



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site:	S29-T1N-R68W (Pratt/Waste Connections)	North Reference:	True
Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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

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

Well	Waste Connections 3G-29H-M168					
Well Position	+N/-S	0.0 ft	Northing:	1,250,080.34 ft	Latitude:	40.018900
	+E/-W	0.0 ft	Easting:	3,131,156.82 ft	Longitude:	-105.031730
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,141.0 ft

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

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,149.1	9.49	138.21	1,144.7	-58.5	52.3	1.00	1.00	0.00	138.21	
7,236.2	9.49	138.21	7,148.6	-806.8	721.1	0.00	0.00	0.00	0.00	
8,206.8	90.00	0.00	7,788.0	-238.2	792.4	10.00	8.29	-14.24	-137.82	
16,156.8	90.00	0.00	7,788.0	7,711.8	792.4	0.00	0.00	0.00	0.00	Waste Connections 3

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site:	S29-T1N-R68W (Pratt/Waste Connections)	North Reference:	True
Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	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	KOP @ 200'
300.0	1.00	138.21	300.0	-0.7	0.6	-0.7	1.00	1.00	
400.0	2.00	138.21	400.0	-2.6	2.3	-2.6	1.00	1.00	
500.0	3.00	138.21	499.9	-5.9	5.2	-5.9	1.00	1.00	
600.0	4.00	138.21	599.7	-10.4	9.3	-10.4	1.00	1.00	
700.0	5.00	138.21	699.4	-16.3	14.5	-16.3	1.00	1.00	
704.7	5.05	138.21	704.0	-16.6	14.8	-16.6	1.00	1.00	Fox Hills - BASE
800.0	6.00	138.21	798.9	-23.4	20.9	-23.4	1.00	1.00	
900.0	7.00	138.21	898.3	-31.8	28.5	-31.8	1.00	1.00	
1,000.0	8.00	138.21	997.4	-41.6	37.2	-41.6	1.00	1.00	
1,100.0	9.00	138.21	1,096.3	-52.6	47.0	-52.6	1.00	1.00	
1,149.1	9.49	138.21	1,144.7	-58.5	52.3	-58.5	1.00	1.00	EOB; Inc=9.49°
1,200.0	9.49	138.21	1,195.0	-64.7	57.9	-64.7	0.00	0.00	
1,300.0	9.49	138.21	1,293.6	-77.0	68.8	-77.0	0.00	0.00	
1,400.0	9.49	138.21	1,392.2	-89.3	79.8	-89.3	0.00	0.00	
1,500.0	9.49	138.21	1,490.9	-101.6	90.8	-101.6	0.00	0.00	
1,600.0	9.49	138.21	1,589.5	-113.9	101.8	-113.9	0.00	0.00	
1,700.0	9.49	138.21	1,688.1	-126.2	112.8	-126.2	0.00	0.00	
1,800.0	9.49	138.21	1,786.8	-138.5	123.8	-138.5	0.00	0.00	
1,900.0	9.49	138.21	1,885.4	-150.8	134.8	-150.8	0.00	0.00	
2,000.0	9.49	138.21	1,984.0	-163.1	145.8	-163.1	0.00	0.00	
2,100.0	9.49	138.21	2,082.6	-175.4	156.8	-175.4	0.00	0.00	
2,200.0	9.49	138.21	2,181.3	-187.7	167.7	-187.7	0.00	0.00	
2,300.0	9.49	138.21	2,279.9	-200.0	178.7	-200.0	0.00	0.00	
2,400.0	9.49	138.21	2,378.5	-212.3	189.7	-212.3	0.00	0.00	
2,500.0	9.49	138.21	2,477.2	-224.6	200.7	-224.6	0.00	0.00	
2,600.0	9.49	138.21	2,575.8	-236.8	211.7	-236.8	0.00	0.00	
2,700.0	9.49	138.21	2,674.4	-249.1	222.7	-249.1	0.00	0.00	
2,800.0	9.49	138.21	2,773.1	-261.4	233.7	-261.4	0.00	0.00	
2,900.0	9.49	138.21	2,871.7	-273.7	244.7	-273.7	0.00	0.00	
3,000.0	9.49	138.21	2,970.3	-286.0	255.6	-286.0	0.00	0.00	
3,100.0	9.49	138.21	3,069.0	-298.3	266.6	-298.3	0.00	0.00	
3,200.0	9.49	138.21	3,167.6	-310.6	277.6	-310.6	0.00	0.00	
3,300.0	9.49	138.21	3,266.2	-322.9	288.6	-322.9	0.00	0.00	
3,400.0	9.49	138.21	3,364.9	-335.2	299.6	-335.2	0.00	0.00	
3,500.0	9.49	138.21	3,463.5	-347.5	310.6	-347.5	0.00	0.00	
3,600.0	9.49	138.21	3,562.1	-359.8	321.6	-359.8	0.00	0.00	
3,700.0	9.49	138.21	3,660.7	-372.1	332.6	-372.1	0.00	0.00	
3,800.0	9.49	138.21	3,759.4	-384.4	343.6	-384.4	0.00	0.00	
3,900.0	9.49	138.21	3,858.0	-396.7	354.5	-396.7	0.00	0.00	
4,000.0	9.49	138.21	3,956.6	-409.0	365.5	-409.0	0.00	0.00	
4,100.0	9.49	138.21	4,055.3	-421.3	376.5	-421.3	0.00	0.00	
4,200.0	9.49	138.21	4,153.9	-433.6	387.5	-433.6	0.00	0.00	
4,300.0	9.49	138.21	4,252.5	-445.8	398.5	-445.8	0.00	0.00	
4,400.0	9.49	138.21	4,351.2	-458.1	409.5	-458.1	0.00	0.00	
4,500.0	9.49	138.21	4,449.8	-470.4	420.5	-470.4	0.00	0.00	
4,600.0	9.49	138.21	4,548.4	-482.7	431.5	-482.7	0.00	0.00	
4,700.0	9.49	138.21	4,647.1	-495.0	442.4	-495.0	0.00	0.00	
4,759.8	9.49	138.21	4,706.0	-502.4	449.0	-502.4	0.00	0.00	Sussex
4,800.0	9.49	138.21	4,745.7	-507.3	453.4	-507.3	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site:	S29-T1N-R68W (Pratt/Waste Connections)	North Reference:	True
Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,900.0	9.49	138.21	4,844.3	-519.6	464.4	-519.6	0.00	0.00	
5,000.0	9.49	138.21	4,943.0	-531.9	475.4	-531.9	0.00	0.00	
5,086.2	9.49	138.21	5,028.0	-542.5	484.9	-542.5	0.00	0.00	Sussex Marker
5,100.0	9.49	138.21	5,041.6	-544.2	486.4	-544.2	0.00	0.00	
5,200.0	9.49	138.21	5,140.2	-556.5	497.4	-556.5	0.00	0.00	
5,300.0	9.49	138.21	5,238.8	-568.8	508.4	-568.8	0.00	0.00	
5,400.0	9.49	138.21	5,337.5	-581.1	519.4	-581.1	0.00	0.00	
5,454.3	9.49	138.21	5,391.0	-587.8	525.3	-587.8	0.00	0.00	Shannon
5,500.0	9.49	138.21	5,436.1	-593.4	530.4	-593.4	0.00	0.00	
5,600.0	9.49	138.21	5,534.7	-605.7	541.3	-605.7	0.00	0.00	
5,700.0	9.49	138.21	5,633.4	-618.0	552.3	-618.0	0.00	0.00	
5,800.0	9.49	138.21	5,732.0	-630.3	563.3	-630.3	0.00	0.00	
5,900.0	9.49	138.21	5,830.6	-642.5	574.3	-642.5	0.00	0.00	
6,000.0	9.49	138.21	5,929.3	-654.8	585.3	-654.8	0.00	0.00	
6,100.0	9.49	138.21	6,027.9	-667.1	596.3	-667.1	0.00	0.00	
6,200.0	9.49	138.21	6,126.5	-679.4	607.3	-679.4	0.00	0.00	
6,300.0	9.49	138.21	6,225.2	-691.7	618.3	-691.7	0.00	0.00	
6,400.0	9.49	138.21	6,323.8	-704.0	629.2	-704.0	0.00	0.00	
6,500.0	9.49	138.21	6,422.4	-716.3	640.2	-716.3	0.00	0.00	
6,600.0	9.49	138.21	6,521.1	-728.6	651.2	-728.6	0.00	0.00	
6,700.0	9.49	138.21	6,619.7	-740.9	662.2	-740.9	0.00	0.00	
6,781.4	9.49	138.21	6,700.0	-750.9	671.2	-750.9	0.00	0.00	Teepee Buttes (*if present)
6,800.0	9.49	138.21	6,718.3	-753.2	673.2	-753.2	0.00	0.00	
6,900.0	9.49	138.21	6,816.9	-765.5	684.2	-765.5	0.00	0.00	
7,000.0	9.49	138.21	6,915.6	-777.8	695.2	-777.8	0.00	0.00	
7,100.0	9.49	138.21	7,014.2	-790.1	706.2	-790.1	0.00	0.00	
7,200.0	9.49	138.21	7,112.8	-802.4	717.2	-802.4	0.00	0.00	
7,236.2	9.49	138.21	7,148.6	-806.8	721.1	-806.8	0.00	0.00	Start 10° build @ 7236' MD
7,300.0	6.39	96.15	7,211.8	-811.1	728.2	-811.1	10.00	-4.86	
7,400.0	11.26	34.02	7,310.8	-803.6	739.2	-803.6	10.00	4.87	
7,500.0	20.30	17.53	7,406.9	-778.9	749.9	-778.9	10.00	9.03	
7,600.0	29.94	11.15	7,497.4	-737.8	760.0	-737.8	10.00	9.64	
7,614.7	31.37	10.53	7,510.0	-730.4	761.4	-730.4	10.00	9.76	Sharon Springs
7,685.4	38.31	8.11	7,568.0	-690.6	767.9	-690.6	10.00	9.81	Niobrara
7,700.0	39.75	7.70	7,579.4	-681.5	769.1	-681.5	10.00	9.84	
7,800.0	49.62	5.44	7,650.4	-611.7	777.0	-611.7	10.00	9.87	
7,900.0	59.53	3.76	7,708.3	-530.6	783.5	-530.6	10.00	9.91	
8,000.0	69.45	2.39	7,751.3	-440.6	788.3	-440.6	10.00	9.92	
8,075.0	76.90	1.49	7,773.0	-368.9	790.7	-368.9	10.00	9.93	B Chalk
8,100.0	79.38	1.20	7,778.1	-344.4	791.3	-344.4	10.00	9.94	
8,138.9	83.25	0.76	7,784.0	-306.0	791.9	-306.0	10.00	9.94	B Marl
8,200.0	89.32	0.08	7,788.0	-245.0	792.4	-245.0	10.00	9.94	
8,206.8	90.00	0.00	7,788.0	-238.2	792.4	-238.2	10.00	9.94	LP @ 7788' TVD; 90°
8,300.0	90.00	0.00	7,788.0	-145.0	792.4	-145.0	0.00	0.00	
8,400.0	90.00	0.00	7,788.0	-45.0	792.4	-45.0	0.00	0.00	
8,500.0	90.00	0.00	7,788.0	55.0	792.4	55.0	0.00	0.00	
8,600.0	90.00	0.00	7,788.0	155.0	792.4	155.0	0.00	0.00	
8,700.0	90.00	0.00	7,788.0	255.0	792.4	255.0	0.00	0.00	
8,800.0	90.00	0.00	7,788.0	355.0	792.4	355.0	0.00	0.00	
8,900.0	90.00	0.00	7,788.0	455.0	792.4	455.0	0.00	0.00	
9,000.0	90.00	0.00	7,788.0	555.0	792.4	555.0	0.00	0.00	
9,100.0	90.00	0.00	7,788.0	655.0	792.4	655.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site:	S29-T1N-R68W (Pratt/Waste Connections)	North Reference:	True
Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	0.00	7,788.0	755.0	792.4	755.0	0.00	0.00	
9,300.0	90.00	0.00	7,788.0	855.0	792.4	855.0	0.00	0.00	
9,400.0	90.00	0.00	7,788.0	955.0	792.4	955.0	0.00	0.00	
9,500.0	90.00	0.00	7,788.0	1,055.0	792.4	1,055.0	0.00	0.00	
9,600.0	90.00	0.00	7,788.0	1,155.0	792.4	1,155.0	0.00	0.00	
9,700.0	90.00	0.00	7,788.0	1,255.0	792.4	1,255.0	0.00	0.00	
9,800.0	90.00	0.00	7,788.0	1,355.0	792.4	1,355.0	0.00	0.00	
9,900.0	90.00	0.00	7,788.0	1,455.0	792.4	1,455.0	0.00	0.00	
10,000.0	90.00	0.00	7,788.0	1,555.0	792.4	1,555.0	0.00	0.00	
10,100.0	90.00	0.00	7,788.0	1,655.0	792.4	1,655.0	0.00	0.00	
10,200.0	90.00	0.00	7,788.0	1,755.0	792.4	1,755.0	0.00	0.00	
10,300.0	90.00	0.00	7,788.0	1,855.0	792.4	1,855.0	0.00	0.00	
10,400.0	90.00	0.00	7,788.0	1,955.0	792.4	1,955.0	0.00	0.00	
10,500.0	90.00	0.00	7,788.0	2,055.0	792.4	2,055.0	0.00	0.00	
10,600.0	90.00	0.00	7,788.0	2,155.0	792.4	2,155.0	0.00	0.00	
10,700.0	90.00	0.00	7,788.0	2,255.0	792.4	2,255.0	0.00	0.00	
10,800.0	90.00	0.00	7,788.0	2,355.0	792.4	2,355.0	0.00	0.00	
10,900.0	90.00	0.00	7,788.0	2,455.0	792.4	2,455.0	0.00	0.00	
11,000.0	90.00	0.00	7,788.0	2,555.0	792.4	2,555.0	0.00	0.00	
11,100.0	90.00	0.00	7,788.0	2,655.0	792.4	2,655.0	0.00	0.00	
11,200.0	90.00	0.00	7,788.0	2,755.0	792.4	2,755.0	0.00	0.00	
11,300.0	90.00	0.00	7,788.0	2,855.0	792.4	2,855.0	0.00	0.00	
11,400.0	90.00	0.00	7,788.0	2,955.0	792.4	2,955.0	0.00	0.00	
11,500.0	90.00	0.00	7,788.0	3,055.0	792.4	3,055.0	0.00	0.00	
11,600.0	90.00	0.00	7,788.0	3,155.0	792.4	3,155.0	0.00	0.00	
11,700.0	90.00	0.00	7,788.0	3,255.0	792.4	3,255.0	0.00	0.00	
11,800.0	90.00	0.00	7,788.0	3,355.0	792.4	3,355.0	0.00	0.00	
11,900.0	90.00	0.00	7,788.0	3,455.0	792.4	3,455.0	0.00	0.00	
12,000.0	90.00	0.00	7,788.0	3,555.0	792.4	3,555.0	0.00	0.00	
12,100.0	90.00	0.00	7,788.0	3,655.0	792.4	3,655.0	0.00	0.00	
12,200.0	90.00	0.00	7,788.0	3,755.0	792.4	3,755.0	0.00	0.00	
12,300.0	90.00	0.00	7,788.0	3,855.0	792.4	3,855.0	0.00	0.00	
12,400.0	90.00	0.00	7,788.0	3,955.0	792.4	3,955.0	0.00	0.00	
12,500.0	90.00	0.00	7,788.0	4,055.0	792.4	4,055.0	0.00	0.00	
12,600.0	90.00	0.00	7,788.0	4,155.0	792.4	4,155.0	0.00	0.00	
12,700.0	90.00	0.00	7,788.0	4,255.0	792.4	4,255.0	0.00	0.00	
12,800.0	90.00	0.00	7,788.0	4,355.0	792.4	4,355.0	0.00	0.00	
12,900.0	90.00	0.00	7,788.0	4,455.0	792.4	4,455.0	0.00	0.00	
13,000.0	90.00	0.00	7,788.0	4,555.0	792.4	4,555.0	0.00	0.00	
13,100.0	90.00	0.00	7,788.0	4,655.0	792.4	4,655.0	0.00	0.00	
13,200.0	90.00	0.00	7,788.0	4,755.0	792.4	4,755.0	0.00	0.00	
13,300.0	90.00	0.00	7,788.0	4,855.0	792.4	4,855.0	0.00	0.00	
13,400.0	90.00	0.00	7,788.0	4,955.0	792.4	4,955.0	0.00	0.00	
13,500.0	90.00	0.00	7,788.0	5,055.0	792.4	5,055.0	0.00	0.00	
13,600.0	90.00	0.00	7,788.0	5,155.0	792.4	5,155.0	0.00	0.00	
13,700.0	90.00	0.00	7,788.0	5,255.0	792.4	5,255.0	0.00	0.00	
13,800.0	90.00	0.00	7,788.0	5,355.0	792.4	5,355.0	0.00	0.00	
13,900.0	90.00	0.00	7,788.0	5,455.0	792.4	5,455.0	0.00	0.00	
14,000.0	90.00	0.00	7,788.0	5,555.0	792.4	5,555.0	0.00	0.00	
14,100.0	90.00	0.00	7,788.0	5,655.0	792.4	5,655.0	0.00	0.00	
14,200.0	90.00	0.00	7,788.0	5,755.0	792.4	5,755.0	0.00	0.00	
14,300.0	90.00	0.00	7,788.0	5,855.0	792.4	5,855.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site:	S29-T1N-R68W (Pratt/Waste Connections)	North Reference:	True
Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	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
14,400.0	90.00	0.00	7,788.0	5,955.0	792.4	5,955.0	0.00	0.00	
14,500.0	90.00	0.00	7,788.0	6,055.0	792.4	6,055.0	0.00	0.00	
14,600.0	90.00	0.00	7,788.0	6,155.0	792.4	6,155.0	0.00	0.00	
14,700.0	90.00	0.00	7,788.0	6,255.0	792.4	6,255.0	0.00	0.00	
14,800.0	90.00	0.00	7,788.0	6,355.0	792.4	6,355.0	0.00	0.00	
14,900.0	90.00	0.00	7,788.0	6,455.0	792.4	6,455.0	0.00	0.00	
15,000.0	90.00	0.00	7,788.0	6,555.0	792.4	6,555.0	0.00	0.00	
15,100.0	90.00	0.00	7,788.0	6,655.0	792.4	6,655.0	0.00	0.00	
15,200.0	90.00	0.00	7,788.0	6,755.0	792.4	6,755.0	0.00	0.00	
15,300.0	90.00	0.00	7,788.0	6,855.0	792.4	6,855.0	0.00	0.00	
15,400.0	90.00	0.00	7,788.0	6,955.0	792.4	6,955.0	0.00	0.00	
15,500.0	90.00	0.00	7,788.0	7,055.0	792.4	7,055.0	0.00	0.00	
15,600.0	90.00	0.00	7,788.0	7,155.0	792.4	7,155.0	0.00	0.00	
15,700.0	90.00	0.00	7,788.0	7,255.0	792.4	7,255.0	0.00	0.00	
15,800.0	90.00	0.00	7,788.0	7,355.0	792.4	7,355.0	0.00	0.00	
15,900.0	90.00	0.00	7,788.0	7,455.0	792.4	7,455.0	0.00	0.00	
16,000.0	90.00	0.00	7,788.0	7,555.0	792.4	7,555.0	0.00	0.00	
16,100.0	90.00	0.00	7,788.0	7,655.0	792.4	7,655.0	0.00	0.00	
16,156.8	90.00	0.00	7,788.0	7,711.8	792.4	7,711.8	0.00	0.00	TD at 16156.8 - Waste Connections 3G-29H-M

