

## Planning Report

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

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

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

Well	Pratt 4G-29H-P168					
Well Position	+N/-S	0.0 ft	Northing:	1,249,256.52 ft	Latitude:	40.016600
	+E/-W	0.0 ft	Easting:	3,133,785.61 ft	Longitude:	-105.022360
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,176.0 ft

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

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

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,261.8	8.62	129.30	1,258.5	-41.0	50.1	1.00	1.00	0.00	129.30	
7,485.4	8.62	129.30	7,411.9	-631.6	771.7	0.00	0.00	0.00	0.00	
8,440.8	90.00	359.20	8,036.0	-60.4	836.1	10.00	8.52	-13.62	-129.78	
17,590.8	90.00	359.20	8,036.0	9,088.7	708.4	0.00	0.00	0.00	0.00	Pratt 4G-29H-P168 P

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<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	1.00	129.30	500.0	-0.6	0.7	-0.6	1.00	1.00	
600.0	2.00	129.30	600.0	-2.2	2.7	-2.2	1.00	1.00	
700.0	3.00	129.30	699.9	-5.0	6.1	-5.0	1.00	1.00	
789.3	3.89	129.30	789.0	-8.4	10.2	-8.4	1.00	1.00	Fox Hills - BASE
800.0	4.00	129.30	799.7	-8.8	10.8	-8.8	1.00	1.00	
900.0	5.00	129.30	899.4	-13.8	16.9	-13.8	1.00	1.00	
1,000.0	6.00	129.30	998.9	-19.9	24.3	-19.9	1.00	1.00	
1,100.0	7.00	129.30	1,098.3	-27.0	33.0	-27.0	1.00	1.00	
1,200.0	8.00	129.30	1,197.4	-35.3	43.2	-35.3	1.00	1.00	
1,261.8	8.62	129.30	1,258.5	-41.0	50.1	-41.0	1.00	1.00	EOB; Inc=8.62°
1,300.0	8.62	129.30	1,296.3	-44.6	54.5	-44.6	0.00	0.00	
1,400.0	8.62	129.30	1,395.2	-54.1	66.1	-54.1	0.00	0.00	
1,500.0	8.62	129.30	1,494.1	-63.6	77.7	-63.6	0.00	0.00	
1,600.0	8.62	129.30	1,592.9	-73.1	89.3	-73.1	0.00	0.00	
1,700.0	8.62	129.30	1,691.8	-82.6	100.9	-82.6	0.00	0.00	
1,800.0	8.62	129.30	1,790.7	-92.0	112.5	-92.0	0.00	0.00	
1,900.0	8.62	129.30	1,889.5	-101.5	124.1	-101.5	0.00	0.00	
2,000.0	8.62	129.30	1,988.4	-111.0	135.7	-111.0	0.00	0.00	
2,100.0	8.62	129.30	2,087.3	-120.5	147.3	-120.5	0.00	0.00	
2,200.0	8.62	129.30	2,186.2	-130.0	158.9	-130.0	0.00	0.00	
2,300.0	8.62	129.30	2,285.0	-139.5	170.4	-139.5	0.00	0.00	
2,400.0	8.62	129.30	2,383.9	-149.0	182.0	-149.0	0.00	0.00	
2,500.0	8.62	129.30	2,482.8	-158.5	193.6	-158.5	0.00	0.00	
2,600.0	8.62	129.30	2,581.6	-168.0	205.2	-168.0	0.00	0.00	
2,700.0	8.62	129.30	2,680.5	-177.5	216.8	-177.5	0.00	0.00	
2,800.0	8.62	129.30	2,779.4	-186.9	228.4	-186.9	0.00	0.00	
2,900.0	8.62	129.30	2,878.3	-196.4	240.0	-196.4	0.00	0.00	
3,000.0	8.62	129.30	2,977.1	-205.9	251.6	-205.9	0.00	0.00	
3,100.0	8.62	129.30	3,076.0	-215.4	263.2	-215.4	0.00	0.00	
3,200.0	8.62	129.30	3,174.9	-224.9	274.8	-224.9	0.00	0.00	
3,300.0	8.62	129.30	3,273.7	-234.4	286.4	-234.4	0.00	0.00	
3,400.0	8.62	129.30	3,372.6	-243.9	298.0	-243.9	0.00	0.00	
3,500.0	8.62	129.30	3,471.5	-253.4	309.6	-253.4	0.00	0.00	
3,600.0	8.62	129.30	3,570.4	-262.9	321.2	-262.9	0.00	0.00	
3,700.0	8.62	129.30	3,669.2	-272.4	332.8	-272.4	0.00	0.00	
3,800.0	8.62	129.30	3,768.1	-281.9	344.4	-281.9	0.00	0.00	
3,900.0	8.62	129.30	3,867.0	-291.3	356.0	-291.3	0.00	0.00	
4,000.0	8.62	129.30	3,965.8	-300.8	367.6	-300.8	0.00	0.00	
4,100.0	8.62	129.30	4,064.7	-310.3	379.2	-310.3	0.00	0.00	
4,200.0	8.62	129.30	4,163.6	-319.8	390.8	-319.8	0.00	0.00	
4,300.0	8.62	129.30	4,262.5	-329.3	402.4	-329.3	0.00	0.00	
4,400.0	8.62	129.30	4,361.3	-338.8	414.0	-338.8	0.00	0.00	
4,500.0	8.62	129.30	4,460.2	-348.3	425.6	-348.3	0.00	0.00	
4,600.0	8.62	129.30	4,559.1	-357.8	437.1	-357.8	0.00	0.00	
4,700.0	8.62	129.30	4,657.9	-367.3	448.7	-367.3	0.00	0.00	
4,800.0	8.62	129.30	4,756.8	-376.8	460.3	-376.8	0.00	0.00	
4,809.3	8.62	129.30	4,766.0	-377.6	461.4	-377.6	0.00	0.00	Sussex

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<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,900.0	8.62	129.30	4,855.7	-386.2	471.9	-386.2	0.00	0.00	
5,000.0	8.62	129.30	4,954.6	-395.7	483.5	-395.7	0.00	0.00	
5,100.0	8.62	129.30	5,053.4	-405.2	495.1	-405.2	0.00	0.00	
5,125.9	8.62	129.30	5,079.0	-407.7	498.1	-407.7	0.00	0.00	Sussex Marker
5,200.0	8.62	129.30	5,152.3	-414.7	506.7	-414.7	0.00	0.00	
5,300.0	8.62	129.30	5,251.2	-424.2	518.3	-424.2	0.00	0.00	
5,400.0	8.62	129.30	5,350.0	-433.7	529.9	-433.7	0.00	0.00	
5,494.0	8.62	129.30	5,443.0	-442.6	540.8	-442.6	0.00	0.00	Shannon
5,500.0	8.62	129.30	5,448.9	-443.2	541.5	-443.2	0.00	0.00	
5,600.0	8.62	129.30	5,547.8	-452.7	553.1	-452.7	0.00	0.00	
5,700.0	8.62	129.30	5,646.6	-462.2	564.7	-462.2	0.00	0.00	
5,800.0	8.62	129.30	5,745.5	-471.7	576.3	-471.7	0.00	0.00	
5,900.0	8.62	129.30	5,844.4	-481.1	587.9	-481.1	0.00	0.00	
6,000.0	8.62	129.30	5,943.3	-490.6	599.5	-490.6	0.00	0.00	
6,100.0	8.62	129.30	6,042.1	-500.1	611.1	-500.1	0.00	0.00	
6,200.0	8.62	129.30	6,141.0	-509.6	622.7	-509.6	0.00	0.00	
6,300.0	8.62	129.30	6,239.9	-519.1	634.3	-519.1	0.00	0.00	
6,400.0	8.62	129.30	6,338.7	-528.6	645.9	-528.6	0.00	0.00	
6,500.0	8.62	129.30	6,437.6	-538.1	657.5	-538.1	0.00	0.00	
6,563.1	8.62	129.30	6,500.0	-544.1	664.8	-544.1	0.00	0.00	Teepee Buttes (*if present)
6,600.0	8.62	129.30	6,536.5	-547.6	669.1	-547.6	0.00	0.00	
6,700.0	8.62	129.30	6,635.4	-557.1	680.7	-557.1	0.00	0.00	
6,800.0	8.62	129.30	6,734.2	-566.6	692.3	-566.6	0.00	0.00	
6,900.0	8.62	129.30	6,833.1	-576.0	703.8	-576.0	0.00	0.00	
7,000.0	8.62	129.30	6,932.0	-585.5	715.4	-585.5	0.00	0.00	
7,100.0	8.62	129.30	7,030.8	-595.0	727.0	-595.0	0.00	0.00	
7,200.0	8.62	129.30	7,129.7	-604.5	738.6	-604.5	0.00	0.00	
7,300.0	8.62	129.30	7,228.6	-614.0	750.2	-614.0	0.00	0.00	
7,400.0	8.62	129.30	7,327.5	-623.5	761.8	-623.5	0.00	0.00	
7,485.4	8.62	129.30	7,411.9	-631.6	771.7	-631.6	0.00	0.00	Start build/turn @ 7485' MD
7,500.0	7.77	120.99	7,426.3	-632.8	773.4	-632.8	10.00	-5.85	
7,600.0	8.87	47.21	7,525.5	-631.0	784.9	-631.0	10.00	1.10	
7,621.8	10.44	38.19	7,547.0	-628.3	787.3	-628.3	10.00	7.23	Sharon Springs
7,655.5	13.21	28.78	7,580.0	-622.6	791.1	-622.6	10.00	8.23	Niobrara
7,700.0	17.20	21.19	7,623.0	-612.0	795.9	-612.0	10.00	8.96	
7,800.0	26.69	12.53	7,715.6	-576.2	806.2	-576.2	10.00	9.49	
7,869.8	33.48	9.29	7,776.0	-541.8	812.7	-541.8	10.00	9.73	B Chalk
7,884.3	34.90	8.76	7,788.0	-533.8	814.0	-533.8	10.00	9.79	B Marl
7,900.0	36.44	8.23	7,800.7	-524.7	815.3	-524.7	10.00	9.80	
8,000.0	46.29	5.56	7,875.7	-459.2	823.1	-459.2	10.00	9.85	
8,012.1	47.49	5.30	7,884.0	-450.4	823.9	-450.4	10.00	9.87	C Chalk
8,039.5	50.19	4.75	7,902.0	-429.8	825.7	-429.8	10.00	9.88	C Marl
8,100.0	56.18	3.66	7,938.2	-381.6	829.3	-381.6	10.00	9.90	
8,200.0	66.09	2.15	7,986.5	-294.2	833.6	-294.2	10.00	9.91	
8,257.1	71.76	1.39	8,007.0	-241.0	835.3	-241.0	10.00	9.92	Ft. Hayes
8,300.0	76.01	0.85	8,018.9	-199.8	836.1	-199.8	10.00	9.93	
8,333.3	79.32	0.45	8,026.0	-167.3	836.4	-167.3	10.00	9.93	Codell
8,400.0	85.95	359.67	8,034.6	-101.1	836.5	-101.1	10.00	9.93	
8,440.8	90.00	359.20	8,036.0	-60.4	836.1	-60.4	10.00	9.93	LP @ 8036' TVD; 90°
8,500.0	90.00	359.20	8,036.0	-1.2	835.3	-1.2	0.00	0.00	
8,600.0	90.00	359.20	8,036.0	98.8	833.9	98.8	0.00	0.00	
8,700.0	90.00	359.20	8,036.0	198.8	832.5	198.8	0.00	0.00	

