ENCANA WELL -		Offset Site Error:		0.0 ft	
Survey Program: 100-Gyro															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
15,300.0	8,016.0	8,038.6	8,036.3	123.4	7.0	-86.29	7,233.0	-979.0	417.7	287.8	129.88	3.216						
15,400.0	8,016.0	8,039.1	8,036.8	125.2	7.0	-87.40	7,233.0	-979.0	317.9	186.2	131.75	2.413						
15,500.0	8,016.0	8,039.6	8,037.3	126.9	7.0	-88.51	7,233.0	-979.0	218.4	84.8	133.57	1.635						
15,516.1	8,016.0	8,039.6	8,037.4	127.2	7.0	-88.69	7,233.0	-979.0	202.5	68.6	133.86	1.512	CC, ES, SF					

## Anticollision Report

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

Offset Design		S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WELL										Offset Site Error:		0.0 ft
Survey Program:		911-MWD										Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
15,500.0	8,016.0	12,409.8	7,682.9	126.9	114.0	-6.26	7,265.7	-994.4	436.3	387.9	48.43	9.008		
15,516.1	8,016.0	12,406.5	7,683.0	127.2	113.9	-5.75	7,266.6	-991.3	427.3	379.3	47.92	8.915 CC, ES, SF		

# Anticollision Report

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

Reference Depths are relative to WELL @ 5153.0ft (Original Well Elev)

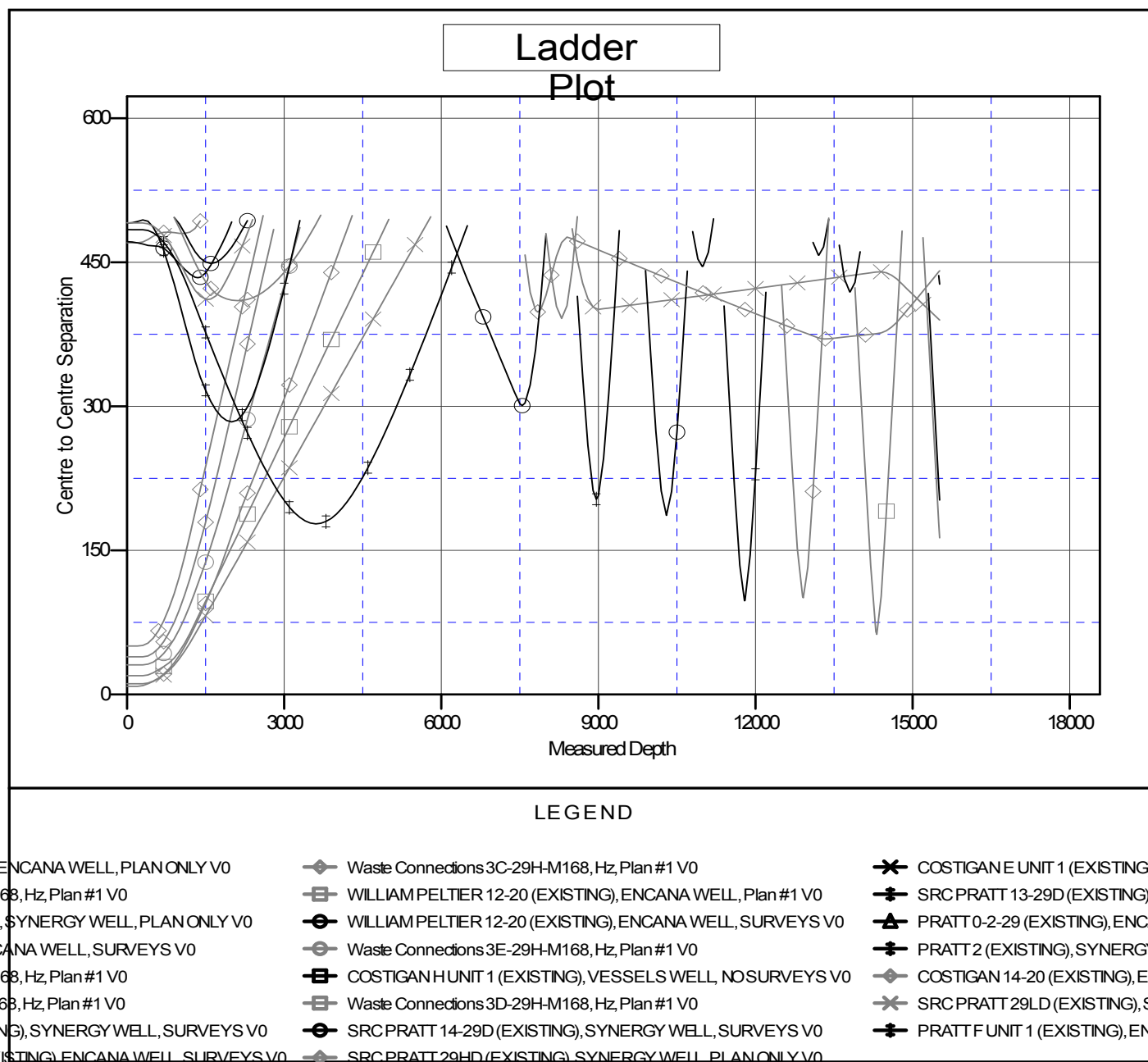
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Waste Connections 3B-29H-M168

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°



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