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									
Waste Connections 3G-29H-M168	0.00	0.00	7,788.0	7,711.8	792.4	1,257,796.21	3,131,908.45	40.040070	-105.028900
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
704.7	704.0	Fox Hills - BASE				
4,759.8	4,706.0	Sussex				
5,086.2	5,028.0	Sussex Marker				
5,454.3	5,391.0	Shannon				
6,781.4	6,700.0	Teepee Buttes (*if present)				
7,614.7	7,510.0	Sharon Springs				
7,685.4	7,568.0	Niobrara				
8,075.0	7,773.0	B Chalk				
8,138.9	7,784.0	B Marl				

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site:	S29-T1N-R68W (Pratt/Waste Connections)	North Reference:	True
Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
1,149.1	1,144.7	-58.5	52.3	EOB; Inc=9.49°
7,236.2	7,148.6	-806.8	721.1	Start 10° build @ 7236' MD
8,206.8	7,788.0	-238.2	792.4	LP @ 7788' TVD; 90°
16,156.8	7,788.0	7,711.8	792.4	TD at 16156.8

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S29-T1N-R68W (Pratt/Waste Connections)

Waste Connections 3G-29H-M168

Hz

Plan #1

Anticollision Report

30 May, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1
------------------	---------

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

Survey Tool Program	Date	5/30/2013
----------------------------	-------------	-----------

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	16,156.8	Plan #1 (Hz)	MWD	Geolink MWD