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<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #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	359.20	8,036.0	298.8	831.1	298.8	0.00	0.00	
8,900.0	90.00	359.20	8,036.0	398.8	829.7	398.8	0.00	0.00	
9,000.0	90.00	359.20	8,036.0	498.8	828.3	498.8	0.00	0.00	
9,100.0	90.00	359.20	8,036.0	598.8	826.9	598.8	0.00	0.00	
9,200.0	90.00	359.20	8,036.0	698.7	825.5	698.7	0.00	0.00	
9,300.0	90.00	359.20	8,036.0	798.7	824.1	798.7	0.00	0.00	
9,400.0	90.00	359.20	8,036.0	898.7	822.7	898.7	0.00	0.00	
9,500.0	90.00	359.20	8,036.0	998.7	821.3	998.7	0.00	0.00	
9,600.0	90.00	359.20	8,036.0	1,098.7	819.9	1,098.7	0.00	0.00	
9,700.0	90.00	359.20	8,036.0	1,198.7	818.5	1,198.7	0.00	0.00	
9,800.0	90.00	359.20	8,036.0	1,298.7	817.1	1,298.7	0.00	0.00	
9,900.0	90.00	359.20	8,036.0	1,398.7	815.7	1,398.7	0.00	0.00	
10,000.0	90.00	359.20	8,036.0	1,498.7	814.3	1,498.7	0.00	0.00	
10,100.0	90.00	359.20	8,036.0	1,598.7	812.9	1,598.7	0.00	0.00	
10,200.0	90.00	359.20	8,036.0	1,698.6	811.6	1,698.6	0.00	0.00	
10,300.0	90.00	359.20	8,036.0	1,798.6	810.2	1,798.6	0.00	0.00	
10,400.0	90.00	359.20	8,036.0	1,898.6	808.8	1,898.6	0.00	0.00	
10,500.0	90.00	359.20	8,036.0	1,998.6	807.4	1,998.6	0.00	0.00	
10,600.0	90.00	359.20	8,036.0	2,098.6	806.0	2,098.6	0.00	0.00	
10,700.0	90.00	359.20	8,036.0	2,198.6	804.6	2,198.6	0.00	0.00	
10,800.0	90.00	359.20	8,036.0	2,298.6	803.2	2,298.6	0.00	0.00	
10,900.0	90.00	359.20	8,036.0	2,398.6	801.8	2,398.6	0.00	0.00	
11,000.0	90.00	359.20	8,036.0	2,498.6	800.4	2,498.6	0.00	0.00	
11,100.0	90.00	359.20	8,036.0	2,598.6	799.0	2,598.6	0.00	0.00	
11,200.0	90.00	359.20	8,036.0	2,698.5	797.6	2,698.5	0.00	0.00	
11,300.0	90.00	359.20	8,036.0	2,798.5	796.2	2,798.5	0.00	0.00	
11,400.0	90.00	359.20	8,036.0	2,898.5	794.8	2,898.5	0.00	0.00	
11,500.0	90.00	359.20	8,036.0	2,998.5	793.4	2,998.5	0.00	0.00	
11,600.0	90.00	359.20	8,036.0	3,098.5	792.0	3,098.5	0.00	0.00	
11,700.0	90.00	359.20	8,036.0	3,198.5	790.6	3,198.5	0.00	0.00	
11,800.0	90.00	359.20	8,036.0	3,298.5	789.2	3,298.5	0.00	0.00	
11,900.0	90.00	359.20	8,036.0	3,398.5	787.8	3,398.5	0.00	0.00	
12,000.0	90.00	359.20	8,036.0	3,498.5	786.4	3,498.5	0.00	0.00	
12,100.0	90.00	359.20	8,036.0	3,598.5	785.0	3,598.5	0.00	0.00	
12,200.0	90.00	359.20	8,036.0	3,698.5	783.6	3,698.5	0.00	0.00	
12,300.0	90.00	359.20	8,036.0	3,798.4	782.2	3,798.4	0.00	0.00	
12,400.0	90.00	359.20	8,036.0	3,898.4	780.8	3,898.4	0.00	0.00	
12,500.0	90.00	359.20	8,036.0	3,998.4	779.4	3,998.4	0.00	0.00	
12,600.0	90.00	359.20	8,036.0	4,098.4	778.0	4,098.4	0.00	0.00	
12,700.0	90.00	359.20	8,036.0	4,198.4	776.6	4,198.4	0.00	0.00	
12,800.0	90.00	359.20	8,036.0	4,298.4	775.2	4,298.4	0.00	0.00	
12,900.0	90.00	359.20	8,036.0	4,398.4	773.9	4,398.4	0.00	0.00	
13,000.0	90.00	359.20	8,036.0	4,498.4	772.5	4,498.4	0.00	0.00	
13,100.0	90.00	359.20	8,036.0	4,598.4	771.1	4,598.4	0.00	0.00	
13,200.0	90.00	359.20	8,036.0	4,698.4	769.7	4,698.4	0.00	0.00	
13,300.0	90.00	359.20	8,036.0	4,798.3	768.3	4,798.3	0.00	0.00	
13,400.0	90.00	359.20	8,036.0	4,898.3	766.9	4,898.3	0.00	0.00	
13,500.0	90.00	359.20	8,036.0	4,998.3	765.5	4,998.3	0.00	0.00	
13,600.0	90.00	359.20	8,036.0	5,098.3	764.1	5,098.3	0.00	0.00	
13,700.0	90.00	359.20	8,036.0	5,198.3	762.7	5,198.3	0.00	0.00	
13,800.0	90.00	359.20	8,036.0	5,298.3	761.3	5,298.3	0.00	0.00	
13,900.0	90.00	359.20	8,036.0	5,398.3	759.9	5,398.3	0.00	0.00	

## Planning Report

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

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,000.0	90.00	359.20	8,036.0	5,498.3	758.5	5,498.3	0.00	0.00	
14,100.0	90.00	359.20	8,036.0	5,598.3	757.1	5,598.3	0.00	0.00	
14,200.0	90.00	359.20	8,036.0	5,698.3	755.7	5,698.3	0.00	0.00	
14,300.0	90.00	359.20	8,036.0	5,798.2	754.3	5,798.2	0.00	0.00	
14,400.0	90.00	359.20	8,036.0	5,898.2	752.9	5,898.2	0.00	0.00	
14,500.0	90.00	359.20	8,036.0	5,998.2	751.5	5,998.2	0.00	0.00	
14,600.0	90.00	359.20	8,036.0	6,098.2	750.1	6,098.2	0.00	0.00	
14,700.0	90.00	359.20	8,036.0	6,198.2	748.7	6,198.2	0.00	0.00	
14,800.0	90.00	359.20	8,036.0	6,298.2	747.3	6,298.2	0.00	0.00	
14,900.0	90.00	359.20	8,036.0	6,398.2	745.9	6,398.2	0.00	0.00	
15,000.0	90.00	359.20	8,036.0	6,498.2	744.5	6,498.2	0.00	0.00	
15,100.0	90.00	359.20	8,036.0	6,598.2	743.1	6,598.2	0.00	0.00	
15,200.0	90.00	359.20	8,036.0	6,698.2	741.7	6,698.2	0.00	0.00	
15,300.0	90.00	359.20	8,036.0	6,798.1	740.3	6,798.1	0.00	0.00	
15,400.0	90.00	359.20	8,036.0	6,898.1	738.9	6,898.1	0.00	0.00	
15,500.0	90.00	359.20	8,036.0	6,998.1	737.6	6,998.1	0.00	0.00	
15,600.0	90.00	359.20	8,036.0	7,098.1	736.2	7,098.1	0.00	0.00	
15,700.0	90.00	359.20	8,036.0	7,198.1	734.8	7,198.1	0.00	0.00	
15,800.0	90.00	359.20	8,036.0	7,298.1	733.4	7,298.1	0.00	0.00	
15,900.0	90.00	359.20	8,036.0	7,398.1	732.0	7,398.1	0.00	0.00	
16,000.0	90.00	359.20	8,036.0	7,498.1	730.6	7,498.1	0.00	0.00	
16,100.0	90.00	359.20	8,036.0	7,598.1	729.2	7,598.1	0.00	0.00	
16,200.0	90.00	359.20	8,036.0	7,698.1	727.8	7,698.1	0.00	0.00	
16,300.0	90.00	359.20	8,036.0	7,798.1	726.4	7,798.1	0.00	0.00	
16,400.0	90.00	359.20	8,036.0	7,898.0	725.0	7,898.0	0.00	0.00	
16,500.0	90.00	359.20	8,036.0	7,998.0	723.6	7,998.0	0.00	0.00	
16,600.0	90.00	359.20	8,036.0	8,098.0	722.2	8,098.0	0.00	0.00	
16,700.0	90.00	359.20	8,036.0	8,198.0	720.8	8,198.0	0.00	0.00	
16,800.0	90.00	359.20	8,036.0	8,298.0	719.4	8,298.0	0.00	0.00	
16,900.0	90.00	359.20	8,036.0	8,398.0	718.0	8,398.0	0.00	0.00	
17,000.0	90.00	359.20	8,036.0	8,498.0	716.6	8,498.0	0.00	0.00	
17,100.0	90.00	359.20	8,036.0	8,598.0	715.2	8,598.0	0.00	0.00	
17,200.0	90.00	359.20	8,036.0	8,698.0	713.8	8,698.0	0.00	0.00	
17,300.0	90.00	359.20	8,036.0	8,798.0	712.4	8,798.0	0.00	0.00	
17,400.0	90.00	359.20	8,036.0	8,897.9	711.0	8,897.9	0.00	0.00	
17,500.0	90.00	359.20	8,036.0	8,997.9	709.6	8,997.9	0.00	0.00	
17,590.8	90.00	359.20	8,036.0	9,088.7	708.4	9,088.7	0.00	0.00	TD at 17590.8 - Pratt 4G-29H-P168 PBHL

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Pratt 4G-29H-P168 PBH	0.00	0.00	8,036.0	9,088.7	708.4	1,258,348.95	3,134,445.00	40.041550	-105.019830
- plan hits target center									
- Point									

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<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 (°)	
789.3	789.0	Fox Hills - BASE				
4,809.3	4,766.0	Sussex				
5,125.9	5,079.0	Sussex Marker				
5,494.0	5,443.0	Shannon				
6,563.1	6,500.0	Teepee Buttes (*if present)				
7,621.8	7,547.0	Sharon Springs				
7,655.5	7,580.0	Niobrara				
7,869.8	7,776.0	B Chalk				
7,884.3	7,788.0	B Marl				
8,012.1	7,884.0	C Chalk				
8,039.5	7,902.0	C Marl				
8,257.1	8,007.0	Ft. Hayes				
8,333.3	8,026.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP @ 400'	
1,261.8	1,258.5	-41.0	50.1	EOB; Inc=8.62°	
7,485.4	7,411.9	-631.6	771.7	Start build/turn @ 7485' MD	
8,440.8	8,036.0	-60.4	836.1	LP @ 8036' TVD; 90°	
17,590.8	8,036.0	9,088.7	708.4	TD at 17590.8	

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

**DJ Wattenberg**

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

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

**Hz**

**Plan #1**

## **Anticollision Report**

**31 May, 2013**



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>		<b>Date</b>	5/31/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	17,590.8	Plan #1 (Hz)	MWD	Geolink MWD	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S29-T1N-R68W (Pratt/Waste Connections)						
COSTIGAN 0-6-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 0-8-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 13-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 14-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 23-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 24-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 33-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 34-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 43-20 (EXISTING) - ENCANA WELL - PLAN	15,126.0	8,169.3	109.4	-32.1	0.773	Level 1, CC, ES, SF
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	14,471.1	8,176.5	315.2	192.2	2.562	CC, ES, SF
COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SUR	13,234.5	8,271.9	265.3	158.4	2.482	CC, ES, SF
COSTIGAN E UNIT 1 (EXISTING) - ENCANA WELL - NO						Out of range
COSTIGAN H UNIT 1 (EXISTING) - VESSELS WELL - N						Out of range
EDWARD P COSTIGAN 1 (EXISTING) - ENCANA WELL						Out of range
M E DRIER 1 (EXISTING) - SYNERGY WELL - NO SUR						Out of range
PRATT 0-2-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
PRATT 1 (EXISTING) - SYNERGY WELL - NO SURVEY						Out of range
PRATT 12-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEY						Out of range
PRATT 2-0-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
PRATT 21-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 22-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 2-4-29 (EXISTING) - ENCANA WELL - PLAN ON						Out of range
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV	400.0	388.0	307.1	305.7	226.988	CC, ES
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV	2,500.0	2,470.8	494.1	484.9	53.608	SF
PRATT 4-2-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Pratt 4B-29H-P168 - Hz - Plan #1	300.0	300.0	47.6	46.6	47.528	CC, ES
Pratt 4B-29H-P168 - Hz - Plan #1	700.0	696.3	65.2	62.8	27.087	SF
Pratt 4C-29H-P168 - Hz - Plan #1	400.0	400.0	39.2	37.9	29.027	CC, ES
Pratt 4C-29H-P168 - Hz - Plan #1	700.0	698.6	49.4	47.0	20.490	SF
Pratt 4D-29H-P168 - Hz - Plan #1	400.0	400.0	28.0	26.7	20.734	CC, ES
Pratt 4D-29H-P168 - Hz - Plan #1	700.0	699.3	35.9	33.5	14.943	SF
Pratt 4E-29H-P168 - Hz - Plan #1	400.0	400.0	19.6	18.3	14.513	CC, ES
Pratt 4E-29H-P168 - Hz - Plan #1	700.0	699.9	26.2	23.8	10.903	SF
Pratt 4F-29H-P168 - Hz - Plan #1	400.0	400.0	8.4	7.1	6.220	CC, ES
Pratt 4F-29H-P168 - Hz - Plan #1	600.0	600.1	10.7	8.7	5.237	SF
PRATT F UNIT 1 (EXISTING) - ENCANA WELL - NO SU						Out of range
SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 14-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL -						Out of range
SRC PRATT 29HD (EXISTING) - SYNERGY WELL - PL						Out of range
SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLA						Out of range
SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SU	565.7	578.5	316.0	313.9	148.987	CC, ES
SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SU	1,300.0	1,228.1	451.6	445.7	77.339	SF
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL						Out of range
SRC PRATT 29SD (EXISTING) - SYNERGY WELL - SU						Out of range
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU	2,328.6	2,380.0	228.8	219.2	23.822	CC, ES
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU	3,200.0	3,225.5	302.5	285.9	18.195	SF
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLA	9,152.7	8,148.3	273.5	238.2	7.753	CC, ES
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLA	9,200.0	8,148.3	277.6	241.7	7.747	SF
SRC PRATT 31-29D (EXISTING) - SYNERGY WELL - S						Out of range

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S29-T1N-R68W (Pratt/Waste Connections)						
SRC PRATT 32-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -	0.0	3.0	342.1			
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -	100.0	102.5	342.2	341.9	1,095.143	ES
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -	1,500.0	1,415.5	494.4	489.1	93.580	SF
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S	482.5	475.5	316.6	314.9	191.858	CC
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S	500.0	493.1	316.6	314.9	185.034	ES
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S	2,200.0	2,162.8	484.1	475.7	57.774	SF
SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - S	12,550.1	8,201.7	373.5	276.6	3.855	CC, ES
SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - S	12,600.0	8,202.7	376.8	279.1	3.855	SF
SRC PRATT 42-29D (EXISTING) - SYNERGY WELL - S	11,028.2	8,146.9	175.2	110.4	2.704	CC, ES, SF
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S	9,876.2	8,198.7	267.9	214.9	5.051	CC, ES
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S	9,900.0	8,198.7	269.0	215.6	5.037	SF
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P	400.0	392.0	276.3	275.0	203.235	CC
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P	500.0	492.0	276.6	274.9	161.824	ES
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P	5,200.0	5,206.9	316.4	286.9	10.719	SF
Waste Connections 3A-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3B-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3C-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3D-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3E-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3F-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3G-29H-M168 - Hz - Plan #1						Out of range
WILLIAM H PELTIER 1 (EXISTING) - VESSELS WELL -						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						Out of range
WILLIAM PELTIER 12-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	17,500.0	7,988.0	349.8	298.2	6.777	SF
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	17,565.6	7,980.0	343.7	294.4	6.976	CC, ES
WILLIAM PELTIER 2-0-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 22-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 2-4-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 4-2-20 (EXISTING) - ENCANA WELL						Out of range