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
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	14,200.6	7,812.5	316.4	197.6	2.663	CC, ES, SF
COSTIGAN 24-20 (EXISTING) - ENCANA WELL - ENCA	12,916.3	7,955.5	287.7	185.1	2.804	CC, ES, SF
COSTIGAN 33-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 34-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 43-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 4-6-20 (EXISTING) - ENCANA WELL - PLAN	13,530.4	7,941.4	282.9	175.9	2.644	CC, ES, SF
COSTIGAN 6-8-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 8-6-20 (EXISTING) - ENCANA WELL - SUR						Out of range
COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SUR						Out of range
COSTIGAN E UNIT 1 (EXISTING) - ENCANA WELL - NO						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	8,961.6	7,776.0	374.8	343.0	11.782	CC, ES
PRATT 1 (EXISTING) - SYNERGY WELL - NO SURVEY	9,000.0	7,776.0	376.7	344.5	11.697	SF
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	11,737.9	8,016.3	172.6	97.2	2.291	CC, ES, SF
PRATT 22-29 (EXISTING) - ENCANA WELL - SURVEYS	10,111.7	8,349.4	310.0	241.3	4.514	CC, ES, SF
PRATT 2-4-29 (EXISTING) - ENCANA WELL - PLAN ON						Out of range
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV						Out of range
PRATT 4-2-29 (EXISTING) - ENCANA WELL - SURVEY	10,916.3	8,303.5	259.4	189.8	3.725	CC, ES, SF
Pratt 4B-29H-P168 - Hz - Plan #1						Out of range
Pratt 4C-29H-P168 - Hz - Plan #1						Out of range
Pratt 4D-29H-P168 - Hz - Plan #1						Out of range
Pratt 4E-29H-P168 - Hz - Plan #1						Out of range
Pratt 4F-29H-P168 - Hz - Plan #1						Out of range
Pratt 4G-29H-P168 - Hz - Plan #1						Out of range
PRATT F UNIT 1 (EXISTING) - ENCANA WELL - NO SU						Out of range
SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - S	1,054.5	1,077.0	492.2	487.1	96.007	CC, ES
SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - S	1,200.0	1,207.2	496.3	490.2	81.047	SF
SRC PRATT 14-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL -	6,654.6	6,683.5	186.7	146.4	4.632	CC, ES, SF
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	8,291.0	8,014.1	418.8	388.9	14.025	CC, ES, SF
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL	200.0	188.0	497.2	496.5	759.636	CC, ES
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL	300.0	278.3	497.8	496.8	503.433	SF
SRC PRATT 29SD (EXISTING) - SYNERGY WELL - SU						Out of range
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU						Out of range
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLA						Out of range
SRC PRATT 31-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 32-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -						Out of range
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 42-29D (EXISTING) - SYNERGY WELL - S						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary							
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Between Ellipses (ft)	Separation Factor	Warning
S29-T1N-R68W (Pratt/Waste Connections)							
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S							Out of range
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P							Out of range
Waste Connections 3A-29H-M168 - Hz - Plan #1	200.0	199.0	58.8	58.2	90.346	CC, ES	
Waste Connections 3A-29H-M168 - Hz - Plan #1	700.0	690.9	95.9	93.5	39.718	SF	
Waste Connections 3B-29H-M168 - Hz - Plan #1	200.0	199.0	50.4	49.8	77.440	CC, ES	
Waste Connections 3B-29H-M168 - Hz - Plan #1	700.0	694.8	76.5	74.1	31.341	SF	
Waste Connections 3C-29H-M168 - Hz - Plan #1	200.0	199.0	39.2	38.6	60.231	CC, ES	
Waste Connections 3C-29H-M168 - Hz - Plan #1	900.0	897.7	72.2	69.0	22.250	SF	
Waste Connections 3D-29H-M168 - Hz - Plan #1	200.0	199.0	30.8	30.2	47.324	CC, ES	
Waste Connections 3D-29H-M168 - Hz - Plan #1	600.0	598.3	41.8	39.8	20.320	SF	
Waste Connections 3E-29H-M168 - Hz - Plan #1	200.0	199.0	19.6	19.0	30.115	CC, ES	
Waste Connections 3E-29H-M168 - Hz - Plan #1	700.0	699.1	34.7	32.2	14.246	SF	
Waste Connections 3F-29H-M168 - Hz - Plan #1	200.0	199.0	11.2	10.6	17.209	CC, ES	
Waste Connections 3F-29H-M168 - Hz - Plan #1	16,047.4	16,990.0	418.3	188.2	1.818	SF	
WILLIAM H PELTIER 1 (EXISTING) - VESSELS WELL -							Out of range
WILLIAM H PELTIER 2 (EXISTING) - ENCANA WELL - P							Out of range
WILLIAM H PELTIER 2 (EXISTING) - ENCANA WELL - S							Out of range
WILLIAM PELTIER 11-20 (EXISTING) - ENCANA WELL							Out of range
WILLIAM PELTIER 12-20 (EXISTING) - ENCANA WELL							Out of range
WILLIAM PELTIER 12-20 (EXISTING) - ENCANA WELL							Out of range
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	16,127.1	10,521.7	115.3	73.4	2.747	CC, ES	
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	16,156.8	10,516.1	119.0	75.4	2.733	SF	
WILLIAM PELTIER 2-0-20 (EXISTING) - ENCANA WELL							Out of range
WILLIAM PELTIER 22-20 (EXISTING) - ENCANA WELL	15,672.4	7,926.7	218.4	75.2	1.525	CC, ES, SF	
WILLIAM PELTIER 2-4-20 (EXISTING) - ENCANA WELL							Out of range
WILLIAM PELTIER 4-2-20 (EXISTING) - ENCANA WELL	16,156.8	8,130.5	315.0	159.1	2.021	CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 23-20 (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					
13,900.0	7,788.0	7,812.5	7,722.0	99.6	22.8	-90.00	5,755.6	476.0	436.5	322.9	113.59	3.842					
14,000.0	7,788.0	7,812.5	7,722.0	101.3	22.8	-90.00	5,755.6	476.0	374.6	259.3	115.32	3.249					
14,100.0	7,788.0	7,812.5	7,722.0	103.0	22.8	-90.00	5,755.6	476.0	332.0	215.0	117.06	2.836					
14,200.0	7,788.0	7,812.5	7,722.0	104.7	22.8	-90.00	5,755.6	476.0	316.4	197.6	118.80	2.663					
14,200.6	7,788.0	7,812.5	7,722.0	104.8	22.8	-90.00	5,755.6	476.0	316.4	197.6	118.81	2.663	CC, ES, SF				
14,300.0	7,788.0	7,812.5	7,722.0	106.5	22.8	-90.00	5,755.6	476.0	331.6	211.1	120.53	2.751					
14,400.0	7,788.0	7,812.5	7,722.0	108.2	22.8	-90.00	5,755.6	476.0	374.0	251.7	122.27	3.058					
14,500.0	7,788.0	7,812.5	7,722.0	109.9	22.8	-90.00	5,755.6	476.0	435.6	311.6	124.01	3.512					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 24-20 (EXISTING) - ENCANA WELL - ENCAN													Offset Site Error:	0.0 ft
Survey Program: 1173-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		
12,600.0	7,788.0	7,952.9	7,725.6	77.4	27.8	-90.52	4,471.2	504.7	427.5	330.4	97.13	4.402		
12,700.0	7,788.0	7,953.7	7,726.4	79.1	27.8	-90.68	4,471.2	504.7	359.9	261.0	98.85	3.641		
12,800.0	7,788.0	7,954.6	7,727.2	80.8	27.8	-90.84	4,471.2	504.7	310.3	209.7	100.58	3.085		
12,900.0	7,788.0	7,955.4	7,728.0	82.5	27.8	-91.00	4,471.2	504.8	288.1	185.8	102.30	2.816		
12,916.3	7,788.0	7,955.5	7,728.2	82.8	27.8	-91.03	4,471.2	504.8	287.7	185.1	102.58	2.804	CC, ES, SF	
13,000.0	7,788.0	7,956.2	7,728.8	84.2	27.8	-91.16	4,471.2	504.8	299.6	195.6	104.02	2.880		
13,100.0	7,788.0	7,957.0	7,729.6	85.9	27.8	-91.32	4,471.2	504.8	341.3	235.6	105.75	3.228		
13,200.0	7,788.0	7,957.8	7,730.4	87.6	27.8	-91.48	4,471.3	504.8	404.0	296.6	107.47	3.759		
13,300.0	7,788.0	7,958.6	7,731.2	89.3	27.8	-91.64	4,471.3	504.8	479.6	370.4	109.20	4.392		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 4-6-20 (EXISTING) - ENCANA WELL - PLAN													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
13,200.0	7,788.0	7,941.4	7,721.0	87.6	32.1	90.00	5,085.4	1,075.3	435.0	333.7	101.29	4.295		
13,300.0	7,788.0	7,941.4	7,721.0	89.3	32.1	90.00	5,085.4	1,075.3	364.9	261.9	103.02	3.542		
13,400.0	7,788.0	7,941.4	7,721.0	91.0	32.1	90.00	5,085.4	1,075.3	311.5	206.8	104.75	2.974		
13,500.0	7,788.0	7,941.4	7,721.0	92.7	32.1	90.00	5,085.4	1,075.3	284.5	178.0	106.48	2.672		
13,530.4	7,788.0	7,941.4	7,721.0	93.2	32.1	90.00	5,085.4	1,075.3	282.9	175.9	107.01	2.644	CC, ES, SF	
13,600.0	7,788.0	7,941.4	7,721.0	94.4	32.1	90.00	5,085.4	1,075.3	291.3	183.1	108.21	2.692		