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 43-20 (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	
14,700.0	8,036.0	8,169.3	8,060.0	112.3	25.0	-90.00	6,622.6	633.4	439.8	305.7	134.10	3.280	
14,800.0	8,036.0	8,169.3	8,060.0	114.0	25.0	-90.00	6,622.6	633.4	343.8	208.0	135.84	2.531	
14,900.0	8,036.0	8,169.3	8,060.0	115.8	25.0	-90.00	6,622.6	633.4	251.1	113.5	137.58	1.825	
15,000.0	8,036.0	8,169.3	8,060.0	117.5	25.0	-90.00	6,622.6	633.4	166.9	27.5	139.32	1.198	Level 2
15,100.0	8,036.0	8,169.3	8,060.0	119.2	25.0	-90.00	6,622.6	633.4	112.5	-28.6	141.06	0.797	Level 1
15,126.0	8,036.0	8,169.3	8,060.0	119.7	25.0	-90.00	6,622.6	633.4	109.4	-32.1	141.52	0.773	Level 1, CC, ES, SF
15,200.0	8,036.0	8,169.3	8,060.0	121.0	25.0	-90.00	6,622.6	633.4	132.1	-10.7	142.80	0.925	Level 1
15,300.0	8,036.0	8,169.3	8,060.0	122.7	25.0	-90.00	6,622.6	633.4	205.6	61.0	144.55	1.422	Level 3
15,400.0	8,036.0	8,169.3	8,060.0	124.4	25.0	-90.00	6,622.6	633.4	295.1	148.8	146.29	2.017	
15,500.0	8,036.0	8,169.3	8,060.0	126.1	25.0	-90.00	6,622.6	633.4	389.7	241.7	148.03	2.633	
15,600.0	8,036.0	8,169.3	8,060.0	127.9	25.0	-90.00	6,622.6	633.4	486.5	336.7	149.77	3.248	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 8-6-20 (EXISTING) - ENCANA WELL - SURV			Offset Site Error:		0.0 ft
Survey Program: 134-MWD														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance									
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	Warning			
14,100.0	8,036.0	8,173.7	8,050.3	102.0	23.9	88.24	5,973.7	1,066.9	486.9	370.3	116.56	4.177				
14,200.0	8,036.0	8,174.5	8,051.0	103.7	23.9	88.37	5,973.7	1,067.0	415.8	297.5	118.30	3.514				
14,300.0	8,036.0	8,175.2	8,051.8	105.4	23.9	88.50	5,973.7	1,067.0	358.7	238.6	120.04	2.988				
14,400.0	8,036.0	8,175.9	8,052.5	107.2	23.9	88.64	5,973.7	1,067.0	323.1	201.3	121.78	2.653				
14,471.1	8,036.0	8,176.5	8,053.0	108.4	23.9	88.73	5,973.8	1,067.0	315.2	192.2	123.02	2.562	CC, ES, SF			
14,500.0	8,036.0	8,176.7	8,053.2	108.9	23.9	88.77	5,973.8	1,067.0	316.5	193.0	123.52	2.562				
14,600.0	8,036.0	8,177.4	8,054.0	110.6	23.9	88.90	5,973.8	1,067.0	340.5	215.3	125.27	2.718				
14,700.0	8,036.0	8,178.1	8,054.7	112.3	23.9	89.03	5,973.8	1,067.0	389.5	262.5	127.01	3.067				
14,800.0	8,036.0	8,178.8	8,055.4	114.0	23.9	89.17	5,973.8	1,067.1	455.5	326.8	128.75	3.538				

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design										S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SURV				Offset Site Error:		0.0 ft			
Survey Program: 104-MWD																Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance												
Measured 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	Warning						
12,900.0	8,036.0	8,271.4	8,068.6	81.5	26.8	89.05	4,736.5	1,034.4	426.9	325.8	101.11	4.222							
13,000.0	8,036.0	8,271.6	8,068.7	83.2	26.8	89.08	4,736.5	1,034.4	354.0	251.2	102.84	3.443							
13,100.0	8,036.0	8,271.7	8,068.9	84.9	26.8	89.11	4,736.5	1,034.4	297.4	192.8	104.57	2.844							
13,200.0	8,036.0	8,271.9	8,069.0	86.6	26.8	89.15	4,736.5	1,034.4	267.5	161.2	106.29	2.517							
13,234.5	8,036.0	8,271.9	8,069.1	87.2	26.8	89.16	4,736.5	1,034.4	265.3	158.4	106.89	2.482	CC, ES, SF						
13,300.0	8,036.0	8,272.0	8,069.2	88.3	26.8	89.18	4,736.5	1,034.4	273.2	165.2	108.02	2.529							
13,400.0	8,036.0	8,272.2	8,069.3	90.0	26.8	89.21	4,736.5	1,034.4	312.7	202.9	109.75	2.849							
13,500.0	8,036.0	8,272.3	8,069.5	91.7	26.8	89.24	4,736.5	1,034.4	375.3	263.8	111.48	3.367							
13,600.0	8,036.0	8,272.5	8,069.6	93.4	26.8	89.28	4,736.5	1,034.4	451.6	338.4	113.21	3.989							