13,700.0	7,788.0	7,941.4	7,721.0	96.1	32.1	90.00	5,085.4	1,075.3	329.8	219.9	109.95	3.000		
13,800.0	7,788.0	7,941.4	7,721.0	97.9	32.1	90.00	5,085.4	1,075.3	390.8	279.1	111.68	3.499		
13,900.0	7,788.0	7,941.4	7,721.0	99.6	32.1	90.00	5,085.4	1,075.3	465.4	352.0	113.41	4.104		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S29-T1N-R68W (Pratt/Waste Connections) - PRATT 1 (EXISTING) - SYNERGY WELL - NO SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:													8070-MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor						
8,700.0	7,788.0	7,776.0	7,776.0	21.1	13.6	-90.00	516.6	417.6	457.1	427.6	29.49	15.502						
8,800.0	7,788.0	7,776.0	7,776.0	21.7	13.6	-90.00	516.6	417.6	408.2	377.9	30.26	13.489						
8,900.0	7,788.0	7,776.0	7,776.0	22.4	13.6	-90.00	516.6	417.6	379.8	348.6	31.17	12.184						
8,961.6	7,788.0	7,776.0	7,776.0	22.9	13.6	-90.00	516.6	417.6	374.8	343.0	31.81	11.782 CC, ES						
9,000.0	7,788.0	7,776.0	7,776.0	23.3	13.6	-90.00	516.6	417.6	376.7	344.5	32.21	11.697 SF						
9,100.0	7,788.0	7,776.0	7,776.0	24.2	13.6	-90.00	516.6	417.6	399.5	366.2	33.34	11.981						
9,200.0	7,788.0	7,776.0	7,776.0	25.2	13.6	-90.00	516.6	417.6	444.2	409.6	34.57	12.850						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 21-29 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 163-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,300.0	7,788.0	8,009.5	7,745.0	55.7	33.5	-88.34	3,292.7	619.7	470.6	402.8	67.76	6.945		
11,400.0	7,788.0	8,011.0	7,746.6	57.3	33.5	-88.86	3,292.8	619.8	379.4	309.9	69.49	5.459		
11,500.0	7,788.0	8,012.6	7,748.1	59.0	33.5	-89.38	3,292.8	619.8	293.9	222.6	71.21	4.126		
11,600.0	7,788.0	8,014.1	7,749.7	60.6	33.5	-89.90	3,292.8	619.8	220.9	147.9	72.94	3.028		
11,700.0	7,788.0	8,015.7	7,751.3	62.3	33.5	-90.42	3,292.8	619.8	176.7	102.0	74.66	2.366		
11,737.9	7,788.0	8,016.3	7,751.9	62.9	33.5	-90.62	3,292.8	619.8	172.6	97.2	75.31	2.291	CC, ES, SF	
11,800.0	7,788.0	8,017.3	7,752.8	63.9	33.5	-90.95	3,292.9	619.8	183.4	107.0	76.38	2.401		
11,900.0	7,788.0	8,018.9	7,754.4	65.6	33.5	-91.47	3,292.9	619.8	236.8	158.7	78.09	3.032		
12,000.0	7,788.0	8,020.5	7,756.0	67.3	33.5	-91.99	3,292.9	619.9	313.8	234.0	79.81	3.932		
12,100.0	7,788.0	8,022.0	7,757.6	69.0	33.5	-92.52	3,292.9	619.9	401.1	319.6	81.51	4.921		
12,200.0	7,788.0	8,023.6	7,759.2	70.6	33.5	-93.05	3,293.0	619.9	493.2	410.0	83.21	5.927		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 22-29 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 132-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		
9,800.0	7,788.0	8,358.3	7,775.1	32.6	44.6	-92.24	1,666.4	482.5	439.5	375.7	63.83	6.886		
9,900.0	7,788.0	8,355.4	7,772.3	34.0	44.6	-91.71	1,666.5	482.4	375.3	310.0	65.36	5.742		
10,000.0	7,788.0	8,352.6	7,769.4	35.4	44.6	-91.18	1,666.6	482.4	329.5	262.6	66.92	4.924		
10,100.0	7,788.0	8,349.8	7,766.6	36.9	44.6	-90.66	1,666.6	482.4	310.2	241.7	68.49	4.529		
10,111.7	7,788.0	8,349.4	7,766.3	37.0	44.6	-90.60	1,666.6	482.4	310.0	241.3	68.68	4.514 CC, ES, SF		
10,200.0	7,788.0	8,347.0	7,763.8	38.3	44.6	-90.15	1,666.7	482.4	322.3	252.3	70.07	4.600		
10,300.0	7,788.0	8,344.2	7,761.0	39.8	44.6	-89.63	1,666.8	482.3	362.7	291.0	71.67	5.061		
10,400.0	7,788.0	8,341.4	7,758.3	41.4	44.6	-89.13	1,666.9	482.3	423.3	350.0	73.27	5.777		
10,500.0	7,788.0	8,338.7	7,755.6	42.9	44.6	-88.63	1,666.9	482.3	496.8	421.9	74.88	6.635		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 4-2-29 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 193-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
10,500.0	7,788.0	8,291.2	7,752.8	42.9	45.5	87.74	2,470.9	1,051.9	490.3	427.5	62.80	7.808	
10,600.0	7,788.0	8,294.3	7,755.8	44.5	45.5	88.42	2,471.0	1,051.8	408.9	344.5	64.44	6.346	
10,700.0	7,788.0	8,297.3	7,758.8	46.0	45.5	89.08	2,471.1	1,051.8	337.7	271.6	66.08	5.110	
10,800.0	7,788.0	8,300.2	7,761.8	47.6	45.5	89.72	2,471.1	1,051.8	284.3	216.5	67.73	4.197	
10,900.0	7,788.0	8,303.1	7,764.6	49.2	45.5	90.35	2,471.2	1,051.8	259.9	190.5	69.37	3.747	
10,916.3	7,788.0	8,303.5	7,765.1	49.5	45.5	90.46	2,471.2	1,051.8	259.4	189.8	69.64	3.725 CC, ES, SF	
11,000.0	7,788.0	8,305.8	7,767.4	50.8	45.5	90.97	2,471.3	1,051.7	272.6	201.6	71.02	3.838	
11,100.0	7,788.0	8,308.6	7,770.1	52.4	45.5	91.57	2,471.4	1,051.7	317.8	245.2	72.66	4.374	
11,200.0	7,788.0	8,311.2	7,772.7	54.1	45.5	92.15	2,471.5	1,051.7	384.4	310.0	74.31	5.172	
11,300.0	7,788.0	8,313.8	7,775.3	55.7	45.5	92.72	2,471.5	1,051.7	463.1	387.1	75.95	6.097	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - SU												Offset Well Error:	0.0 ft
Survey Program: 248-MWD													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
900.0	898.3	929.4	922.2	1.8	2.3	94.37	-334.7	-363.3	495.7	491.7	4.06	122.040	
1,000.0	997.4	1,028.3	1,018.4	2.0	2.7	98.44	-314.0	-372.9	492.7	488.0	4.75	103.660	
1,054.5	1,051.3	1,077.0	1,065.7	2.2	2.9	100.54	-303.5	-377.7	492.2	487.1	5.13	96.007 CC, ES	
1,100.0	1,096.3	1,117.0	1,104.6	2.3	3.1	102.32	-294.8	-381.9	492.6	487.2	5.43	90.662	
1,200.0	1,195.0	1,207.2	1,192.1	2.7	3.5	106.41	-275.2	-391.6	496.3	490.2	6.12	81.047 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL - S														Offset Site Error:	0.0 ft
Survey Program: 248-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		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	1.0	1.0	0.0	0.0	-145.15	-409.0	-284.8	498.4						
100.0	100.0	103.5	103.5	0.2	0.2	-145.12	-408.7	-284.9	498.2	497.9	0.33	1,532.556			
200.0	200.0	206.0	206.0	0.3	0.3	-145.05	-407.7	-285.0	497.4	496.8	0.67	741.229			
300.0	300.0	308.9	308.9	0.5	0.5	76.88	-406.5	-284.3	496.0	494.9	1.02	486.354			
400.0	400.0	400.4	400.3	0.7	0.7	76.75	-407.7	-280.9	494.3	492.9	1.36	362.173			
428.0	427.9	424.5	424.4	0.7	0.7	76.67	-408.7	-279.6	494.2	492.7	1.46	337.941			
500.0	499.9	492.1	491.7	0.9	0.9	76.35	-412.8	-275.5	494.5	492.7	1.74	283.871			
600.0	599.7	592.0	590.9	1.1	1.1	75.68	-421.1	-267.0	495.1	492.9	2.19	226.400			
700.0	699.4	701.6	699.2	1.3	1.4	74.76	-431.3	-254.2	494.4	491.7	2.72	182.025			
800.0	798.9	811.3	807.3	1.5	1.8	73.77	-440.7	-237.9	491.1	487.8	3.30	148.878			
900.0	898.3	911.4	905.6	1.8	2.2	72.87	-449.3	-221.1	486.4	482.5	3.90	124.594			
1,000.0	997.4	1,011.6	1,003.9	2.0	2.5	72.09	-458.1	-203.8	481.2	476.7	4.53	106.289			
1,100.0	1,096.3	1,108.6	1,099.2	2.3	2.9	71.58	-466.5	-187.6	475.7	470.6	5.16	92.134			
1,200.0	1,195.0	1,213.9	1,202.3	2.7	3.3	70.95	-476.2	-168.4	469.6	463.7	5.89	79.673			
1,300.0	1,293.6	1,315.0	1,300.5	3.0	3.8	69.94	-486.3	-146.7	462.6	455.9	6.65	69.556			
1,400.0	1,392.2	1,405.4	1,388.0	3.3	4.2	68.81	-496.7	-126.4	456.6	449.3	7.37	61.922			
1,500.0	1,490.9	1,499.7	1,479.0	3.6	4.6	67.55	-509.1	-105.5	452.5	444.4	8.11	55.762			
1,600.0	1,589.5	1,597.8	1,574.1	4.0	5.1	66.32	-522.3	-84.8	449.3	440.5	8.85	50.781			
1,700.0	1,688.1	1,702.2	1,675.5	4.3	5.5	65.18	-535.3	-63.9	445.8	436.2	9.59	46.506			
1,800.0	1,786.8	1,808.4	1,778.9	4.6	6.0	64.14	-547.2	-43.1	441.5	431.2	10.32	42.767			
1,900.0	1,885.4	1,912.9	1,880.6	4.9	6.5	62.98	-557.1	-21.1	435.2	424.1	11.07	39.313			
2,000.0	1,984.0	2,006.2	1,971.0	5.3	6.9	61.69	-567.1	-0.1	429.7	418.0	11.78	36.485			
2,100.0	2,082.6	2,104.5	2,065.9	5.6	7.4	60.17	-579.0	22.6	425.7	413.2	12.49	34.075			
2,200.0	2,181.3	2,203.9	2,162.0	5.9	7.9	58.65	-590.5	45.3	421.5	408.3	13.20	31.937			
2,300.0	2,279.9	2,302.5	2,257.4	6.3	8.4	57.14	-602.3	67.6	418.1	404.2	13.87	30.153			
2,400.0	2,378.5	2,402.7	2,354.5	6.6	8.8	55.74	-613.9	89.2	414.7	400.2	14.55	28.514			
2,500.0	2,477.2	2,506.2	2,454.4	6.9	9.3	54.03	-625.7	113.2	411.3	396.1	15.20	27.048			
2,600.0	2,575.8	2,601.7	2,547.0	7.3	9.8	52.58	-636.1	134.4	407.7	391.9	15.80	25.799			
2,700.0	2,674.4	2,710.0	2,652.2	7.6	10.3	51.07	-647.3	157.4	404.1	387.7	16.43	24.599			
2,800.0	2,773.1	2,808.2	2,748.0	8.0	10.7	49.90	-656.1	176.8	399.6	382.6	16.98	23.536			