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 8615-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	4.71	306.0	25.2	307.3					
100.0	100.0	88.0	88.0	0.2	0.2	4.71	306.0	25.2	307.1	306.8	0.31	1,004.722		
200.0	200.0	188.0	188.0	0.3	0.3	4.71	306.0	25.2	307.1	306.4	0.65	469.034		
300.0	300.0	288.0	288.0	0.5	0.5	4.71	306.0	25.2	307.1	306.1	1.00	305.924		
400.0	400.0	388.0	388.0	0.7	0.7	4.71	306.0	25.2	307.1	305.7	1.35	226.988 CC, ES		
500.0	500.0	488.0	488.0	0.9	0.9	-124.72	306.0	25.2	307.6	305.9	1.70	180.691		
600.0	600.0	588.0	588.0	1.0	1.0	-125.11	306.0	25.2	309.1	307.0	2.05	150.518		
700.0	699.9	687.9	687.9	1.2	1.2	-125.74	306.0	25.2	311.6	309.2	2.41	129.385		
800.0	799.7	787.7	787.7	1.4	1.4	-126.61	306.0	25.2	315.2	312.4	2.77	113.839		
900.0	899.4	887.4	887.4	1.6	1.5	-127.70	306.0	25.2	320.0	316.8	3.14	102.010		
1,000.0	998.9	986.9	986.9	1.8	1.7	-128.98	306.0	25.2	325.9	322.4	3.51	92.799		
1,100.0	1,098.3	1,086.3	1,086.3	2.1	1.9	-130.43	306.0	25.2	333.2	329.3	3.90	85.523		
1,200.0	1,197.4	1,185.4	1,185.4	2.3	2.1	-132.03	306.0	25.2	341.8	337.5	4.29	79.732		
1,300.0	1,296.3	1,284.3	1,284.3	2.6	2.2	-133.75	306.0	25.2	351.9	347.2	4.68	75.137		
1,400.0	1,395.2	1,383.2	1,383.2	2.9	2.4	-135.45	306.0	25.2	362.4	357.4	5.08	71.373		
1,500.0	1,494.1	1,482.1	1,482.1	3.2	2.6	-137.05	306.0	25.2	373.3	367.9	5.47	68.242		
1,600.0	1,592.9	1,580.9	1,580.9	3.5	2.8	-138.57	306.0	25.2	384.5	378.6	5.86	65.613		
1,700.0	1,691.8	1,679.8	1,679.8	3.8	2.9	-140.00	306.0	25.2	395.9	389.6	6.25	63.388		
1,800.0	1,790.7	1,778.7	1,778.7	4.1	3.1	-141.34	306.0	25.2	407.5	400.9	6.63	61.489		
1,900.0	1,889.5	1,877.5	1,877.5	4.4	3.3	-142.62	306.0	25.2	419.4	412.4	7.01	59.857		
2,000.0	1,988.4	1,976.4	1,976.4	4.7	3.4	-143.82	306.0	25.2	431.4	424.1	7.38	58.445		
2,100.0	2,087.3	2,075.3	2,075.3	5.0	3.6	-144.96	306.0	25.2	443.7	435.9	7.75	57.215		
2,200.0	2,186.2	2,174.2	2,174.2	5.3	3.8	-146.04	306.0	25.2	456.1	447.9	8.12	56.138		
2,300.0	2,285.0	2,273.0	2,273.0	5.6	4.0	-147.06	306.0	25.2	468.6	460.1	8.49	55.191		
2,400.0	2,383.9	2,371.9	2,371.9	6.0	4.1	-148.02	306.0	25.2	481.3	472.4	8.86	54.352		
2,500.0	2,482.8	2,470.8	2,470.8	6.3	4.3	-148.94	306.0	25.2	494.1	484.9	9.22	53.608 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4B-29H-P168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-47.6	47.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-47.6	47.6	47.3	0.30	156.788		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-47.6	47.6	47.0	0.65	72.944		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-47.6	47.6	46.6	1.00	47.528	CC, ES	
400.0	400.0	399.3	399.3	0.7	0.7	-90.52	-0.4	-48.3	48.3	47.0	1.35	35.793		
500.0	500.0	498.5	498.5	0.9	0.9	139.18	-1.9	-50.5	51.2	49.5	1.70	30.121		
600.0	600.0	597.6	597.5	1.0	1.0	138.52	-4.3	-54.0	56.8	54.7	2.05	27.700		
700.0	699.9	696.3	696.0	1.2	1.2	138.18	-7.7	-58.9	65.2	62.8	2.41	27.087	SF	
800.0	799.7	794.7	794.1	1.4	1.4	138.09	-12.0	-65.3	76.3	73.6	2.77	27.558		
900.0	899.4	892.5	891.5	1.6	1.7	138.16	-17.2	-72.9	90.2	87.1	3.14	28.709		
1,000.0	998.9	989.7	988.0	1.8	1.9	138.31	-23.3	-81.9	106.8	103.3	3.53	30.291		
1,100.0	1,098.3	1,086.2	1,083.7	2.1	2.2	138.49	-30.2	-92.2	126.1	122.2	3.92	32.145		
1,200.0	1,197.4	1,181.8	1,178.3	2.3	2.4	138.68	-38.0	-103.6	148.0	143.7	4.33	34.161		
1,300.0	1,296.3	1,276.5	1,271.8	2.6	2.7	138.89	-46.6	-116.3	172.5	167.8	4.76	36.247		
1,400.0	1,395.2	1,370.8	1,364.6	2.9	3.0	138.93	-56.0	-130.1	198.6	193.4	5.20	38.208		
1,500.0	1,494.1	1,467.2	1,459.4	3.2	3.4	138.87	-66.0	-144.8	225.2	219.5	5.65	39.875		
1,600.0	1,592.9	1,563.6	1,554.1	3.5	3.7	138.82	-76.0	-159.5	251.8	245.7	6.10	41.268		
1,700.0	1,691.8	1,660.0	1,648.9	3.8	4.0	138.78	-86.0	-174.1	278.4	271.8	6.56	42.444		
1,800.0	1,790.7	1,756.4	1,743.6	4.1	4.4	138.75	-95.9	-188.8	305.0	297.9	7.02	43.450		
1,900.0	1,889.5	1,852.8	1,838.4	4.4	4.7	138.73	-105.9	-203.5	331.5	324.1	7.48	44.318		
2,000.0	1,988.4	1,949.2	1,933.1	4.7	5.1	138.71	-115.9	-218.1	358.1	350.2	7.95	45.074		
2,100.0	2,087.3	2,045.6	2,027.9	5.0	5.4	138.69	-125.8	-232.8	384.7	376.3	8.41	45.737		
2,200.0	2,186.2	2,142.0	2,122.6	5.3	5.8	138.67	-135.8	-247.5	411.3	402.4	8.88	46.324		
2,300.0	2,285.0	2,238.4	2,217.4	5.6	6.1	138.66	-145.8	-262.2	437.9	428.6	9.35	46.846		
2,400.0	2,383.9	2,334.8	2,312.1	6.0	6.5	138.64	-155.8	-276.8	464.5	454.7	9.82	47.314		
2,500.0	2,482.8	2,431.2	2,406.9	6.3	6.8	138.63	-165.7	-291.5	491.1	480.8	10.29	47.735		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4C-29H-P168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-39.2	39.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-39.2	39.2	38.9	0.30	129.120		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-39.2	39.2	38.6	0.65	60.072		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-39.2	39.2	38.2	1.00	39.141		
400.0	400.0	400.0	400.0	0.7	0.7	-89.95	0.0	-39.2	39.2	37.9	1.35	29.027 CC, ES		
500.0	500.0	499.6	499.6	0.9	0.8	140.47	-0.7	-39.7	40.3	38.6	1.70	23.732		
600.0	600.0	599.2	599.1	1.0	1.0	139.73	-2.9	-41.0	43.7	41.7	2.05	21.313		
700.0	699.9	698.6	698.5	1.2	1.2	138.71	-6.6	-43.3	49.4	47.0	2.41	20.490 SF		
800.0	799.7	797.8	797.4	1.4	1.4	137.61	-11.8	-46.4	57.3	54.5	2.78	20.626		
900.0	899.4	896.6	896.0	1.6	1.6	136.57	-18.3	-50.4	67.5	64.3	3.16	21.357		
1,000.0	998.9	995.1	994.0	1.8	1.8	135.65	-26.3	-55.3	80.0	76.4	3.56	22.459		
1,100.0	1,098.3	1,093.6	1,092.0	2.1	2.1	134.99	-35.6	-60.9	94.5	90.6	3.98	23.766		
1,200.0	1,197.4	1,192.4	1,190.1	2.3	2.3	135.05	-44.9	-66.6	110.4	106.0	4.41	25.040		
1,300.0	1,296.3	1,290.9	1,288.0	2.6	2.5	135.62	-54.3	-72.3	127.4	122.6	4.85	26.259		
1,400.0	1,395.2	1,389.4	1,385.9	2.9	2.8	136.21	-63.6	-78.0	144.7	139.4	5.30	27.281		
1,500.0	1,494.1	1,487.9	1,483.8	3.2	3.0	136.67	-73.0	-83.7	162.0	156.2	5.76	28.124		
1,600.0	1,592.9	1,586.4	1,581.7	3.5	3.3	137.05	-82.3	-89.4	179.2	173.0	6.22	28.830		
1,700.0	1,691.8	1,684.9	1,679.5	3.8	3.5	137.36	-91.6	-95.1	196.5	189.8	6.68	29.428		
1,800.0	1,790.7	1,783.4	1,777.4	4.1	3.8	137.61	-101.0	-100.7	213.8	206.7	7.14	29.941		
1,900.0	1,889.5	1,881.8	1,875.3	4.4	4.0	137.83	-110.3	-106.4	231.1	223.5	7.61	30.385		
2,000.0	1,988.4	1,980.3	1,973.2	4.7	4.3	138.02	-119.7	-112.1	248.4	240.3	8.07	30.773		
2,100.0	2,087.3	2,078.8	2,071.1	5.0	4.5	138.19	-129.0	-117.8	265.7	257.2	8.54	31.115		
2,200.0	2,186.2	2,177.3	2,168.9	5.3	4.8	138.33	-138.4	-123.5	283.0	274.0	9.01	31.418		
2,300.0	2,285.0	2,275.8	2,266.8	5.6	5.0	138.46	-147.7	-129.2	300.3	290.8	9.48	31.689		
2,400.0	2,383.9	2,374.3	2,364.7	6.0	5.3	138.57	-157.1	-134.9	317.6	307.7	9.95	31.931		
2,500.0	2,482.8	2,472.8	2,462.6	6.3	5.5	138.68	-166.4	-140.6	334.9	324.5	10.42	32.150		
2,600.0	2,581.6	2,571.3	2,560.5	6.6	5.8	138.77	-175.8	-146.3	352.2	341.4	10.89	32.349		
2,700.0	2,680.5	2,669.8	2,658.3	6.9	6.0	138.85	-185.1	-152.0	369.6	358.2	11.36	32.530		
2,800.0	2,779.4	2,768.2	2,756.2	7.2	6.3	138.93	-194.4	-157.7	386.9	375.0	11.83	32.696		
2,900.0	2,878.3	2,866.7	2,854.1	7.5	6.6	139.00	-203.8	-163.4	404.2	391.9	12.30	32.847		
3,000.0	2,977.1	2,965.2	2,952.0	7.8	6.8	139.06	-213.1	-169.1	421.5	408.7	12.78	32.987		
3,100.0	3,076.0	3,063.7	3,049.9	8.1	7.1	139.12	-222.5	-174.7	438.8	425.5	13.25	33.117		
3,200.0	3,174.9	3,162.2	3,147.7	8.5	7.3	139.17	-231.8	-180.4	456.1	442.4	13.72	33.236		
3,300.0	3,273.7	3,260.7	3,245.6	8.8	7.6	139.22	-241.2	-186.1	473.4	459.2	14.20	33.347		
3,400.0	3,372.6	3,359.2	3,343.5	9.1	7.8	139.27	-250.5	-191.8	490.7	476.1	14.67	33.451		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-28.0	28.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-28.0	28.0	27.7	0.30	92.228		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-28.0	28.0	27.4	0.65	42.908		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-28.0	28.0	27.0	1.00	27.958		
400.0	400.0	400.0	400.0	0.7	0.7	-89.95	0.0	-28.0	28.0	26.7	1.35	20.734 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	141.85	0.0	-28.0	28.7	27.0	1.70	16.876		
600.0	600.0	599.7	599.7	1.0	1.0	143.40	-0.7	-28.5	31.2	29.1	2.05	15.215		
700.0	699.9	699.3	699.3	1.2	1.2	143.79	-3.0	-29.8	35.9	33.5	2.40	14.943 SF		
800.0	799.7	798.8	798.6	1.4	1.4	143.36	-6.8	-32.0	42.8	40.1	2.76	15.500		
900.0	899.4	898.0	897.6	1.6	1.6	142.47	-12.0	-35.1	52.0	48.9	3.14	16.576		
1,000.0	998.9	997.2	996.6	1.8	1.8	141.70	-18.5	-38.8	63.2	59.7	3.52	17.946		
1,100.0	1,098.3	1,096.4	1,095.5	2.1	2.0	141.88	-25.0	-42.7	75.8	71.9	3.91	19.364		
1,200.0	1,197.4	1,195.4	1,194.2	2.3	2.2	142.67	-31.5	-46.5	89.8	85.5	4.32	20.804		
1,300.0	1,296.3	1,294.2	1,292.7	2.6	2.4	143.79	-38.1	-50.3	105.1	100.3	4.72	22.246		
1,400.0	1,395.2	1,392.9	1,391.2	2.9	2.6	144.75	-44.6	-54.1	120.6	115.5	5.13	23.496		
1,500.0	1,494.1	1,491.7	1,489.6	3.2	2.8	145.50	-51.1	-57.9	136.2	130.7	5.55	24.554		
1,600.0	1,592.9	1,590.5	1,588.1	3.5	3.0	146.09	-57.6	-61.7	151.9	145.9	5.96	25.462		
1,700.0	1,691.8	1,689.2	1,686.6	3.8	3.2	146.58	-64.1	-65.5	167.5	161.1	6.38	26.247		
1,800.0	1,790.7	1,788.0	1,785.1	4.1	3.4	146.98	-70.6	-69.4	183.2	176.4	6.80	26.932		
1,900.0	1,889.5	1,886.7	1,883.5	4.4	3.7	147.31	-77.2	-73.2	198.8	191.6	7.22	27.536		
2,000.0	1,988.4	1,985.5	1,982.0	4.7	3.9	147.60	-83.7	-77.0	214.5	206.9	7.64	28.071		
2,100.0	2,087.3	2,084.3	2,080.5	5.0	4.1	147.85	-90.2	-80.8	230.2	222.1	8.06	28.549		
2,200.0	2,186.2	2,183.0	2,178.9	5.3	4.3	148.07	-96.7	-84.6	245.8	237.4	8.48	28.978		
2,300.0	2,285.0	2,281.8	2,277.4	5.6	4.5	148.26	-103.2	-88.4	261.5	252.6	8.91	29.365		
2,400.0	2,383.9	2,380.5	2,375.9	6.0	4.7	148.43	-109.7	-92.2	277.2	267.9	9.33	29.716		
2,500.0	2,482.8	2,479.3	2,474.4	6.3	4.9	148.58	-116.3	-96.1	292.9	283.1	9.75	30.036		
2,600.0	2,581.6	2,578.1	2,572.8	6.6	5.2	148.71	-122.8	-99.9	308.6	298.4	10.17	30.328		
2,700.0	2,680.5	2,676.8	2,671.3	6.9	5.4	148.84	-129.3	-103.7	324.2	313.6	10.60	30.596		
2,800.0	2,779.4	2,775.6	2,769.8	7.2	5.6	148.95	-135.8	-107.5	339.9	328.9	11.02	30.844		
2,900.0	2,878.3	2,874.3	2,868.2	7.5	5.8	149.05	-142.3	-111.3	355.6	344.2	11.44	31.072		
3,000.0	2,977.1	2,973.1	2,966.7	7.8	6.0	149.14	-148.8	-115.1	371.3	359.4	11.87	31.284		
3,100.0	3,076.0	3,071.9	3,065.2	8.1	6.2	149.23	-155.4	-118.9	387.0	374.7	12.29	31.481		
3,200.0	3,174.9	3,170.6	3,163.6	8.5	6.4	149.31	-161.9	-122.7	402.7	390.0	12.72	31.664		
3,300.0	3,273.7	3,269.4	3,262.1	8.8	6.7	149.38	-168.4	-126.6	418.4	405.2	13.14	31.835		
3,400.0	3,372.6	3,368.1	3,360.6	9.1	6.9	149.45	-174.9	-130.4	434.1	420.5	13.57	31.996		
3,500.0	3,471.5	3,466.9	3,459.1	9.4	7.1	149.51	-181.4	-134.2	449.7	435.8	13.99	32.146		
3,600.0	3,570.4	3,565.7	3,557.5	9.7	7.3	149.57	-187.9	-138.0	465.4	451.0	14.42	32.287		
3,700.0	3,669.2	3,664.4	3,656.0	10.0	7.5	149.62	-194.4	-141.8	481.1	466.3	14.84	32.420		
3,800.0	3,768.1	3,763.2	3,754.5	10.3	7.7	149.67	-201.0	-145.6	496.8	481.6	15.27	32.546		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-19.6	19.6	19.3	0.30	64.560		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-19.6	19.6	19.0	0.65	30.036		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-19.6	19.6	18.6	1.00	19.570		
400.0	400.0	400.0	400.0	0.7	0.7	-89.95	0.0	-19.6	19.6	18.3	1.35	14.513 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	142.31	0.0	-19.6	20.3	18.6	1.70	11.935		
600.0	600.0	600.0	600.0	1.0	1.0	146.39	0.0	-19.6	22.4	20.4	2.05	10.937		
700.0	699.9	699.9	699.9	1.2	1.2	151.66	0.0	-19.6	26.2	23.8	2.40	10.903 SF		
800.0	799.7	799.7	799.7	1.4	1.4	156.89	0.0	-19.6	31.7	28.9	2.75	11.521		
900.0	899.4	899.4	899.4	1.6	1.5	161.39	0.0	-19.6	39.0	35.9	3.10	12.598		
1,000.0	998.9	998.9	998.9	1.8	1.7	165.01	0.0	-19.6	48.2	44.8	3.44	13.999		
1,100.0	1,098.3	1,098.3	1,098.3	2.1	1.9	167.82	0.0	-19.6	59.2	55.4	3.79	15.634		
1,200.0	1,197.4	1,197.4	1,197.4	2.3	2.1	169.99	0.0	-19.6	72.0	67.9	4.13	17.442		
1,300.0	1,296.3	1,296.3	1,296.3	2.6	2.2	171.66	0.0	-19.6	86.5	82.0	4.47	19.341		
1,400.0	1,395.2	1,395.2	1,395.2	2.9	2.4	172.89	0.0	-19.6	101.3	96.5	4.82	21.033		
1,500.0	1,494.1	1,494.1	1,494.1	3.2	2.6	173.80	0.0	-19.6	116.2	111.1	5.16	22.506		
1,600.0	1,592.9	1,592.9	1,592.9	3.5	2.8	174.51	0.0	-19.6	131.1	125.6	5.51	23.798		
1,700.0	1,691.8	1,691.8	1,691.8	3.8	2.9	175.07	0.0	-19.6	146.1	140.2	5.86	24.939		
1,800.0	1,790.7	1,790.7	1,790.7	4.1	3.1	175.53	0.0	-19.6	161.0	154.8	6.20	25.955		
1,900.0	1,889.5	1,889.5	1,889.5	4.4	3.3	175.91	0.0	-19.6	175.9	169.4	6.55	26.865		
2,000.0	1,988.4	1,988.4	1,988.4	4.7	3.4	176.23	0.0	-19.6	190.9	184.0	6.90	27.685		
2,100.0	2,087.3	2,089.9	2,089.9	5.0	3.6	176.40	-0.7	-19.4	205.3	198.0	7.25	28.330		
2,200.0	2,186.2	2,192.1	2,192.1	5.3	3.8	176.27	-3.0	-18.6	218.3	210.7	7.60	28.717		
2,300.0	2,285.0	2,294.7	2,294.6	5.6	4.0	175.88	-7.2	-17.2	229.8	221.8	7.96	28.878		
2,400.0	2,383.9	2,397.6	2,397.3	6.0	4.2	175.27	-13.0	-15.2	239.9	231.6	8.32	28.839		
2,500.0	2,482.8	2,500.7	2,500.0	6.3	4.4	174.45	-20.7	-12.6	248.6	239.9	8.69	28.624		
2,600.0	2,581.6	2,603.9	2,602.8	6.6	4.6	173.43	-30.1	-9.4	255.9	246.9	9.06	28.248		
2,700.0	2,680.5	2,707.2	2,705.4	6.9	4.8	172.21	-41.2	-5.6	262.0	252.5	9.45	27.730		
2,800.0	2,779.4	2,808.6	2,806.0	7.2	5.0	170.85	-53.7	-1.3	266.9	257.1	9.84	27.117		
2,900.0	2,878.3	2,908.3	2,904.8	7.5	5.2	169.54	-66.1	2.9	271.9	261.6	10.25	26.534		
3,000.0	2,977.1	3,008.0	3,003.6	7.8	5.5	168.27	-78.5	7.1	277.0	266.3	10.66	25.985		
3,100.0	3,076.0	3,107.7	3,102.4	8.1	5.7	167.04	-90.9	11.4	282.2	271.1	11.08	25.466		
3,200.0	3,174.9	3,207.3	3,201.2	8.5	5.9	165.87	-103.3	15.6	287.5	276.0	11.51	24.975		
3,300.0	3,273.7	3,307.0	3,300.1	8.8	6.2	164.73	-115.8	19.8	293.0	281.0	11.95	24.511		
3,400.0	3,372.6	3,406.7	3,398.9	9.1	6.4	163.64	-128.2	24.0	298.6	286.2	12.40	24.072		
3,500.0	3,471.5	3,506.4	3,497.7	9.4	6.7	162.59	-140.6	28.3	304.2	291.4	12.86	23.656		
3,600.0	3,570.4	3,606.1	3,596.5	9.7	6.9	161.57	-153.0	32.5	310.0	296.7	13.33	23.262		
3,700.0	3,669.2	3,705.8	3,695.3	10.0	7.2	160.60	-165.4	36.7	315.9	302.1	13.80	22.889		
3,800.0	3,768.1	3,805.5	3,794.1	10.3	7.4	159.65	-177.8	40.9	321.8	307.6	14.28	22.535		
3,900.0	3,867.0	3,905.1	3,893.0	10.6	7.7	158.75	-190.3	45.2	327.9	313.1	14.77	22.200		
4,000.0	3,965.8	4,004.8	3,991.8	11.0	8.0	157.87	-202.7	49.4	334.0	318.7	15.26	21.883		
4,100.0	4,064.7	4,104.5	4,090.6	11.3	8.2	157.03	-215.1	53.6	340.2	324.4	15.76	21.582		
4,200.0	4,163.6	4,204.2	4,189.4	11.6	8.5	156.22	-227.5	57.8	346.4	330.2	16.27	21.296		
4,300.0	4,262.5	4,303.9	4,288.2	11.9	8.8	155.44	-239.9	62.1	352.8	336.0	16.78	21.026		
4,400.0	4,361.3	4,403.6	4,387.1	12.2	9.0	154.68	-252.3	66.3	359.2	341.9	17.29	20.769		
4,500.0	4,460.2	4,503.3	4,485.9	12.5	9.3	153.95	-264.7	70.5	365.6	347.8	17.81	20.525		
4,600.0	4,559.1	4,602.9	4,584.7	12.8	9.6	153.25	-277.2	74.8	372.1	353.8	18.34	20.293		
4,700.0	4,657.9	4,702.6	4,683.5	13.2	9.8	152.57	-289.6	79.0	378.7	359.8	18.87	20.073		
4,800.0	4,756.8	4,802.3	4,782.3	13.5	10.1	151.91	-302.0	83.2	385.3	365.9	19.40	19.864		
4,900.0	4,855.7	4,902.0	4,881.2	13.8	10.4	151.28	-314.4	87.4	392.0	372.1	19.93	19.665		
5,000.0	4,954.6	5,001.7	4,980.0	14.1	10.7	150.67	-326.8	91.7	398.7	378.2	20.47	19.476		
5,100.0	5,053.4	5,101.4	5,078.8	14.4	10.9	150.08	-339.2	95.9	405.5	384.4	21.01	19.296		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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	5,152.3	5,201.1	5,177.6	14.7	11.2	149.50	-351.6	100.1	412.3	390.7	21.56	19.125		
5,300.0	5,251.2	5,300.7	5,276.4	15.1	11.5	148.95	-364.1	104.3	419.1	397.0	22.10	18.962		
5,400.0	5,350.0	5,400.4	5,375.2	15.4	11.8	148.41	-376.5	108.6	426.0	403.3	22.65	18.806		
5,500.0	5,448.9	5,500.1	5,474.1	15.7	12.0	147.89	-388.9	112.8	432.9	409.7	23.20	18.658		
5,600.0	5,547.8	5,599.8	5,572.9	16.0	12.3	147.39	-401.3	117.0	439.8	416.1	23.75	18.516		
5,700.0	5,646.6	5,699.5	5,671.7	16.3	12.6	146.90	-413.7	121.2	446.8	422.5	24.31	18.381		
5,800.0	5,745.5	5,799.2	5,770.5	16.6	12.9	146.43	-426.1	125.5	453.8	428.9	24.86	18.252		
5,900.0	5,844.4	5,898.8	5,869.3	16.9	13.1	145.97	-438.6	129.7	460.8	435.4	25.42	18.128		
6,000.0	5,943.3	5,998.5	5,968.2	17.3	13.4	145.53	-451.0	133.9	467.9	441.9	25.98	18.010		
6,100.0	6,042.1	6,098.2	6,067.0	17.6	13.7	145.10	-463.4	138.1	475.0	448.5	26.54	17.897		
6,200.0	6,141.0	6,197.9	6,165.8	17.9	14.0	144.68	-475.8	142.4	482.1	455.0	27.10	17.789		
6,300.0	6,239.9	6,297.6	6,264.6	18.2	14.3	144.27	-488.2	146.6	489.3	461.6	27.67	17.685		
6,400.0	6,338.7	6,397.3	6,363.4	18.5	14.5	143.88	-500.6	150.8	496.4	468.2	28.23	17.585		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	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	27.669		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-8.4	8.4	7.7	0.65	12.873		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-8.4	8.4	7.4	1.00	8.387		
400.0	400.0	400.0	400.0	0.7	0.7	-89.94	0.0	-8.4	8.4	7.1	1.35	6.220 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	144.24	0.0	-8.4	9.1	7.4	1.70	5.350		
600.0	600.0	600.1	600.1	1.0	1.0	148.64	-0.7	-7.9	10.7	8.7	2.05	5.237 SF		
700.0	699.9	700.2	700.2	1.2	1.2	149.88	-2.9	-6.5	12.8	10.4	2.40	5.312		
800.0	799.7	800.3	800.2	1.4	1.4	149.13	-6.6	-4.2	15.1	12.4	2.76	5.483		
900.0	899.4	900.5	900.2	1.6	1.6	147.24	-11.8	-0.9	17.9	14.7	3.13	5.709		
1,000.0	998.9	1,000.6	1,000.0	1.8	1.8	144.75	-18.4	3.4	21.0	17.5	3.52	5.968		
1,100.0	1,098.3	1,100.8	1,099.7	2.1	2.0	142.00	-26.5	8.5	24.6	20.6	3.93	6.243		
1,200.0	1,197.4	1,201.0	1,199.2	2.3	2.2	139.22	-36.1	14.7	28.6	24.2	4.38	6.518		
1,300.0	1,296.3	1,300.9	1,298.4	2.6	2.5	137.39	-46.5	21.3	33.3	28.4	4.85	6.857		
1,400.0	1,395.2	1,400.7	1,397.5	2.9	2.7	136.36	-57.0	28.0	38.2	32.9	5.33	7.171		
1,500.0	1,494.1	1,500.6	1,496.6	3.2	3.0	135.56	-67.5	34.7	43.2	37.4	5.82	7.422		
1,600.0	1,592.9	1,600.5	1,595.7	3.5	3.3	134.93	-77.9	41.4	48.2	41.9	6.32	7.627		
1,700.0	1,691.8	1,700.4	1,694.8	3.8	3.5	134.41	-88.4	48.1	53.2	46.4	6.82	7.796		
1,800.0	1,790.7	1,800.2	1,793.9	4.1	3.8	133.99	-98.9	54.8	58.2	50.9	7.33	7.938		
1,900.0	1,889.5	1,900.1	1,893.0	4.4	4.1	133.63	-109.3	61.4	63.2	55.4	7.84	8.058		
2,000.0	1,988.4	2,000.0	1,992.1	4.7	4.3	133.33	-119.8	68.1	68.2	59.8	8.36	8.161		
2,100.0	2,087.3	2,099.9	2,091.2	5.0	4.6	133.06	-130.2	74.8	73.2	64.3	8.87	8.249		
2,200.0	2,186.2	2,199.7	2,190.3	5.3	4.9	132.83	-140.7	81.5	78.2	68.8	9.39	8.327		
2,300.0	2,285.0	2,299.6	2,289.3	5.6	5.1	132.63	-151.2	88.2	83.2	73.3	9.91	8.395		
2,400.0	2,383.9	2,399.5	2,388.4	6.0	5.4	132.45	-161.6	94.9	88.2	77.8	10.43	8.455		
2,500.0	2,482.8	2,499.4	2,487.5	6.3	5.7	132.29	-172.1	101.6	93.2	82.3	10.96	8.508		
2,600.0	2,581.6	2,599.2	2,586.6	6.6	6.0	132.15	-182.6	108.2	98.2	86.7	11.48	8.556		
2,700.0	2,680.5	2,699.1	2,685.7	6.9	6.2	132.02	-193.0	114.9	103.2	91.2	12.00	8.599		
2,800.0	2,779.4	2,799.0	2,784.8	7.2	6.5	131.90	-203.5	121.6	108.2	95.7	12.53	8.637		
2,900.0	2,878.3	2,898.9	2,883.9	7.5	6.8	131.79	-214.0	128.3	113.2	100.2	13.06	8.673		
3,000.0	2,977.1	2,998.7	2,983.0	7.8	7.1	131.69	-224.4	135.0	118.2	104.7	13.58	8.705		
3,100.0	3,076.0	3,098.6	3,082.1	8.1	7.3	131.60	-234.9	141.7	123.2	109.1	14.11	8.734		
3,200.0	3,174.9	3,198.5	3,181.2	8.5	7.6	131.52	-245.3	148.4	128.3	113.6	14.64	8.761		
3,300.0	3,273.7	3,298.4	3,280.3	8.8	7.9	131.44	-255.8	155.0	133.3	118.1	15.17	8.786		
3,400.0	3,372.6	3,398.2	3,379.4	9.1	8.2	131.37	-266.3	161.7	138.3	122.6	15.70	8.809		
3,500.0	3,471.5	3,498.1	3,478.5	9.4	8.4	131.30	-276.7	168.4	143.3	127.1	16.23	8.830		
3,600.0	3,570.4	3,598.0	3,577.6	9.7	8.7	131.24	-287.2	175.1	148.3	131.5	16.76	8.850		
3,700.0	3,669.2	3,697.9	3,676.7	10.0	9.0	131.18	-297.7	181.8	153.3	136.0	17.29	8.869		
3,800.0	3,768.1	3,797.7	3,775.8	10.3	9.3	131.13	-308.1	188.5	158.3	140.5	17.82	8.886		
3,900.0	3,867.0	3,897.6	3,874.9	10.6	9.5	131.08	-318.6	195.1	163.3	145.0	18.35	8.902		
4,000.0	3,965.8	3,997.5	3,974.0	11.0	9.8	131.03	-329.1	201.8	168.3	149.5	18.88	8.917		
4,100.0	4,064.7	4,097.4	4,073.1	11.3	10.1	130.99	-339.5	208.5	173.3	153.9	19.41	8.931		
4,200.0	4,163.6	4,197.2	4,172.2	11.6	10.4	130.94	-350.0	215.2	178.3	158.4	19.94	8.944		
4,300.0	4,262.5	4,297.1	4,271.3	11.9	10.7	130.90	-360.5	221.9	183.4	162.9	20.47	8.957		
4,400.0	4,361.3	4,397.0	4,370.4	12.2	10.9	130.87	-370.9	228.6	188.4	167.4	21.00	8.969		
4,500.0	4,460.2	4,496.9	4,469.5	12.5	11.2	130.83	-381.4	235.3	193.4	171.8	21.53	8.980		
4,600.0	4,559.1	4,596.7	4,568.6	12.8	11.5	130.80	-391.8	241.9	198.4	176.3	22.07	8.991		
4,700.0	4,657.9	4,696.6	4,667.7	13.2	11.8	130.76	-402.3	248.6	203.4	180.8	22.60	9.001		
4,800.0	4,756.8	4,796.5	4,766.8	13.5	12.0	130.73	-412.8	255.3	208.4	185.3	23.13	9.010		
4,900.0	4,855.7	4,896.4	4,865.9	13.8	12.3	130.70	-423.2	262.0	213.4	189.8	23.66	9.019		
5,000.0	4,954.6	4,996.2	4,965.0	14.1	12.6	130.67	-433.7	268.7	218.4	194.2	24.19	9.028		
5,100.0	5,053.4	5,096.1	5,064.1	14.4	12.9	130.65	-444.2	275.4	223.4	198.7	24.73	9.036		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,200.0	5,152.3	5,196.0	5,163.2	14.7	13.1	130.62	-454.6	282.1	228.4	203.2	25.26	9.044		
5,300.0	5,251.2	5,295.8	5,262.3	15.1	13.4	130.60	-465.1	288.7	233.5	207.7	25.79	9.052		
5,400.0	5,350.0	5,395.7	5,361.4	15.4	13.7	130.57	-475.6	295.4	238.5	212.1	26.32	9.059		
5,500.0	5,448.9	5,495.6	5,460.5	15.7	14.0	130.55	-486.0	302.1	243.5	216.6	26.86	9.066		
5,600.0	5,547.8	5,595.5	5,559.6	16.0	14.3	130.53	-496.5	308.8	248.5	221.1	27.39	9.072		
5,700.0	5,646.6	5,695.3	5,658.7	16.3	14.5	130.51	-506.9	315.5	253.5	225.6	27.92	9.079		
5,800.0	5,745.5	5,795.2	5,757.8	16.6	14.8	130.49	-517.4	322.2	258.5	230.1	28.46	9.085		
5,900.0	5,844.4	5,895.1	5,856.9	16.9	15.1	130.47	-527.9	328.8	263.5	234.5	28.99	9.090		
6,000.0	5,943.3	5,995.0	5,956.0	17.3	15.4	130.45	-538.3	335.5	268.5	239.0	29.52	9.096		
6,100.0	6,042.1	6,094.8	6,055.1	17.6	15.6	130.43	-548.8	342.2	273.5	243.5	30.06	9.101		
6,200.0	6,141.0	6,194.7	6,154.2	17.9	15.9	130.41	-559.3	348.9	278.6	248.0	30.59	9.107		
6,300.0	6,239.9	6,294.6	6,253.3	18.2	16.2	130.40	-569.7	355.6	283.6	252.4	31.12	9.112		
6,400.0	6,338.7	6,394.5	6,352.4	18.5	16.5	130.38	-580.2	362.3	288.6	256.9	31.65	9.116		
6,500.0	6,437.6	6,494.3	6,451.5	18.8	16.8	130.37	-590.7	369.0	293.6	261.4	32.19	9.121		
6,600.0	6,536.5	6,594.2	6,550.6	19.1	17.0	130.35	-601.1	375.6	298.6	265.9	32.72	9.125		
6,700.0	6,635.4	6,694.1	6,649.7	19.5	17.3	130.34	-611.6	382.3	303.6	270.4	33.25	9.130		
6,800.0	6,734.2	6,794.0	6,748.8	19.8	17.6	130.32	-622.0	389.0	308.6	274.8	33.79	9.134		
6,900.0	6,833.1	6,893.8	6,847.9	20.1	17.9	130.31	-632.5	395.7	313.6	279.3	34.32	9.138		
7,000.0	6,932.0	6,993.7	6,947.0	20.4	18.1	130.30	-643.0	402.4	318.6	283.8	34.86	9.142		
7,100.0	7,030.8	7,100.0	7,052.9	20.7	18.3	131.57	-646.8	409.2	322.8	287.8	35.01	9.219		
7,200.0	7,129.7	7,201.7	7,153.3	21.0	18.3	135.91	-632.3	414.9	325.8	291.5	34.26	9.511		
7,300.0	7,228.6	7,292.5	7,239.5	21.4	18.1	142.20	-604.5	419.1	331.5	298.6	32.82	10.100		
7,400.0	7,327.5	7,370.3	7,309.2	21.7	17.8	149.10	-570.1	422.0	344.5	313.4	31.14	11.064		
7,500.0	7,426.3	7,435.6	7,363.6	22.0	17.6	164.26	-534.3	423.8	368.6	339.1	29.55	12.473		
7,600.0	7,525.5	7,500.0	7,413.0	22.2	17.3	-113.57	-493.0	425.1	401.5	373.6	27.85	14.416		
7,700.0	7,623.0	7,550.0	7,448.0	22.2	17.1	-81.25	-457.3	425.8	437.7	410.7	26.94	16.247		
7,800.0	7,715.6	7,611.0	7,486.2	22.1	16.8	-66.81	-409.8	426.1	474.1	447.8	26.28	18.037		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SUR														Offset Site Error:	0.0 ft
Survey Program: 218-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	4.2	4.2	0.0	0.0	-5.04	328.3	-29.0	329.6						
100.0	100.0	108.3	108.3	0.2	0.2	-4.96	327.7	-28.4	328.9	328.6	0.34	973.119			
200.0	200.0	212.3	212.3	0.3	0.4	-4.72	325.8	-26.9	327.0	326.3	0.69	472.913			
300.0	300.0	316.1	316.0	0.5	0.6	-4.81	322.5	-27.1	323.9	322.8	1.05	309.920			
400.0	400.0	417.3	416.9	0.7	0.8	-5.92	318.0	-33.0	320.0	318.6	1.39	230.613			
500.0	500.0	516.1	515.0	0.9	1.0	-137.37	312.8	-43.7	316.7	314.9	1.82	174.283			
565.7	565.7	578.5	576.6	1.0	1.2	-139.27	309.6	-52.8	316.0	313.9	2.12	148.987	CC, ES		
600.0	600.0	610.5	608.2	1.0	1.3	-140.39	308.0	-58.2	316.2	313.9	2.29	137.992			
700.0	699.9	702.5	698.3	1.2	1.6	-144.06	304.1	-75.8	319.8	317.0	2.82	113.494			
800.0	799.7	790.8	784.4	1.4	2.0	-148.02	301.4	-95.5	328.5	325.1	3.37	97.548			
900.0	899.4	872.0	863.1	1.6	2.3	-151.72	301.1	-115.4	343.9	340.1	3.89	88.447			
1,000.0	998.9	965.4	953.4	1.8	2.8	-155.72	302.7	-139.2	365.0	360.6	4.43	82.451			
1,100.0	1,098.3	1,057.4	1,042.4	2.1	3.2	-159.25	304.8	-162.3	389.8	384.8	4.93	79.035			
1,200.0	1,197.4	1,143.7	1,125.7	2.3	3.6	-162.30	307.5	-184.7	418.5	413.1	5.40	77.489			
1,300.0	1,296.3	1,228.1	1,206.9	2.6	4.0	-165.07	311.0	-207.7	451.6	445.7	5.84	77.339	SF		
1,400.0	1,395.2	1,305.7	1,281.1	2.9	4.4	-167.34	315.7	-229.6	487.9	481.7	6.23	78.301			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SUR													Offset Site Error:	0.0 ft
Survey Program: 1020-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	3.0	3.0	0.0	0.0	12.74	280.1	63.3	287.2					
100.0	100.0	103.1	103.1	0.2	0.2	12.76	280.1	63.4	287.2	286.9	0.33	867.243		
200.0	200.0	203.1	203.1	0.3	0.4	12.82	280.0	63.7	287.2	286.5	0.68	422.433		
300.0	300.0	303.2	303.2	0.5	0.5	12.91	279.8	64.1	287.1	286.1	1.03	279.180		
400.0	400.0	403.3	403.3	0.7	0.7	13.04	279.6	64.8	287.0	285.6	1.38	208.447		
411.9	411.9	415.2	415.1	0.7	0.7	-116.24	279.6	64.9	287.0	285.6	1.42	201.489		
500.0	500.0	503.3	503.3	0.9	0.9	-116.24	279.3	65.6	287.3	285.6	1.73	165.759		
600.0	600.0	603.4	603.4	1.0	1.1	-116.49	279.0	66.6	288.3	286.3	2.09	138.229		
700.0	699.9	703.4	703.4	1.2	1.2	-117.01	278.6	67.7	290.2	287.7	2.44	118.749		
800.0	799.7	803.3	803.3	1.4	1.4	-117.77	278.1	69.0	292.8	290.0	2.81	104.263		
900.0	899.4	903.2	903.2	1.6	1.6	-118.78	277.5	70.6	296.2	293.1	3.18	93.110		
1,000.0	998.9	1,003.0	1,003.0	1.8	1.8	-120.00	276.9	72.2	300.7	297.1	3.57	84.311		
1,100.0	1,098.3	1,110.4	1,110.4	2.1	1.9	-121.67	275.1	73.5	305.0	301.1	3.97	76.774		
1,200.0	1,197.4	1,223.3	1,223.1	2.3	2.2	-124.14	269.6	71.9	307.1	302.7	4.39	69.959		
1,300.0	1,296.3	1,340.1	1,339.2	2.6	2.4	-127.15	257.4	69.0	304.9	300.1	4.82	63.310		
1,400.0	1,395.2	1,448.7	1,446.5	2.9	2.7	-130.10	241.6	65.8	299.6	294.4	5.22	57.343		
1,500.0	1,494.1	1,558.0	1,554.0	3.2	3.0	-133.58	222.0	60.9	291.7	286.1	5.62	51.867		
1,600.0	1,592.9	1,662.6	1,656.1	3.5	3.3	-137.22	200.0	55.9	281.6	275.6	6.01	46.814		
1,700.0	1,691.8	1,762.8	1,753.5	3.8	3.7	-141.29	177.2	49.9	271.1	264.7	6.41	42.301		
1,800.0	1,790.7	1,866.2	1,853.4	4.1	4.1	-146.06	152.0	42.8	260.7	253.9	6.83	38.192		
1,900.0	1,889.5	1,961.8	1,946.0	4.4	4.5	-150.52	128.3	37.8	251.2	244.0	7.25	34.645		
2,000.0	1,988.4	2,062.1	2,043.0	4.7	4.9	-155.42	103.3	33.0	243.2	235.4	7.73	31.464		
2,100.0	2,087.3	2,161.1	2,138.5	5.0	5.4	-160.58	77.7	28.7	236.0	227.7	8.25	28.610		
2,200.0	2,186.2	2,256.8	2,231.0	5.3	5.8	-165.70	53.3	24.8	230.9	222.1	8.81	26.220		
2,300.0	2,285.0	2,352.1	2,323.3	5.6	6.2	-170.93	29.8	20.5	228.9	219.5	9.42	24.302		
2,328.6	2,313.4	2,380.0	2,350.3	5.7	6.3	-172.46	23.1	19.2	228.8	219.2	9.60	23.822 CC, ES		
2,400.0	2,383.9	2,449.9	2,418.1	6.0	6.6	-176.21	6.3	16.3	229.3	219.2	10.09	22.726		
2,500.0	2,482.8	2,548.2	2,513.2	6.3	7.1	-178.40	-17.9	11.7	231.6	220.7	10.83	21.375		
2,600.0	2,581.6	2,645.1	2,607.0	6.6	7.5	-173.12	-42.3	7.1	235.7	224.0	11.62	20.277		
2,700.0	2,680.5	2,740.0	2,698.8	6.9	7.9	-168.23	-65.4	2.0	242.7	230.3	12.42	19.545		
2,800.0	2,779.4	2,838.7	2,794.6	7.2	8.4	-163.64	-88.6	-3.2	252.0	238.7	13.24	19.023		
2,900.0	2,878.3	2,936.3	2,889.3	7.5	8.8	-159.36	-112.2	-7.8	261.9	247.8	14.09	18.588		
3,000.0	2,977.1	3,031.7	2,981.3	7.8	9.3	-155.21	-136.1	-13.6	274.3	259.3	14.94	18.351		
3,100.0	3,076.0	3,130.4	3,076.5	8.1	9.8	-151.16	-161.6	-19.6	287.9	272.1	15.82	18.203		
3,200.0	3,174.9	3,225.5	3,168.4	8.5	10.2	-147.75	-185.5	-25.0	302.5	285.9	16.63	18.195 SF		
3,300.0	3,273.7	3,320.6	3,260.4	8.8	10.6	-144.75	-208.8	-31.5	319.4	302.0	17.41	18.346		
3,400.0	3,372.6	3,420.2	3,356.7	9.1	11.1	-141.87	-233.4	-38.2	336.8	318.6	18.22	18.489		
3,500.0	3,471.5	3,517.2	3,450.0	9.4	11.6	-139.04	-259.2	-44.0	354.5	335.5	19.01	18.646		
3,600.0	3,570.4	3,618.3	3,547.4	9.7	12.1	-136.47	-285.5	-50.1	372.8	353.1	19.79	18.843		
3,700.0	3,669.2	3,716.6	3,642.6	10.0	12.5	-134.40	-309.7	-54.9	390.6	370.1	20.51	19.047		
3,800.0	3,768.1	3,810.9	3,734.0	10.3	13.0	-132.67	-332.5	-60.0	409.3	388.1	21.20	19.304		
3,900.0	3,867.0	3,904.2	3,824.1	10.6	13.4	-131.03	-355.5	-65.9	429.2	407.3	21.88	19.612		
4,000.0	3,965.8	4,000.8	3,917.5	11.0	13.9	-129.44	-379.8	-72.4	450.0	427.4	22.58	19.933		
4,100.0	4,064.7	4,101.3	4,014.4	11.3	14.4	-127.90	-405.3	-78.9	470.8	447.5	23.27	20.231		
4,200.0	4,163.6	4,202.3	4,112.1	11.6	14.8	-126.51	-430.4	-84.6	491.1	467.1	23.96	20.497		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLAN													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	14.04	276.5	69.2	285.2					
100.0	100.0	90.0	90.0	0.2	0.2	14.04	276.5	69.2	285.0	284.7	0.31	922.533		
200.0	200.0	190.0	190.0	0.3	0.3	14.04	276.5	69.2	285.0	284.4	0.66	433.154		
300.0	300.0	285.2	285.2	0.5	0.5	14.25	276.9	70.4	285.8	284.8	1.00	286.110		
400.0	400.0	379.7	379.6	0.7	0.7	14.97	278.4	74.5	288.4	287.1	1.34	215.470		
500.0	500.0	473.8	473.4	0.9	0.9	-113.24	281.0	81.4	293.4	291.7	1.72	170.816		
600.0	600.0	567.5	566.5	1.0	1.1	-111.98	284.6	91.3	301.1	299.0	2.11	142.989		
700.0	699.9	660.5	658.5	1.2	1.4	-110.61	289.2	103.8	311.6	309.1	2.52	123.591		
800.0	799.7	752.8	749.3	1.4	1.7	-109.16	294.8	119.1	324.9	321.9	2.97	109.491		
900.0	899.4	844.2	838.7	1.6	2.1	-107.68	301.4	136.9	341.0	337.6	3.44	99.098		
1,000.0	998.9	940.3	932.3	1.8	2.5	-106.23	309.0	157.6	359.3	355.4	3.96	90.857		
1,100.0	1,098.3	1,038.3	1,027.7	2.1	2.9	-105.11	316.8	178.8	378.3	373.9	4.49	84.200		
1,200.0	1,197.4	1,136.3	1,123.0	2.3	3.3	-104.33	324.6	200.0	397.9	392.8	5.05	78.708		
1,300.0	1,296.3	1,234.3	1,218.4	2.6	3.8	-103.89	332.4	221.3	417.8	412.2	5.64	74.092		
1,400.0	1,395.2	1,332.2	1,313.7	2.9	4.2	-103.65	340.2	242.5	437.8	431.6	6.23	70.220		
1,500.0	1,494.1	1,430.2	1,409.0	3.2	4.6	-103.43	348.0	263.7	457.8	451.0	6.84	66.972		
1,600.0	1,592.9	1,528.2	1,504.3	3.5	5.0	-103.22	355.8	284.9	477.9	470.4	7.44	64.215		
1,700.0	1,691.8	1,626.1	1,599.6	3.8	5.5	-103.04	363.6	306.1	497.9	489.9	8.05	61.851		
8,800.0	8,036.0	8,148.3	8,026.0	21.9	24.2	90.00	655.3	1,099.7	446.4	414.5	31.83	14.021		
8,900.0	8,036.0	8,148.3	8,026.0	22.5	24.2	90.00	655.3	1,099.7	372.4	339.8	32.65	11.405		
9,000.0	8,036.0	8,148.3	8,026.0	23.2	24.2	90.00	655.3	1,099.7	313.3	279.7	33.60	9.323		
9,100.0	8,036.0	8,148.3	8,026.0	24.1	24.2	90.00	655.3	1,099.7	278.6	243.9	34.67	8.035		
9,152.7	8,036.0	8,148.3	8,026.0	24.6	24.2	90.00	655.3	1,099.7	273.5	238.2	35.28	7.753 CC, ES		
9,200.0	8,036.0	8,148.3	8,026.0	25.0	24.2	90.00	655.3	1,099.7	277.6	241.7	35.83	7.747 SF		
9,300.0	8,036.0	8,148.3	8,026.0	26.0	24.2	90.00	655.3	1,099.7	310.6	273.6	37.07	8.379		
9,400.0	8,036.0	8,148.3	8,026.0	27.1	24.2	90.00	655.3	1,099.7	368.7	330.3	38.38	9.606		
9,500.0	8,036.0	8,148.3	8,026.0	28.3	24.2	90.00	655.3	1,099.7	442.1	402.3	39.75	11.121		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL - S												Offset Site Error:	0.0 ft
Survey Program: 127-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	3.0	3.0	0.0	0.0	-6.53	339.9	-38.9	342.1				
100.0	100.0	102.5	102.5	0.2	0.2	-6.54	340.0	-38.9	342.2	341.9	0.31	1,095.143 ES	
200.0	200.0	199.3	199.3	0.3	0.3	-6.56	340.5	-39.1	342.7	342.1	0.65	525.612	
300.0	300.0	298.8	298.8	0.5	0.5	-6.68	341.6	-40.0	344.0	343.0	1.00	343.271	
400.0	400.0	400.0	400.0	0.7	0.7	-6.88	342.5	-41.3	345.0	343.7	1.35	254.684	
500.0	500.0	497.3	497.3	0.9	0.9	-136.53	343.5	-43.1	346.9	345.2	1.70	204.131	
600.0	600.0	596.4	596.2	1.0	1.0	-137.36	344.8	-46.7	350.6	348.6	2.06	170.485	
700.0	699.9	696.3	696.0	1.2	1.2	-138.60	345.9	-51.9	355.7	353.3	2.42	146.839	
800.0	799.7	792.6	792.2	1.4	1.4	-140.02	347.2	-57.5	362.7	359.9	2.79	130.169	
900.0	899.4	887.9	887.3	1.6	1.6	-141.37	349.6	-62.4	372.3	369.1	3.15	118.299	
1,000.0	998.9	982.2	981.4	1.8	1.8	-142.65	353.1	-66.7	384.5	381.0	3.51	109.657	
1,100.0	1,098.3	1,075.5	1,074.5	2.1	2.0	-143.93	357.8	-70.9	399.5	395.7	3.87	103.341	
1,200.0	1,197.4	1,165.4	1,164.1	2.3	2.2	-145.11	363.7	-74.9	417.7	413.5	4.22	98.903	
1,300.0	1,296.3	1,249.0	1,247.2	2.6	2.4	-146.40	371.0	-80.3	440.0	435.5	4.58	96.122	
1,400.0	1,395.2	1,335.0	1,332.4	2.9	2.6	-147.85	380.6	-87.8	465.8	460.9	4.94	94.371	
1,500.0	1,494.1	1,415.5	1,411.7	3.2	2.9	-149.14	391.3	-96.1	494.4	489.1	5.28	93.580 SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - SU														Offset Site Error:	0.0 ft
Survey Program: 217-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-0.95	319.9	-5.3	320.1						
100.0	100.0	91.1	91.1	0.2	0.2	-0.86	319.7	-4.8	319.8	319.4	0.32	1,013.971			
200.0	200.0	192.4	192.4	0.3	0.3	-0.55	319.2	-3.0	319.2	318.5	0.67	475.559			
300.0	300.0	294.7	294.6	0.5	0.5	-0.22	318.1	-1.2	318.2	317.1	1.03	310.128			
400.0	400.0	392.7	392.7	0.7	0.7	-0.36	316.9	-2.0	316.9	315.5	1.37	231.733			
482.5	482.5	475.5	475.4	0.8	0.8	-130.13	316.2	-4.2	316.6	314.9	1.65	191.858 CC			
500.0	500.0	493.1	493.0	0.9	0.9	-130.27	316.0	-4.7	316.6	314.9	1.71	185.034 ES			
600.0	600.0	594.8	594.6	1.0	1.0	-131.34	314.6	-8.6	317.1	315.0	2.07	153.406			
700.0	699.9	692.4	692.2	1.2	1.2	-132.57	313.4	-12.3	318.9	316.5	2.42	131.744			
800.0	799.7	792.2	791.9	1.4	1.4	-133.77	312.5	-14.6	322.4	319.6	2.78	115.905			
900.0	899.4	890.3	890.0	1.6	1.6	-135.03	312.0	-16.4	327.5	324.3	3.14	104.131			
1,000.0	998.9	990.0	989.7	1.8	1.7	-136.47	311.6	-18.3	334.2	330.7	3.52	95.009			
1,100.0	1,098.3	1,089.4	1,089.1	2.1	1.9	-138.10	311.0	-20.5	342.2	338.3	3.90	87.851			
1,200.0	1,197.4	1,188.2	1,187.8	2.3	2.1	-139.82	310.4	-22.8	352.0	347.7	4.28	82.287			
1,300.0	1,296.3	1,286.8	1,286.4	2.6	2.3	-141.64	309.8	-25.1	363.3	358.6	4.66	77.917			
1,400.0	1,395.2	1,387.1	1,386.6	2.9	2.5	-143.44	309.2	-27.4	375.2	370.1	5.05	74.332			
1,500.0	1,494.1	1,489.5	1,489.0	3.2	2.6	-145.17	307.7	-29.6	386.5	381.1	5.44	71.073			
1,600.0	1,592.9	1,588.2	1,587.6	3.5	2.8	-147.27	304.6	-35.0	397.7	391.8	5.83	68.241			
1,700.0	1,691.8	1,686.2	1,685.0	3.8	3.1	-149.72	300.6	-43.7	409.5	403.3	6.22	65.806			
1,800.0	1,790.7	1,782.2	1,780.2	4.1	3.3	-152.46	295.4	-55.4	422.3	415.6	6.63	63.734			
1,900.0	1,889.5	1,879.1	1,875.9	4.4	3.6	-155.37	289.4	-69.6	436.3	429.2	7.04	61.956			
2,000.0	1,988.4	1,979.6	1,974.8	4.7	3.8	-158.47	281.8	-85.8	451.0	443.5	7.48	60.275			
2,100.0	2,087.3	2,073.6	2,066.9	5.0	4.2	-161.41	273.4	-102.4	466.5	458.5	7.92	58.866			
2,200.0	2,186.2	2,162.8	2,153.9	5.3	4.5	-164.27	264.9	-120.2	484.1	475.7	8.38	57.774 SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - SU		Offset Site Error:		0.0 ft
Survey Program: 248-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							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					
12,300.0	8,036.0	8,196.8	8,062.4	71.4	23.5	-87.91	4,043.3	405.5	449.5	357.0	92.54	4.857					
12,400.0	8,036.0	8,198.7	8,064.4	73.1	23.5	-88.21	4,043.3	405.4	402.6	308.3	94.28	4.270					
12,500.0	8,036.0	8,200.7	8,066.3	74.7	23.5	-88.52	4,043.3	405.4	376.9	280.8	96.01	3.925					
12,550.1	8,036.0	8,201.7	8,067.3	75.6	23.5	-88.67	4,043.4	405.4	373.5	276.6	96.88	3.855 CC, ES					
12,600.0	8,036.0	8,202.7	8,068.3	76.4	23.5	-88.82	4,043.4	405.3	376.8	279.1	97.75	3.855 SF					
12,700.0	8,036.0	8,204.7	8,070.3	78.1	23.5	-89.12	4,043.4	405.3	402.4	303.0	99.48	4.045					
12,800.0	8,036.0	8,206.6	8,072.3	79.8	23.5	-89.43	4,043.4	405.2	449.3	348.1	101.22	4.439					