2,900.0	2,871.7	2,907.0	2,844.8	8.3	11.1	48.88	-665.1	195.1	395.5	378.0	17.54	22.545			
3,000.0	2,970.3	2,999.3	2,934.5	8.6	11.5	47.62	-674.9	214.1	392.8	374.7	18.09	21.716			
3,100.0	3,069.0	3,102.2	3,034.0	9.0	12.0	45.80	-686.1	237.8	390.5	371.9	18.62	20.972			
3,198.6	3,166.2	3,192.4	3,121.2	9.3	12.4	44.26	-696.6	258.1	389.4	370.3	19.07	20.419			
3,200.0	3,167.6	3,193.7	3,122.5	9.3	12.4	44.24	-696.8	258.4	389.4	370.3	19.08	20.412			
3,300.0	3,266.2	3,287.9	3,213.8	9.6	12.9	42.83	-709.5	278.2	390.4	370.9	19.53	19.985			
3,400.0	3,364.9	3,388.1	3,310.5	10.0	13.4	41.17	-723.2	300.4	391.9	371.9	19.99	19.605			
3,500.0	3,463.5	3,485.0	3,403.5	10.3	13.9	39.25	-736.9	324.1	394.3	374.0	20.38	19.348			
3,600.0	3,562.1	3,586.9	3,501.2	10.6	14.5	37.22	-750.7	349.2	396.8	376.1	20.73	19.144			
3,700.0	3,660.7	3,683.4	3,594.1	11.0	15.0	35.52	-764.1	371.7	399.7	378.7	21.06	18.984			
3,800.0	3,759.4	3,782.0	3,688.9	11.3	15.5	33.81	-778.6	394.7	403.9	382.5	21.36	18.906			
3,900.0	3,858.0	3,892.4	3,795.4	11.7	16.0	32.04	-793.4	419.6	407.0	385.4	21.65	18.802			
4,000.0	3,956.6	4,011.0	3,911.0	12.0	16.5	30.45	-805.3	443.5	406.6	384.7	21.94	18.533			
4,100.0	4,055.3	4,108.5	4,006.6	12.3	16.9	29.41	-813.2	460.8	403.9	381.7	22.23	18.168			
4,200.0	4,153.9	4,206.7	4,103.0	12.7	17.2	28.56	-822.1	477.0	402.1	379.6	22.55	17.837			
4,300.0	4,252.5	4,310.5	4,205.1	13.0	17.6	27.82	-831.7	493.0	400.2	377.3	22.87	17.500			
4,400.0	4,351.2	4,423.8	4,317.3	13.3	17.9	27.45	-840.2	506.7	395.8	372.5	23.24	17.030			
4,500.0	4,449.8	4,529.5	4,422.4	13.7	18.1	27.58	-846.7	515.7	389.1	365.5	23.68	16.432			
4,600.0	4,548.4	4,640.7	4,533.3	14.0	18.3	28.11	-852.0	522.3	380.6	356.4	24.20	15.730			
4,700.0	4,647.1	4,747.2	4,639.7	14.4	18.4	29.07	-854.5	525.1	368.9	344.1	24.80	14.879			
4,800.0	4,745.7	4,848.5	4,741.0	14.7	18.5	30.18	-856.1	526.8	356.5	331.1	25.42	14.022			
4,900.0	4,844.3	4,948.5	4,840.9	15.0	18.6	31.45	-857.4	527.8	343.7	317.6	26.08	13.176			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL - S													Offset Site Error:	0.0 ft
Survey Program: 248-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)						
5,000.0	4,943.0	5,048.0	4,940.5	15.4	18.7	32.89	-858.5	528.3	330.8	304.0	26.79	12.348		
5,100.0	5,041.6	5,147.8	5,040.2	15.7	18.8	34.49	-859.3	528.6	317.9	290.4	27.55	11.542		
5,200.0	5,140.2	5,247.5	5,139.9	16.0	18.9	36.17	-859.9	529.1	305.0	276.7	28.33	10.767		
5,300.0	5,238.8	5,345.9	5,238.3	16.4	19.0	37.97	-860.3	529.6	292.3	263.1	29.14	10.032		
5,400.0	5,337.5	5,444.3	5,336.7	16.7	19.1	39.96	-860.8	530.0	280.0	250.0	29.99	9.337		
5,500.0	5,436.1	5,542.9	5,435.3	17.1	19.2	42.21	-861.5	530.0	268.1	237.2	30.89	8.681		
5,600.0	5,534.7	5,641.6	5,534.0	17.4	19.2	44.75	-862.1	529.6	256.7	224.9	31.85	8.062		
5,700.0	5,633.4	5,740.8	5,633.2	17.7	19.3	47.58	-862.7	529.1	245.8	213.0	32.85	7.482		
5,800.0	5,732.0	5,840.0	5,732.4	18.1	19.4	50.68	-862.9	528.4	235.3	201.4	33.88	6.944		
5,900.0	5,830.6	5,939.0	5,831.4	18.4	19.5	54.11	-863.0	527.6	225.3	190.4	34.94	6.450		
6,000.0	5,929.3	6,037.7	5,930.1	18.7	19.6	57.90	-862.8	526.6	216.1	180.1	35.99	6.005		
6,100.0	6,027.9	6,136.1	6,028.5	19.1	19.6	62.05	-862.6	525.3	207.9	170.9	37.01	5.619		
6,200.0	6,126.5	6,234.4	6,126.8	19.4	19.7	66.58	-862.3	523.8	201.0	163.0	37.96	5.295		
6,300.0	6,225.2	6,332.6	6,225.0	19.8	19.8	71.43	-861.9	522.1	195.5	156.7	38.79	5.039		
6,400.0	6,323.8	6,431.5	6,323.9	20.1	19.9	76.56	-861.6	520.4	191.5	152.0	39.48	4.850		
6,500.0	6,422.4	6,531.0	6,423.3	20.4	19.9	81.74	-861.1	519.4	188.6	148.7	39.97	4.719		
6,600.0	6,521.1	6,629.7	6,522.0	20.8	20.0	86.92	-860.6	518.8	187.0	146.7	40.25	4.644		
6,654.6	6,574.9	6,683.5	6,575.8	21.0	20.1	89.80	-860.2	518.5	186.7	146.4	40.31	4.632 CC, ES, SF		
6,700.0	6,619.7	6,728.1	6,620.5	21.1	20.1	92.21	-859.9	518.1	186.9	146.6	40.31	4.636		
6,800.0	6,718.3	6,826.5	6,718.8	21.4	20.2	97.58	-858.8	517.1	188.5	148.4	40.13	4.697		
6,900.0	6,816.9	6,924.6	6,816.9	21.8	20.2	103.01	-857.2	515.7	191.9	152.2	39.71	4.832		
7,000.0	6,915.6	7,021.7	6,914.0	22.1	20.3	108.24	-855.5	513.8	197.3	158.2	39.14	5.040		
7,100.0	7,014.2	7,118.9	7,011.1	22.5	20.4	113.05	-854.3	511.7	204.9	166.4	38.50	5.321		
7,200.0	7,112.8	7,216.8	7,108.9	22.8	20.5	117.45	-853.5	509.2	214.2	176.3	37.85	5.659		
7,300.0	7,211.8	7,315.0	7,207.2	23.1	20.5	163.00	-853.0	506.7	225.5	188.3	37.16	6.066		
7,400.0	7,310.8	7,413.5	7,305.6	23.1	20.6	-135.03	-852.6	504.1	240.2	203.2	37.05	6.485		
7,500.0	7,406.9	7,509.1	7,401.2	23.0	20.7	-121.86	-852.3	501.5	259.1	221.8	37.34	6.941		
7,600.0	7,497.4	7,598.8	7,490.9	22.8	20.7	-120.40	-852.2	498.9	285.1	247.8	37.37	7.630		
7,700.0	7,579.4	7,680.0	7,572.0	22.4	20.8	-121.73	-852.3	496.6	321.8	285.1	36.61	8.790		
7,800.0	7,650.4	7,753.6	7,645.6	22.0	20.9	-123.07	-852.3	494.7	371.0	335.9	35.06	10.582		
7,900.0	7,708.3	7,814.1	7,706.1	21.5	20.9	-122.32	-852.2	493.7	433.0	399.8	33.13	13.067		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SUR										Offset Site Error:		0.0 ft	
Survey Program:		218-MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)					
8,100.0	7,778.1	8,007.2	7,806.7	20.6	29.2	83.55	-153.9	1,210.7	460.8	430.6	30.24	15.237			
8,200.0	7,788.0	8,015.1	7,814.6	20.4	29.2	88.15	-154.1	1,211.0	428.6	398.6	30.02	14.276			
8,291.0	7,788.5	8,014.1	7,813.5	20.2	29.2	88.08	-154.1	1,211.0	418.8	388.9	29.86	14.025	CC, ES, SF		
8,300.0	7,788.0	8,013.4	7,812.8	20.2	29.2	88.06	-154.1	1,210.9	418.9	389.1	29.84	14.038			
8,400.0	7,788.0	8,011.6	7,811.1	20.2	29.2	87.82	-154.0	1,210.9	432.8	402.9	29.85	14.496			
8,500.0	7,788.0	8,009.9	7,809.3	20.4	29.2	87.58	-154.0	1,210.8	468.0	438.0	30.07	15.564			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PLA		Offset Site Error:		0.0 ft	
Survey Program: 0-MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning					
(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	-145.28	-408.6	-283.2	497.3									
100.0	100.0	88.0	88.0	0.2	0.2	-145.28	-408.6	-283.2	497.2	496.9	0.31	1,627.663						
200.0	200.0	188.0	188.0	0.3	0.3	-145.28	-408.6	-283.2	497.2	496.5	0.65	759.636	CC, ES					
300.0	300.0	278.3	278.3	0.5	0.5	76.51	-409.7	-283.0	497.8	496.8	0.99	503.433	SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3A-29H-M168 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.1	-58.8	58.8					
100.0	100.0	99.0	99.0	0.2	0.2	-89.95	0.1	-58.8	58.8	58.5	0.30	194.646		
200.0	200.0	199.0	199.0	0.3	0.3	-89.95	0.1	-58.8	58.8	58.2	0.65	90.346	CC, ES	
300.0	300.0	298.0	298.0	0.5	0.5	132.41	0.0	-59.7	60.2	59.2	1.00	60.323		
400.0	400.0	396.8	396.7	0.7	0.7	133.96	-0.1	-62.2	64.6	63.3	1.35	47.919		
500.0	499.9	495.3	495.2	0.9	0.9	136.12	-0.3	-66.4	72.0	70.3	1.70	42.319		
600.0	599.7	593.4	593.1	1.1	1.1	138.47	-0.5	-72.3	82.4	80.3	2.06	40.072		
700.0	699.4	690.9	690.3	1.3	1.3	140.73	-0.8	-79.8	95.9	93.5	2.42	39.718	SF	
800.0	798.9	787.7	786.7	1.5	1.5	142.73	-1.1	-88.9	112.6	109.8	2.78	40.517		
900.0	898.3	883.7	882.1	1.8	1.7	144.43	-1.6	-99.5	132.4	129.2	3.15	42.052		
1,000.0	997.4	978.7	976.3	2.0	2.0	145.82	-2.0	-111.6	155.2	151.7	3.52	44.065		
1,100.0	1,096.3	1,072.6	1,069.2	2.3	2.3	146.96	-2.6	-125.1	181.1	177.2	3.90	46.390		
1,200.0	1,195.0	1,165.3	1,160.8	2.7	2.6	147.92	-3.2	-139.9	209.7	205.5	4.29	48.875		
1,300.0	1,293.6	1,259.4	1,253.5	3.0	2.9	148.65	-3.8	-156.1	239.8	235.1	4.69	51.149		
1,400.0	1,392.2	1,354.8	1,347.3	3.3	3.2	149.22	-4.5	-172.6	270.0	264.9	5.09	53.043		
1,500.0	1,490.9	1,450.1	1,441.2	3.6	3.5	149.67	-5.1	-189.2	300.1	294.6	5.49	54.641		
1,600.0	1,589.5	1,545.4	1,535.1	4.0	3.8	150.04	-5.8	-205.7	330.3	324.4	5.90	56.007		
1,700.0	1,688.1	1,640.7	1,628.9	4.3	4.2	150.35	-6.4	-222.3	360.6	354.2	6.31	57.185		
1,800.0	1,786.8	1,736.0	1,722.8	4.6	4.5	150.61	-7.1	-238.8	390.8	384.1	6.71	58.211		