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 42-29D (EXISTING) - SYNERGY WELL - SU		Offset Site Error:		0.0 ft	
Survey Program: 125-MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
10,600.0	8,036.0	8,155.2	8,084.9	43.7	19.2	-93.25	2,524.2	624.9	462.6	404.9	57.67	8.020						
10,700.0	8,036.0	8,153.3	8,083.1	45.3	19.2	-92.64	2,524.2	624.9	372.0	312.6	59.33	6.270						
10,800.0	8,036.0	8,151.4	8,081.2	46.8	19.2	-92.01	2,524.2	624.9	287.6	226.7	60.99	4.716						
10,900.0	8,036.0	8,149.5	8,079.2	48.4	19.2	-91.38	2,524.3	624.9	217.1	154.4	62.65	3.465						
11,000.0	8,036.0	8,147.5	8,077.2	50.0	19.2	-90.73	2,524.3	624.8	177.4	113.1	64.31	2.759						
11,028.2	8,036.0	8,146.9	8,076.7	50.5	19.2	-90.54	2,524.3	624.8	175.2	110.4	64.78	2.704	CC, ES, SF					
11,100.0	8,036.0	8,145.5	8,075.2	51.6	19.2	-90.07	2,524.4	624.8	189.3	123.3	65.98	2.869						
11,200.0	8,036.0	8,143.4	8,073.2	53.2	19.2	-89.40	2,524.4	624.8	245.3	177.7	67.64	3.627						
11,300.0	8,036.0	8,141.3	8,071.1	54.8	19.2	-88.72	2,524.4	624.8	323.3	254.0	69.29	4.666						
11,400.0	8,036.0	8,139.2	8,068.9	56.5	19.2	-88.02	2,524.5	624.8	410.9	340.0	70.95	5.792						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 211-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	4.0	4.0	0.0	0.0	2.17	310.4	11.7	310.6					
100.0	100.0	103.9	103.9	0.2	0.2	2.23	310.4	12.1	310.6	310.3	0.32	963.056		
200.0	200.0	203.9	203.9	0.3	0.3	2.39	310.4	13.0	310.7	310.0	0.66	469.848		
300.0	300.0	299.7	299.7	0.5	0.5	2.66	311.0	14.5	311.3	310.3	1.00	310.685		
400.0	400.0	390.9	390.8	0.7	0.7	3.08	313.4	16.9	314.1	312.8	1.34	235.235		
500.0	500.0	483.3	483.1	0.9	0.9	-125.73	318.2	20.2	320.0	318.3	1.69	189.298		
600.0	600.0	572.8	572.1	1.0	1.1	-125.35	325.1	24.3	329.6	327.5	2.03	161.971		
700.0	699.9	659.2	657.9	1.2	1.3	-125.01	334.7	29.3	343.6	341.2	2.38	144.194		
800.0	799.7	746.2	743.7	1.4	1.6	-124.69	347.4	35.7	362.1	359.3	2.74	131.969		
900.0	899.4	832.5	828.3	1.6	1.9	-124.35	362.4	43.3	384.5	381.4	3.12	123.179		
1,000.0	998.9	921.0	914.6	1.8	2.3	-123.97	380.0	52.9	410.5	407.0	3.52	116.559		
1,100.0	1,098.3	1,016.0	1,006.7	2.1	2.7	-123.64	399.9	64.1	438.6	434.7	3.96	110.813		
1,200.0	1,197.4	1,103.2	1,091.2	2.3	3.1	-123.37	418.4	75.2	468.0	463.6	4.40	106.405		
9,500.0	8,036.0	8,197.7	8,045.5	28.3	25.3	-91.17	1,371.1	548.2	461.8	414.3	47.53	9.716		
9,600.0	8,036.0	8,197.9	8,045.8	29.5	25.3	-91.23	1,371.1	548.2	384.8	335.8	48.94	7.861		
9,700.0	8,036.0	8,198.2	8,046.0	30.8	25.3	-91.29	1,371.1	548.2	320.6	270.2	50.40	6.362		
9,800.0	8,036.0	8,198.5	8,046.3	32.1	25.3	-91.34	1,371.1	548.3	278.5	226.6	51.88	5.368		
9,876.2	8,036.0	8,198.7	8,046.5	33.1	25.3	-91.39	1,371.1	548.3	267.9	214.9	53.04	5.051 CC, ES		
9,900.0	8,036.0	8,198.7	8,046.5	33.4	25.3	-91.40	1,371.1	548.3	269.0	215.6	53.40	5.037 SF		
10,000.0	8,036.0	8,199.0	8,046.8	34.8	25.3	-91.45	1,371.1	548.3	295.1	240.2	54.94	5.372		
10,100.0	8,036.0	8,199.2	8,047.1	36.2	25.3	-91.51	1,371.1	548.3	349.1	292.6	56.50	6.179		
10,200.0	8,036.0	8,199.5	8,047.3	37.7	25.3	-91.57	1,371.1	548.3	420.3	362.2	58.08	7.237		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - PL														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	22.03	256.2	103.6	276.4						
100.0	100.0	92.0	92.0	0.2	0.2	22.03	256.2	103.6	276.3	276.0	0.31	884.425			
200.0	200.0	192.0	192.0	0.3	0.3	22.03	256.2	103.6	276.3	275.7	0.66	417.732			
300.0	300.0	292.0	292.0	0.5	0.5	22.03	256.2	103.6	276.3	275.3	1.01	273.437			
400.0	400.0	392.0	392.0	0.7	0.7	22.03	256.2	103.6	276.3	275.0	1.36	203.235 CC			
500.0	500.0	492.0	492.0	0.9	0.9	-107.44	256.2	103.6	276.6	274.9	1.71	161.824 ES			
600.0	600.0	592.0	592.0	1.0	1.0	-107.95	256.2	103.6	277.4	275.3	2.06	134.565			
700.0	699.9	691.9	691.9	1.2	1.2	-108.79	256.2	103.6	278.8	276.3	2.42	115.244			
800.0	799.7	791.7	791.7	1.4	1.4	-109.95	256.2	103.6	280.8	278.0	2.78	100.839			
900.0	899.4	891.4	891.4	1.6	1.6	-111.41	256.2	103.6	283.6	280.4	3.16	89.720			
1,000.0	998.9	990.9	990.9	1.8	1.7	-113.15	256.2	103.6	287.2	283.7	3.55	80.939			
1,100.0	1,098.3	1,093.7	1,093.7	2.1	1.9	-114.93	255.3	104.9	291.3	287.4	3.96	73.637			
1,200.0	1,197.4	1,197.3	1,197.2	2.3	2.1	-116.33	252.2	109.2	295.1	290.7	4.39	67.283			
1,300.0	1,296.3	1,301.3	1,300.8	2.6	2.3	-117.34	247.0	116.5	298.4	293.5	4.84	61.610			
1,400.0	1,395.2	1,405.7	1,404.3	2.9	2.5	-117.74	239.6	127.0	300.4	295.1	5.33	56.345			
1,500.0	1,494.1	1,510.1	1,507.4	3.2	2.8	-117.48	229.9	140.6	300.9	295.1	5.86	51.347			
1,600.0	1,592.9	1,612.0	1,607.4	3.5	3.1	-116.68	218.8	156.3	300.3	293.9	6.43	46.730			
1,700.0	1,691.8	1,711.9	1,705.4	3.8	3.4	-115.82	207.6	172.1	299.6	292.5	7.01	42.735			
1,800.0	1,790.7	1,811.8	1,803.4	4.1	3.7	-114.96	196.4	187.8	298.9	291.3	7.61	39.262			
1,900.0	1,889.5	1,911.6	1,901.5	4.4	4.1	-114.09	185.3	203.6	298.3	290.1	8.23	36.236			
2,000.0	1,988.4	2,011.5	1,999.5	4.7	4.4	-113.22	174.1	219.3	297.8	288.9	8.86	33.589			
2,100.0	2,087.3	2,111.4	2,097.5	5.0	4.8	-112.35	162.9	235.0	297.3	287.8	9.51	31.263			
2,200.0	2,186.2	2,211.3	2,195.5	5.3	5.1	-111.48	151.8	250.8	296.9	286.7	10.16	29.211			
2,300.0	2,285.0	2,311.2	2,293.5	5.6	5.5	-110.60	140.6	266.5	296.6	285.8	10.83	27.390			
2,400.0	2,383.9	2,411.1	2,391.5	6.0	5.8	-109.72	129.4	282.3	296.3	284.8	11.50	25.769			
2,500.0	2,482.8	2,511.0	2,489.5	6.3	6.2	-108.84	118.3	298.0	296.1	284.0	12.18	24.319			
2,600.0	2,581.6	2,610.9	2,587.6	6.6	6.6	-107.96	107.1	313.8	296.0	283.2	12.86	23.017			
2,700.0	2,680.5	2,710.8	2,685.6	6.9	6.9	-107.08	95.9	329.5	296.0	282.4	13.55	21.844			
2,711.0	2,691.4	2,721.8	2,696.4	6.9	7.0	-106.98	94.7	331.3	296.0	282.4	13.63	21.721			
2,800.0	2,779.4	2,810.7	2,783.6	7.2	7.3	-106.20	84.8	345.3	296.0	281.8	14.24	20.782			
2,900.0	2,878.3	2,910.6	2,881.6	7.5	7.7	-105.32	73.6	361.0	296.1	281.2	14.94	19.819			
3,000.0	2,977.1	3,010.5	2,979.6	7.8	8.0	-104.44	62.4	376.8	296.3	280.6	15.64	18.942			
3,100.0	3,076.0	3,110.4	3,077.6	8.1	8.4	-103.56	51.3	392.5	296.5	280.2	16.34	18.142			
3,200.0	3,174.9	3,210.3	3,175.6	8.5	8.8	-102.68	40.1	408.2	296.8	279.8	17.05	17.409			
3,300.0	3,273.7	3,310.2	3,273.6	8.8	9.2	-101.81	28.9	424.0	297.2	279.4	17.76	16.738			
3,400.0	3,372.6	3,410.1	3,371.7	9.1	9.5	-100.93	17.8	439.7	297.7	279.2	18.46	16.120			
3,500.0	3,471.5	3,510.0	3,469.7	9.4	9.9	-100.06	6.6	455.5	298.2	279.0	19.17	15.552			
3,600.0	3,570.4	3,609.9	3,567.7	9.7	10.3	-99.20	-4.6	471.2	298.8	278.9	19.88	15.027			
3,700.0	3,669.2	3,709.8	3,665.7	10.0	10.7	-98.33	-15.7	487.0	299.4	278.8	20.59	14.542			
3,800.0	3,768.1	3,809.7	3,763.7	10.3	11.0	-97.47	-26.9	502.7	300.1	278.8	21.30	14.092			
3,900.0	3,867.0	3,909.6	3,861.7	10.6	11.4	-96.62	-38.1	518.5	300.9	278.9	22.00	13.676			
4,000.0	3,965.8	4,009.5	3,959.7	11.0	11.8	-95.77	-49.3	534.2	301.8	279.1	22.71	13.289			
4,100.0	4,064.7	4,109.4	4,057.8	11.3	12.2	-94.92	-60.4	550.0	302.7	279.3	23.41	12.929			
4,200.0	4,163.6	4,209.3	4,155.8	11.6	12.5	-94.08	-71.6	565.7	303.7	279.6	24.11	12.594			
4,300.0	4,262.5	4,309.2	4,253.8	11.9	12.9	-93.25	-82.8	581.4	304.7	279.9	24.81	12.281			
4,400.0	4,361.3	4,409.0	4,351.8	12.2	13.3	-92.42	-93.9	597.2	305.8	280.3	25.51	11.990			
4,500.0	4,460.2	4,509.0	4,449.8	12.5	13.7	-91.60	-105.1	612.9	307.0	280.8	26.20	11.719			
4,600.0	4,559.1	4,609.4	4,548.7	12.8	14.0	-91.13	-115.3	627.3	308.2	281.3	26.84	11.481			
4,700.0	4,657.9	4,709.9	4,648.2	13.2	14.3	-91.31	-123.4	638.7	309.1	281.7	27.43	11.269			
4,800.0	4,756.8	4,810.2	4,748.0	13.5	14.5	-92.14	-129.5	647.4	310.0	282.0	27.98	11.081			
4,900.0	4,855.7	4,910.1	4,847.6	13.8	14.7	-93.61	-133.6	653.1	310.9	282.4	28.46	10.924			
5,000.0	4,954.6	5,009.3	4,946.7	14.1	14.8	-95.68	-135.7	656.0	312.1	283.2	28.87	10.808			