1,900.0	1,885.4	1,831.3	1,816.6	4.9	4.8	150.84	-7.8	-255.3	421.0	413.9	7.12	59.112		
2,000.0	1,984.0	1,926.6	1,910.5	5.3	5.1	151.03	-8.4	-271.9	451.2	443.7	7.53	59.909		
2,100.0	2,082.6	2,021.9	2,004.4	5.6	5.5	151.20	-9.1	-288.4	481.5	473.5	7.94	60.619		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3B-29H-M168 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-50.4	50.4					
100.0	100.0	99.0	99.0	0.2	0.2	-89.95	0.0	-50.4	50.4	50.1	0.30	166.840		
200.0	200.0	199.0	199.0	0.3	0.3	-89.95	0.0	-50.4	50.4	49.8	0.65	77.440	CC, ES	
300.0	300.0	299.0	299.0	0.5	0.5	132.56	0.0	-50.4	51.0	50.0	1.00	50.973		
400.0	400.0	398.2	398.2	0.7	0.7	134.06	-0.5	-51.1	53.5	52.1	1.35	39.577		
500.0	499.9	497.4	497.3	0.9	0.9	135.52	-2.0	-53.2	58.6	56.8	1.71	34.316		
600.0	599.7	596.2	596.1	1.1	1.0	136.78	-4.4	-56.6	66.2	64.2	2.07	32.018		
700.0	699.4	694.8	694.5	1.3	1.2	137.77	-7.9	-61.4	76.5	74.1	2.44	31.341	SF	
800.0	798.9	792.9	792.3	1.5	1.4	138.48	-12.4	-67.6	89.4	86.5	2.83	31.612		
900.0	898.3	890.5	889.4	1.8	1.7	138.97	-17.8	-75.0	104.7	101.5	3.23	32.456		
1,000.0	997.4	987.5	985.8	2.0	1.9	139.28	-24.1	-83.8	122.7	119.0	3.65	33.644		
1,100.0	1,096.3	1,083.8	1,081.3	2.3	2.1	139.45	-31.3	-93.8	143.1	139.0	4.08	35.034		
1,200.0	1,195.0	1,179.3	1,175.9	2.7	2.4	139.55	-39.4	-105.0	165.8	161.2	4.54	36.506		
1,300.0	1,293.6	1,275.9	1,271.3	3.0	2.7	139.47	-48.3	-117.2	189.5	184.5	5.01	37.808		
1,400.0	1,392.2	1,373.0	1,367.2	3.3	3.0	139.39	-57.3	-129.6	213.2	207.8	5.49	38.844		
1,500.0	1,490.9	1,470.2	1,463.1	3.6	3.3	139.33	-66.3	-142.0	237.0	231.0	5.97	39.685		
1,600.0	1,589.5	1,567.3	1,559.0	4.0	3.6	139.28	-75.2	-154.4	260.8	254.3	6.46	40.380		
1,700.0	1,688.1	1,664.4	1,654.9	4.3	3.9	139.24	-84.2	-166.8	284.5	277.6	6.95	40.962		
1,800.0	1,786.8	1,761.6	1,750.9	4.6	4.2	139.20	-93.2	-179.2	308.3	300.9	7.44	41.456		
1,900.0	1,885.4	1,858.7	1,846.8	4.9	4.5	139.17	-102.1	-191.6	332.1	324.1	7.93	41.879		
2,000.0	1,984.0	1,955.8	1,942.7	5.3	4.9	139.15	-111.1	-203.9	355.8	347.4	8.42	42.246		
2,100.0	2,082.6	2,053.0	2,038.6	5.6	5.2	139.12	-120.1	-216.3	379.6	370.7	8.92	42.566		
2,200.0	2,181.3	2,150.1	2,134.6	5.9	5.5	139.10	-129.0	-228.7	403.4	394.0	9.41	42.849		
2,300.0	2,279.9	2,247.2	2,230.5	6.3	5.8	139.09	-138.0	-241.1	427.1	417.2	9.91	43.099		
2,400.0	2,378.5	2,344.4	2,326.4	6.6	6.1	139.07	-147.0	-253.5	450.9	440.5	10.41	43.322		
2,500.0	2,477.2	2,441.5	2,422.3	6.9	6.4	139.06	-155.9	-265.9	474.7	463.8	10.91	43.523		
2,600.0	2,575.8	2,538.7	2,518.3	7.3	6.7	139.04	-164.9	-278.3	498.4	487.0	11.40	43.704		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3C-29H-M168 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						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	99.0	99.0	0.2	0.2	-89.95	0.0	-39.2	39.2	38.9	0.30	129.764		
200.0	200.0	199.0	199.0	0.3	0.3	-89.95	0.0	-39.2	39.2	38.6	0.65	60.231	CC, ES	
300.0	300.0	299.0	299.0	0.5	0.5	132.77	0.0	-39.2	39.8	38.8	1.00	39.777		
400.0	400.0	399.0	399.0	0.7	0.7	135.40	0.0	-39.2	41.6	40.3	1.35	30.787		
500.0	499.9	498.8	498.8	0.9	0.8	138.21	-0.8	-39.4	44.9	43.2	1.71	26.298		
600.0	599.7	598.7	598.6	1.1	1.0	139.89	-3.4	-39.8	49.6	47.5	2.07	23.992		
700.0	699.4	698.4	698.3	1.3	1.2	140.59	-7.6	-40.6	55.8	53.3	2.44	22.843		
800.0	798.9	798.1	797.8	1.5	1.4	140.55	-13.6	-41.6	63.3	60.5	2.83	22.353		
900.0	898.3	897.7	897.1	1.8	1.6	140.01	-21.2	-43.0	72.2	69.0	3.25	22.250	SF	
1,000.0	997.4	997.1	996.1	2.0	1.8	139.15	-30.6	-44.6	82.5	78.8	3.69	22.373		
1,100.0	1,096.3	1,096.4	1,094.6	2.3	2.1	138.10	-41.6	-46.5	94.2	90.0	4.16	22.625		
1,200.0	1,195.0	1,195.4	1,192.8	2.7	2.3	136.94	-54.2	-48.8	107.2	102.5	4.68	22.921		
1,300.0	1,293.6	1,294.3	1,290.6	3.0	2.6	135.32	-68.6	-51.3	120.5	115.2	5.22	23.060		
1,400.0	1,392.2	1,393.0	1,388.0	3.3	2.9	133.29	-84.5	-54.1	134.1	128.3	5.81	23.077		
1,500.0	1,490.9	1,491.4	1,484.8	3.6	3.3	130.99	-102.0	-57.2	148.1	141.7	6.43	23.030		
1,600.0	1,589.5	1,589.6	1,581.1	4.0	3.6	128.51	-121.1	-60.6	162.7	155.6	7.09	22.964		
1,700.0	1,688.1	1,687.4	1,676.6	4.3	4.0	125.92	-141.8	-64.2	178.0	170.3	7.77	22.915		
1,800.0	1,786.8	1,784.8	1,771.4	4.6	4.4	123.27	-164.0	-68.1	194.1	185.7	8.47	22.908		
1,900.0	1,885.4	1,882.4	1,866.0	4.9	4.8	120.66	-187.5	-72.3	211.1	201.9	9.19	22.973		
2,000.0	1,984.0	1,980.5	1,961.1	5.3	5.2	118.39	-211.4	-76.5	228.5	218.6	9.90	23.077		
2,100.0	2,082.6	2,076.8	2,054.4	5.6	5.7	116.49	-234.7	-80.8	246.4	235.8	10.60	23.249		
2,200.0	2,181.3	2,171.0	2,145.7	5.9	6.1	115.03	-257.3	-86.4	265.7	254.5	11.27	23.581		
2,300.0	2,279.9	2,266.1	2,237.9	6.3	6.5	113.91	-279.7	-93.4	286.5	274.6	11.93	24.008		
2,400.0	2,378.5	2,363.8	2,332.5	6.6	6.9	112.95	-302.5	-101.0	307.7	295.1	12.61	24.410		
2,500.0	2,477.2	2,461.4	2,427.0	6.9	7.4	112.11	-325.4	-108.5	329.0	315.7	13.27	24.783		
2,600.0	2,575.8	2,559.0	2,521.6	7.3	7.8	111.38	-348.3	-116.1	350.3	336.3	13.94	25.127		
2,700.0	2,674.4	2,656.6	2,616.2	7.6	8.3	110.72	-371.2	-123.7	371.6	357.0	14.60	25.447		
2,800.0	2,773.1	2,754.2	2,710.8	8.0	8.7	110.14	-394.1	-131.2	393.1	377.8	15.27	25.743		
2,900.0	2,871.7	2,851.8	2,805.4	8.3	9.2	109.62	-416.9	-138.8	414.5	398.6	15.93	26.019		
3,000.0	2,970.3	2,949.4	2,900.0	8.6	9.6	109.15	-439.8	-146.4	436.0	419.4	16.59	26.277		
3,100.0	3,069.0	3,047.0	2,994.6	9.0	10.1	108.73	-462.7	-153.9	457.5	440.2	17.25	26.517		
3,200.0	3,167.6	3,144.6	3,089.1	9.3	10.5	108.34	-485.6	-161.5	479.0	461.1	17.91	26.742		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3D-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (')	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-30.8	30.8					
100.0	100.0	99.0	99.0	0.2	0.2	-89.95	0.0	-30.8	30.8	30.5	0.30	101.958		
200.0	200.0	199.0	199.0	0.3	0.3	-89.95	0.0	-30.8	30.8	30.2	0.65	47.324 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	133.02	0.0	-30.8	31.4	30.4	1.00	31.381		
400.0	400.0	399.0	399.0	0.7	0.7	136.31	0.0	-30.8	33.2	31.9	1.35	24.589		
500.0	499.9	498.9	498.9	0.9	0.8	141.02	0.0	-30.8	36.5	34.8	1.71	21.418		
600.0	599.7	598.3	598.3	1.1	1.0	145.26	-0.6	-31.4	41.8	39.8	2.06	20.320 SF		
700.0	699.4	697.6	697.6	1.3	1.2	147.77	-2.5	-33.1	49.6	47.2	2.42	20.513		
800.0	798.9	796.9	796.8	1.5	1.4	149.03	-5.5	-35.9	59.6	56.8	2.78	21.410		
900.0	898.3	896.2	896.0	1.8	1.6	150.36	-8.9	-39.0	71.3	68.1	3.15	22.593		
1,000.0	997.4	995.3	995.0	2.0	1.7	151.87	-12.2	-42.0	84.5	80.9	3.53	23.954		
1,100.0	1,096.3	1,094.1	1,093.7	2.3	1.9	153.41	-15.5	-45.1	99.3	95.4	3.90	25.453		
1,200.0	1,195.0	1,192.8	1,192.3	2.7	2.1	154.89	-18.7	-48.1	115.5	111.2	4.28	27.015		
1,300.0	1,293.6	1,291.4	1,290.8	3.0	2.3	156.07	-22.0	-51.1	132.0	127.3	4.65	28.367		
1,400.0	1,392.2	1,390.0	1,389.3	3.3	2.5	156.99	-25.3	-54.1	148.5	143.4	5.03	29.523		
1,500.0	1,490.9	1,488.6	1,487.8	3.6	2.7	157.73	-28.6	-57.2	165.0	159.6	5.41	30.523		
1,600.0	1,589.5	1,587.2	1,586.3	4.0	2.9	158.33	-31.9	-60.2	181.6	175.8	5.78	31.395		
1,700.0	1,688.1	1,685.8	1,684.8	4.3	3.0	158.83	-35.2	-63.2	198.2	192.0	6.16	32.163		
1,800.0	1,786.8	1,784.4	1,783.3	4.6	3.2	159.25	-38.5	-66.2	214.7	208.2	6.54	32.843		
1,900.0	1,885.4	1,883.0	1,881.8	4.9	3.4	159.62	-41.8	-69.2	231.3	224.4	6.92	33.450		
2,000.0	1,984.0	1,981.6	1,980.3	5.3	3.6	159.93	-45.1	-72.3	248.0	240.7	7.29	33.995		
2,100.0	2,082.6	2,080.2	2,078.8	5.6	3.8	160.20	-48.3	-75.3	264.6	256.9	7.67	34.487		
2,200.0	2,181.3	2,178.8	2,177.3	5.9	4.0	160.45	-51.6	-78.3	281.2	273.1	8.05	34.933		
2,300.0	2,279.9	2,277.4	2,275.8	6.3	4.2	160.66	-54.9	-81.3	297.8	289.4	8.43	35.340		
2,400.0	2,378.5	2,376.0	2,374.3	6.6	4.4	160.85	-58.2	-84.4	314.4	305.6	8.80	35.711		
2,500.0	2,477.2	2,474.6	2,472.8	6.9	4.5	161.03	-61.5	-87.4	331.1	321.9	9.18	36.053		
2,600.0	2,575.8	2,573.2	2,571.3	7.3	4.7	161.18	-64.8	-90.4	347.7	338.1	9.56	36.367		
2,700.0	2,674.4	2,671.8	2,669.8	7.6	4.9	161.32	-68.1	-93.4	364.3	354.4	9.94	36.658		