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - PL													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,053.4	5,108.0	5,045.4	14.4	14.9	-98.28	-135.9	656.4	313.9	284.7	29.22	10.743		
5,200.0	5,152.3	5,206.9	5,144.3	14.7	15.0	-100.94	-135.9	656.4	316.4	286.9	29.52	10.719 SF		
5,300.0	5,251.2	5,305.7	5,243.2	15.1	15.1	-103.55	-135.9	656.4	319.6	289.9	29.79	10.731		
5,400.0	5,350.0	5,404.6	5,342.0	15.4	15.2	-106.10	-135.9	656.4	323.5	293.5	30.01	10.778		
5,500.0	5,448.9	5,503.5	5,440.9	15.7	15.3	-108.59	-135.9	656.4	328.0	297.8	30.21	10.857		
5,600.0	5,547.8	5,602.4	5,539.8	16.0	15.4	-111.01	-135.9	656.4	333.2	302.8	30.38	10.966		
5,700.0	5,646.6	5,701.2	5,638.6	16.3	15.6	-113.35	-135.9	656.4	338.9	308.3	30.53	11.101		
5,800.0	5,745.5	5,800.1	5,737.5	16.6	15.7	-115.62	-135.9	656.4	345.1	314.5	30.65	11.261		
5,900.0	5,844.4	5,899.0	5,836.4	16.9	15.8	-117.80	-135.9	656.4	351.9	321.2	30.76	11.442		
6,000.0	5,943.3	5,997.8	5,935.3	17.3	15.9	-119.89	-135.9	656.4	359.2	328.4	30.85	11.644		
6,100.0	6,042.1	6,096.7	6,034.1	17.6	16.0	-121.91	-135.9	656.4	367.0	336.1	30.94	11.863		
6,200.0	6,141.0	6,195.6	6,133.0	17.9	16.1	-123.83	-135.9	656.4	375.2	344.2	31.01	12.098		
6,300.0	6,239.9	6,294.5	6,231.9	18.2	16.2	-125.68	-135.9	656.4	383.8	352.7	31.09	12.346		
6,400.0	6,338.7	6,393.3	6,330.7	18.5	16.4	-127.44	-135.9	656.4	392.8	361.6	31.16	12.606		
6,500.0	6,437.6	6,492.2	6,429.6	18.8	16.5	-129.13	-135.9	656.4	402.1	370.9	31.23	12.876		
6,600.0	6,536.5	6,591.1	6,528.5	19.1	16.6	-130.73	-135.9	656.4	411.8	380.5	31.31	13.154		
6,700.0	6,635.4	6,689.9	6,627.4	19.5	16.7	-132.27	-135.9	656.4	421.8	390.4	31.39	13.439		
6,800.0	6,734.2	6,788.8	6,726.2	19.8	16.8	-133.73	-135.9	656.4	432.1	400.6	31.47	13.729		
6,900.0	6,833.1	6,887.7	6,825.1	20.1	17.0	-135.12	-135.9	656.4	442.6	411.1	31.56	14.023		
7,000.0	6,932.0	6,986.6	6,924.0	20.4	17.1	-136.45	-135.9	656.4	453.4	421.8	31.66	14.321		
7,100.0	7,030.8	7,085.4	7,022.8	20.7	17.2	-137.72	-135.9	656.4	464.5	432.7	31.77	14.621		
7,200.0	7,129.7	7,184.3	7,121.7	21.0	17.3	-138.93	-135.9	656.4	475.7	443.8	31.88	14.921		
7,300.0	7,228.6	7,283.2	7,220.6	21.4	17.5	-140.08	-135.9	656.4	487.2	455.2	32.00	15.222		
7,400.0	7,327.5	7,382.0	7,319.5	21.7	17.6	-141.18	-135.9	656.4	498.8	466.7	32.13	15.523		
7,500.0	7,426.4	7,480.9	7,423.4	22.0	17.7	-142.23	-135.9	656.4	510.3	478.2	32.26	15.824		
7,600.0	7,525.3	7,579.8	7,522.3	22.3	17.8	-143.23	-135.9	656.4	521.8	489.7	32.39	16.125		
7,700.0	7,623.0	7,677.5	7,615.0	22.6	17.9	-144.18	-135.9	656.4	533.3	501.2	32.52	16.426		
7,800.0	7,715.6	7,770.1	7,708.1	22.9	18.0	-145.08	-135.9	656.4	544.8	512.7	32.65	16.727		
7,900.0	7,807.7	7,862.2	7,800.2	23.2	18.1	-145.93	-135.9	656.4	556.3	524.2	32.78	17.028		
8,000.0	7,875.7	7,930.2	7,867.7	23.5	18.2	-146.73	-135.9	656.4	567.8	535.7	32.91	17.329		
8,100.0	7,938.2	7,992.7	7,935.7	23.8	18.3	-147.48	-135.9	656.4	579.3	547.2	33.04	17.630		
8,200.0	7,986.5	8,041.0	7,984.0	24.1	18.4	-148.18	-135.9	656.4	590.8	558.7	33.17	17.931		
8,216.1	7,992.8	7,712.6	7,650.0	21.0	18.0	-26.76	-135.9	656.4	405.3	385.2	20.11	20.155		
8,300.0	8,018.9	7,712.6	7,650.0	20.9	18.0	-26.32	-135.9	656.4	408.2	389.0	19.12	21.343		
8,400.0	8,034.6	7,712.6	7,650.0	20.8	18.0	-25.78	-135.9	656.4	418.8	399.9	18.94	22.120		
8,500.0	8,036.0	7,712.6	7,650.0	20.9	18.0	-25.55	-135.9	656.4	439.4	420.0	19.34	22.716		
8,600.0	8,036.0	7,712.6	7,650.0	21.1	18.0	-25.55	-135.9	656.4	479.0	459.4	19.63	24.403		



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #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									
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)						
17,300.0	8,036.0	8,004.8	7,687.8	157.4	15.1	-14.16	9,059.5	624.5	433.4	376.9	56.53	7.666				
17,400.0	8,036.0	7,996.5	7,686.4	159.1	15.0	-12.79	9,060.5	632.6	381.0	326.9	54.10	7.044				
17,500.0	8,036.0	7,988.0	7,685.0	160.8	14.9	-11.38	9,061.6	640.9	349.8	298.2	51.61	6.777 SF				
17,565.6	8,036.0	7,980.0	7,683.6	162.0	14.9	-10.07	9,062.7	648.6	343.7	294.4	49.27	6.976 CC, ES				
17,590.8	8,036.0	7,980.0	7,683.6	162.4	14.9	-10.07	9,062.7	648.6	344.6	295.3	49.36	6.982				

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4G-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

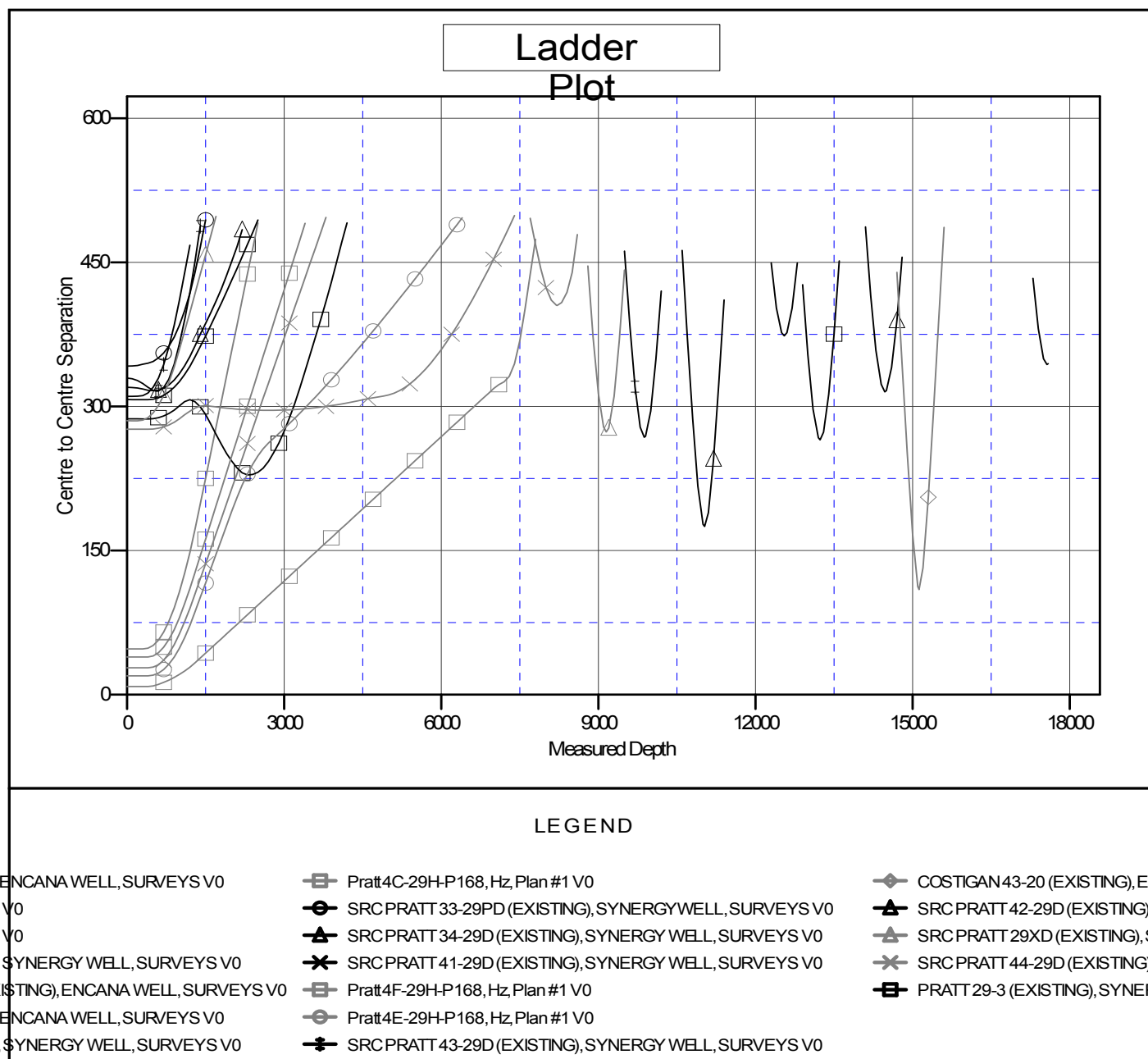
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.31°



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