2,800.0	2,773.1	2,770.4	2,768.3	8.0	5.1	161.45	-71.4	-96.5	381.0	370.7	10.32	36.927		
2,900.0	2,871.7	2,869.0	2,866.8	8.3	5.3	161.57	-74.6	-99.5	397.6	386.9	10.69	37.178		
3,000.0	2,970.3	2,967.6	2,965.3	8.6	5.5	161.68	-77.9	-102.5	414.2	403.2	11.07	37.411		
3,100.0	3,069.0	3,066.2	3,063.8	9.0	5.7	161.78	-81.2	-105.5	430.9	419.4	11.45	37.629		
3,200.0	3,167.6	3,164.8	3,162.3	9.3	5.9	161.88	-84.5	-108.6	447.5	435.7	11.83	37.834		
3,300.0	3,266.2	3,263.4	3,260.8	9.6	6.1	161.96	-87.8	-111.6	464.2	452.0	12.21	38.025		
3,400.0	3,364.9	3,362.0	3,359.3	10.0	6.2	162.04	-91.1	-114.6	480.8	468.2	12.59	38.205		
3,500.0	3,463.5	3,460.7	3,457.8	10.3	6.4	162.12	-94.4	-117.6	497.5	484.5	12.96	38.375		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3E-29H-M168 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-19.6	19.6						
100.0	100.0	99.0	99.0	0.2	0.2	-89.95	0.0	-19.6	19.6	19.3	0.30	64.882			
200.0	200.0	199.0	199.0	0.3	0.3	-89.95	0.0	-19.6	19.6	19.0	0.65	30.115 CC, ES			
300.0	300.0	299.0	299.0	0.5	0.5	133.68	0.0	-19.6	20.2	19.2	1.00	20.188			
400.0	400.0	399.0	399.0	0.7	0.7	138.58	0.0	-19.6	22.1	20.7	1.35	16.342			
500.0	499.9	499.0	499.0	0.9	0.8	143.21	-0.8	-19.5	25.3	23.6	1.70	14.829			
600.0	599.7	599.0	599.0	1.1	1.0	145.42	-3.4	-19.4	29.5	27.4	2.06	14.297			
700.0	699.4	699.1	698.9	1.3	1.2	145.91	-7.8	-19.1	34.7	32.2	2.43	14.246 SF			
800.0	798.9	799.1	798.8	1.5	1.4	145.29	-13.8	-18.7	40.7	37.9	2.82	14.446			
900.0	898.3	899.1	898.4	1.8	1.6	144.02	-21.7	-18.1	47.7	44.5	3.23	14.777			
1,000.0	997.4	999.0	997.9	2.0	1.8	142.41	-31.2	-17.5	55.6	52.0	3.67	15.169			
1,100.0	1,096.3	1,098.8	1,097.1	2.3	2.1	140.65	-42.4	-16.7	64.5	60.4	4.14	15.577			
1,200.0	1,195.0	1,198.6	1,196.0	2.7	2.3	138.78	-55.4	-15.8	74.3	69.6	4.66	15.944			
1,300.0	1,293.6	1,298.3	1,294.6	3.0	2.6	136.29	-70.1	-14.8	84.0	78.7	5.22	16.078			
1,400.0	1,392.2	1,397.9	1,392.9	3.3	2.9	133.27	-86.5	-13.7	93.6	87.8	5.84	16.038			
1,500.0	1,490.9	1,497.4	1,490.7	3.6	3.3	129.86	-104.5	-12.5	103.3	96.8	6.50	15.907			
1,600.0	1,589.5	1,596.6	1,588.0	4.0	3.6	126.17	-124.2	-11.1	113.4	106.2	7.20	15.750			
1,700.0	1,688.1	1,695.6	1,684.6	4.3	4.0	122.31	-145.5	-9.7	124.0	116.1	7.94	15.617			
1,800.0	1,786.8	1,794.4	1,780.6	4.6	4.4	118.37	-168.4	-8.1	135.3	126.6	8.70	15.552			
1,900.0	1,885.4	1,893.3	1,876.7	4.9	4.8	114.81	-191.9	-6.5	147.3	137.9	9.46	15.579			
2,000.0	1,984.0	1,992.1	1,972.7	5.3	5.3	111.79	-215.4	-4.9	159.8	149.6	10.20	15.668			
2,100.0	2,082.6	2,091.0	2,068.8	5.6	5.7	109.21	-238.9	-3.3	172.7	161.7	10.93	15.795			
2,200.0	2,181.3	2,189.9	2,164.8	5.9	6.1	107.00	-262.4	-1.7	185.8	174.2	11.65	15.946			
2,300.0	2,279.9	2,288.8	2,260.9	6.3	6.5	105.07	-285.9	-0.1	199.2	186.8	12.37	16.109			
2,400.0	2,378.5	2,387.7	2,356.9	6.6	7.0	103.39	-309.4	1.5	212.8	199.7	13.07	16.278			
2,500.0	2,477.2	2,486.6	2,453.0	6.9	7.4	101.92	-332.9	3.2	226.5	212.8	13.77	16.448			
2,600.0	2,575.8	2,585.5	2,549.0	7.3	7.9	100.61	-356.4	4.8	240.4	225.9	14.47	16.616			
2,700.0	2,674.4	2,684.4	2,645.0	7.6	8.3	99.44	-379.9	6.4	254.4	239.2	15.16	16.781			
2,800.0	2,773.1	2,783.3	2,741.1	8.0	8.7	98.40	-403.4	8.0	268.5	252.6	15.85	16.941			
2,900.0	2,871.7	2,882.2	2,837.1	8.3	9.2	97.46	-427.0	9.6	282.6	266.1	16.53	17.096			
3,000.0	2,970.3	2,981.1	2,933.2	8.6	9.6	96.61	-450.5	11.2	296.8	279.6	17.21	17.244			
3,100.0	3,069.0	3,080.0	3,029.2	9.0	10.0	95.83	-474.0	12.8	311.1	293.2	17.89	17.387			
3,200.0	3,167.6	3,178.8	3,125.3	9.3	10.5	95.13	-497.5	14.4	325.4	306.9	18.57	17.524			
3,300.0	3,266.2	3,277.7	3,221.3	9.6	10.9	94.48	-521.0	16.0	339.8	320.6	19.25	17.655			
3,400.0	3,364.9	3,376.6	3,317.4	10.0	11.4	93.89	-544.5	17.6	354.2	334.3	19.92	17.781			
3,500.0	3,463.5	3,475.5	3,413.4	10.3	11.8	93.34	-568.0	19.2	368.7	348.1	20.60	17.901			
3,600.0	3,562.1	3,574.4	3,509.4	10.6	12.2	92.84	-591.5	20.8	383.2	361.9	21.27	18.016			
3,700.0	3,660.7	3,673.3	3,605.5	11.0	12.7	92.37	-615.0	22.4	397.7	375.7	21.94	18.125			
3,800.0	3,759.4	3,772.2	3,701.5	11.3	13.1	91.93	-638.5	24.0	412.2	389.6	22.61	18.230			
3,900.0	3,858.0	3,871.1	3,797.6	11.7	13.6	91.53	-662.0	25.6	426.7	403.5	23.28	18.331			
4,000.0	3,956.6	3,970.0	3,893.6	12.0	14.0	91.15	-685.5	27.2	441.3	417.4	23.95	18.427			
4,100.0	4,055.3	4,068.9	3,989.7	12.3	14.5	90.79	-709.0	28.9	455.9	431.3	24.62	18.519			
4,200.0	4,153.9	4,167.8	4,085.7	12.7	14.9	90.46	-732.5	30.5	470.5	445.2	25.29	18.607			
4,300.0	4,252.5	4,266.7	4,181.8	13.0	15.3	90.15	-756.0	32.1	485.1	459.2	25.95	18.692			
4,400.0	4,351.2	4,365.6	4,277.8	13.3	15.8	89.85	-779.5	33.7	499.8	473.1	26.62	18.773			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3F-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-11.2	11.2					
100.0	100.0	99.0	99.0	0.2	0.2	-89.96	0.0	-11.2	11.2	10.9	0.30	37.075		
200.0	200.0	199.0	199.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.6	0.65	17.209 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	134.99	0.0	-11.2	11.8	10.8	1.00	11.797		
400.0	400.0	399.1	399.1	0.7	0.7	139.49	-0.8	-10.9	13.4	12.0	1.35	9.900		
500.0	499.9	499.2	499.1	0.9	0.9	141.28	-3.3	-10.1	15.6	13.9	1.71	9.116		
600.0	599.7	599.3	599.1	1.1	1.0	141.15	-7.4	-8.8	18.3	16.3	2.08	8.830		
700.0	699.4	699.4	699.0	1.3	1.2	139.84	-13.2	-6.9	21.7	19.2	2.46	8.799		
800.0	798.9	799.4	798.8	1.5	1.4	137.89	-20.7	-4.5	25.6	22.7	2.87	8.905		
900.0	898.3	899.5	898.4	1.8	1.7	135.67	-29.8	-1.5	30.1	26.8	3.31	9.082		
1,000.0	997.4	999.6	997.9	2.0	1.9	133.40	-40.6	2.0	35.2	31.4	3.79	9.290		
1,100.0	1,096.3	1,099.6	1,097.0	2.3	2.2	131.20	-53.0	6.0	41.0	36.7	4.32	9.506		
1,200.0	1,195.0	1,199.6	1,195.9	2.7	2.5	128.94	-67.0	10.6	47.4	42.5	4.89	9.691		
1,300.0	1,293.6	1,299.6	1,294.5	3.0	2.8	125.60	-82.7	15.7	53.5	48.0	5.52	9.695		
1,400.0	1,392.2	1,399.5	1,392.8	3.3	3.1	121.29	-100.0	21.3	59.5	53.3	6.21	9.587		
1,500.0	1,490.9	1,499.3	1,490.5	3.6	3.5	116.29	-118.9	27.4	65.7	58.8	6.95	9.456		
1,600.0	1,589.5	1,598.8	1,587.7	4.0	3.9	110.80	-139.4	34.1	72.4	64.6	7.72	9.372		
1,700.0	1,688.1	1,698.2	1,684.3	4.3	4.3	105.07	-161.4	41.2	79.8	71.3	8.50	9.390		
1,800.0	1,786.8	1,797.5	1,780.8	4.6	4.8	99.98	-184.0	48.6	88.0	78.8	9.24	9.524		
1,900.0	1,885.4	1,896.9	1,877.4	4.9	5.2	95.79	-206.5	55.9	96.8	86.9	9.96	9.725		
2,000.0	1,984.0	1,996.3	1,973.9	5.3	5.6	92.30	-229.0	63.2	106.1	95.4	10.64	9.963		
2,100.0	2,082.6	2,095.7	2,070.4	5.6	6.0	89.38	-251.6	70.5	115.6	104.3	11.32	10.217		
2,200.0	2,181.3	2,195.1	2,166.9	5.9	6.5	86.91	-274.1	77.9	125.4	113.5	11.97	10.476		
2,300.0	2,279.9	2,294.5	2,263.4	6.3	6.9	84.81	-296.7	85.2	135.4	122.8	12.62	10.733		
2,400.0	2,378.5	2,393.8	2,359.9	6.6	7.4	82.99	-319.2	92.5	145.6	132.3	13.26	10.983		
2,500.0	2,477.2	2,493.2	2,456.4	6.9	7.8	81.41	-341.8	99.8	155.9	142.0	13.89	11.225		
2,600.0	2,575.8	2,592.6	2,553.0	7.3	8.2	80.03	-364.3	107.2	166.3	151.8	14.52	11.456		
2,700.0	2,674.4	2,692.0	2,649.5	7.6	8.7	78.81	-386.9	114.5	176.8	161.6	15.14	11.676		
2,800.0	2,773.1	2,791.4	2,746.0	8.0	9.1	77.72	-409.4	121.8	187.3	171.6	15.76	11.885		
2,900.0	2,871.7	2,890.8	2,842.5	8.3	9.6	76.76	-432.0	129.2	197.9	181.5	16.38	12.084		
3,000.0	2,970.3	2,990.1	2,939.0	8.6	10.0	75.89	-454.5	136.5	208.6	191.6	17.00	12.272		
3,100.0	3,069.0	3,089.5	3,035.5	9.0	10.5	75.10	-477.0	143.8	219.3	201.7	17.61	12.451		
3,200.0	3,167.6	3,188.9	3,132.0	9.3	10.9	74.39	-499.6	151.1	230.0	211.8	18.23	12.621		
3,300.0	3,266.2	3,288.3	3,228.6	9.6	11.4	73.74	-522.1	158.5	240.8	222.0	18.84	12.782		
3,400.0	3,364.9	3,387.7	3,325.1	10.0	11.8	73.15	-544.7	165.8	251.6	232.1	19.45	12.934		
3,500.0	3,463.5	3,487.1	3,421.6	10.3	12.2	72.61	-567.2	173.1	262.4	242.3	20.06	13.079		
3,600.0	3,562.1	3,586.4	3,518.1	10.6	12.7	72.11	-589.8	180.4	273.3	252.6	20.67	13.217		
3,700.0	3,660.7	3,685.8	3,614.6	11.0	13.1	71.65	-612.3	187.8	284.1	262.8	21.28	13.348		
3,800.0	3,759.4	3,785.2	3,711.1	11.3	13.6	71.22	-634.9	195.1	295.0	273.1	21.90	13.473		
3,900.0	3,858.0	3,884.8	3,807.8	11.7	14.0	70.82	-657.5	202.4	305.9	283.4	22.51	13.591		
4,000.0	3,956.6	3,988.8	3,908.8	12.0	14.5	70.32	-680.6	211.0	316.0	292.9	23.13	13.664		
4,100.0	4,055.3	4,093.0	4,010.1	12.3	15.0	69.65	-703.1	221.4	324.7	301.0	23.73	13.685		
4,200.0	4,153.9	4,196.3	4,110.4	12.7	15.4	68.83	-724.6	233.3	332.1	307.8	24.30	13.664		
4,300.0	4,252.5	4,295.9	4,207.2	13.0	15.9	68.01	-745.1	245.3	339.1	314.2	24.85	13.642		
4,400.0	4,351.2	4,395.6	4,303.9	13.3	16.3	67.22	-765.6	257.3	346.1	320.7	25.40	13.625		
4,500.0	4,449.8	4,495.2	4,400.7	13.7	16.8	66.46	-786.1	269.3	353.2	327.3	25.95	13.614		
4,600.0	4,548.4	4,594.8	4,497.5	14.0	17.2	65.74	-806.5	281.3	360.4	333.9	26.48	13.608		
4,700.0	4,647.1	4,694.5	4,594.2	14.4	17.6	65.04	-827.0	293.4	367.6	340.6	27.02	13.606		
4,800.0	4,745.7	4,794.1	4,691.0	14.7	18.1	64.37	-847.5	305.4	374.9	347.4	27.55	13.607		
4,900.0	4,844.3	4,893.8	4,787.8	15.0	18.5	63.73	-868.0	317.4	382.2	354.2	28.08	13.611		
5,000.0	4,943.0	4,993.4	4,884.5	15.4	19.0	63.11	-888.5	329.4	389.6	361.0	28.61	13.619		
5,100.0	5,041.6	5,093.0	4,981.3	15.7	19.4	62.51	-909.0	341.4	397.0	367.9	29.13	13.628		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3F-29H-M168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,140.2	5,192.7	5,078.1	16.0	19.9	61.94	-929.5	353.4	404.5	374.8	29.65	13.641		
5,300.0	5,238.8	5,292.3	5,174.8	16.4	20.3	61.38	-950.0	365.4	412.0	381.8	30.17	13.655		
5,400.0	5,337.5	5,392.0	5,271.6	16.7	20.8	60.85	-970.5	377.4	419.5	388.8	30.69	13.670		
5,500.0	5,436.1	5,491.6	5,368.4	17.1	21.2	60.33	-991.0	389.4	427.1	395.9	31.20	13.688		
5,600.0	5,534.7	5,591.2	5,465.1	17.4	21.7	59.83	-1,011.5	401.5	434.7	403.0	31.72	13.706		
5,700.0	5,633.4	5,690.9	5,561.9	17.7	22.1	59.35	-1,032.0	413.5	442.4	410.1	32.23	13.726		
5,800.0	5,732.0	5,790.5	5,658.7	18.1	22.5	58.89	-1,052.5	425.5	450.0	417.3	32.74	13.747		
5,900.0	5,830.6	5,890.2	5,755.4	18.4	23.0	58.44	-1,073.0	437.5	457.7	424.5	33.24	13.769		
6,000.0	5,929.3	5,989.8	5,852.2	18.7	23.4	58.01	-1,093.5	449.5	465.4	431.7	33.75	13.791		
6,100.0	6,027.9	6,089.4	5,949.0	19.1	23.9	57.59	-1,114.0	461.5	473.2	438.9	34.25	13.814		
6,200.0	6,126.5	6,189.1	6,045.7	19.4	24.3	57.18	-1,134.5	473.5	481.0	446.2	34.76	13.838		
6,300.0	6,225.2	6,288.7	6,142.5	19.8	24.8	56.79	-1,155.0	485.5	488.8	453.5	35.26	13.863		
6,400.0	6,323.8	6,388.4	6,239.3	20.1	25.2	56.41	-1,175.5	497.5	496.6	460.8	35.76	13.887		
7,700.0	7,579.4	8,689.1	8,016.0	22.4	22.8	-164.55	-684.3	687.8	445.1	408.8	36.35	12.247		
7,800.0	7,650.4	8,758.5	8,016.0	22.0	22.2	-162.41	-614.9	685.3	377.9	345.1	32.87	11.498		
7,900.0	7,708.3	8,839.4	8,016.0	21.5	21.7	-159.66	-534.1	682.5	324.8	295.3	29.56	10.988		
8,000.0	7,751.3	8,929.2	8,016.0	21.0	21.1	-156.66	-444.4	679.4	287.2	260.4	26.73	10.745		
8,100.0	7,778.1	9,025.2	8,016.0	20.6	20.7	-153.99	-348.4	676.0	265.2	240.5	24.73	10.728		
8,195.6	7,787.9	9,120.1	8,016.0	20.4	20.4	-152.43	-253.6	672.7	258.5	234.6	23.88	10.825		
8,200.0	7,788.0	9,124.4	8,016.0	20.4	20.4	-152.39	-249.2	672.6	258.5	234.6	23.87	10.831		
8,300.0	7,788.0	9,224.4	8,016.0	20.2	20.2	-151.70	-149.3	669.1	260.1	235.9	24.22	10.742		
8,400.0	7,788.0	9,324.3	8,016.0	20.2	20.2	-151.03	-49.5	665.6	261.8	237.1	24.70	10.600		
8,500.0	7,788.0	9,424.3	8,016.0	20.4	20.3	-150.37	50.4	662.1	263.5	238.2	25.28	10.421		
8,600.0	7,788.0	9,524.2	8,016.0	20.7	20.6	-149.71	150.3	658.6	265.2	239.3	25.99	10.207		
8,700.0	7,788.0	9,624.1	8,016.0	21.1	21.0	-149.07	250.2	655.1	267.0	240.2	26.80	9.962		
8,800.0	7,788.0	9,724.1	8,016.0	21.7	21.6	-148.43	350.0	651.6	268.8	241.1	27.74	9.690		
8,900.0	7,788.0	9,824.0	8,016.0	22.4	22.2	-147.80	449.9	648.2	270.7	241.9	28.80	9.397		
9,000.0	7,788.0	9,924.0	8,016.0	23.3	23.0	-147.18	549.8	644.7	272.5	242.6	29.98	9.090		
9,100.0	7,788.0	10,023.9	8,016.0	24.2	23.9	-146.57	649.7	641.2	274.5	243.2	31.28	8.775		
9,200.0	7,788.0	10,123.8	8,016.0	25.2	24.9	-145.96	749.6	637.7	276.4	243.7	32.69	8.456		
9,300.0	7,788.0	10,223.8	8,016.0	26.3	26.0	-145.37	849.4	634.2	278.4	244.2	34.21	8.138		
9,400.0	7,788.0	10,323.7	8,016.0	27.4	27.1	-144.78	949.3	630.7	280.4	244.5	35.83	7.825		
9,500.0	7,788.0	10,423.7	8,016.0	28.6	28.4	-144.20	1,049.2	627.2	282.4	244.8	37.55	7.520		
9,600.0	7,788.0	10,523.6	8,016.0	29.9	29.6	-143.63	1,149.1	623.7	284.4	245.1	39.37	7.225		
9,700.0	7,788.0	10,623.5	8,016.0	31.2	30.9	-143.07	1,248.9	620.3	286.5	245.3	41.28	6.941		
9,800.0	7,788.0	10,723.5	8,016.0	32.6	32.3	-142.52	1,348.8	616.8	288.6	245.4	43.27	6.671		
9,900.0	7,788.0	10,823.4	8,016.0	34.0	33.7	-141.97	1,448.7	613.3	290.8	245.4	45.34	6.413		
10,000.0	7,788.0	10,923.3	8,016.0	35.4	35.1	-141.44	1,548.6	609.8	292.9	245.5	47.49	6.169		
10,100.0	7,788.0	11,023.3	8,016.0	36.9	36.5	-140.91	1,648.5	606.3	295.1	245.4	49.71	5.937		
10,200.0	7,788.0	11,123.2	8,016.0	38.3	38.0	-140.38	1,748.3	602.8	297.3	245.4	51.99	5.719		
10,300.0	7,788.0	11,223.2	8,016.0	39.8	39.5	-139.87	1,848.2	599.3	299.6	245.2	54.34	5.513		
10,400.0	7,788.0	11,323.1	8,016.0	41.4	41.0	-139.36	1,948.1	595.8	301.8	245.1	56.75	5.319		
10,500.0	7,788.0	11,423.0	8,016.0	42.9	42.6	-138.86	2,048.0	592.4	304.1	244.9	59.22	5.136		
10,600.0	7,788.0	11,523.0	8,016.0	44.5	44.1	-138.37	2,147.9	588.9	306.4	244.7	61.74	4.964		
10,700.0	7,788.0	11,622.9	8,016.0	46.0	45.7	-137.89	2,247.7	585.4	308.8	244.5	64.31	4.801		
10,800.0	7,788.0	11,722.9	8,016.0	47.6	47.3	-137.41	2,347.6	581.9	311.1	244.2	66.93	4.649		
10,900.0	7,788.0	11,822.8	8,016.0	49.2	48.8	-136.94	2,447.5	578.4	313.5	243.9	69.59	4.505		
11,000.0	7,788.0	11,922.7	8,016.0	50.8	50.4	-136.48	2,547.4	574.9	315.9	243.6	72.30	4.369		
11,100.0	7,788.0	12,019.2	8,016.0	52.4	52.0	-135.95	2,643.8	570.9	318.8	243.7	75.08	4.246		
11,200.0	7,788.0	12,115.3	8,016.0	54.1	53.5	-135.23	2,739.7	565.2	322.9	244.8	78.13	4.133		
11,300.0	7,788.0	12,211.1	8,016.0	55.7	55.1	-134.33	2,835.2	558.0	328.3	246.9	81.42	4.032		
11,400.0	7,788.0	12,306.7	8,016.0	57.3	56.6	-133.28	2,930.4	549.2	335.0	250.0	84.97	3.942		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3F-29H-M168 - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
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
11,500.0	7,788.0	12,403.4	8,016.0	59.0	58.2	-132.08	3,026.5	538.7	342.9	254.2	88.76	3.863	
11,600.0	7,788.0	12,502.8	8,016.0	60.6	59.8	-130.86	3,125.3	527.6	351.3	258.6	92.68	3.790	
11,700.0	7,788.0	12,602.1	8,016.0	62.3	61.4	-129.70	3,224.0	516.6	359.8	263.2	96.60	3.725	
11,800.0	7,788.0	12,701.5	8,016.0	63.9	63.1	-128.60	3,322.8	505.5	368.5	268.0	100.52	3.666	
11,900.0	7,788.0	12,800.9	8,016.0	65.6	64.7	-127.55	3,421.5	494.4	377.3	272.8	104.44	3.612	
12,000.0	7,788.0	12,900.3	8,016.0	67.3	66.3	-126.54	3,520.3	483.3	386.2	277.8	108.36	3.564	
12,100.0	7,788.0	12,999.6	8,016.0	69.0	68.0	-125.58	3,619.1	472.3	395.2	283.0	112.27	3.520	
12,200.0	7,788.0	13,099.0	8,016.0	70.6	69.6	-124.66	3,717.8	461.2	404.4	288.2	116.17	3.481	
12,300.0	7,788.0	13,198.4	8,016.0	72.3	71.3	-123.79	3,816.6	450.1	413.6	293.5	120.06	3.445	
12,400.0	7,788.0	13,298.9	8,016.0	74.0	73.0	-122.94	3,916.5	438.9	422.9	298.9	123.98	3.411	
12,500.0	7,788.0	13,405.1	8,016.0	75.7	74.8	-122.18	4,022.2	428.4	431.2	303.3	127.90	3.372	
12,600.0	7,788.0	13,511.7	8,016.0	77.4	76.6	-121.58	4,128.4	419.9	438.1	306.4	131.66	3.327	
12,700.0	7,788.0	13,618.5	8,016.0	79.1	78.4	-121.13	4,235.0	413.2	443.4	308.1	135.26	3.278	
12,800.0	7,788.0	13,725.6	8,016.0	80.8	80.2	-120.83	4,341.9	408.6	447.1	308.4	138.71	3.223	
12,900.0	7,788.0	13,832.7	8,016.0	82.5	82.0	-120.65	4,449.1	406.0	449.2	307.2	142.00	3.163	
13,000.0	7,788.0	13,940.0	8,016.0	84.2	83.9	-120.61	4,556.3	405.3	449.7	304.6	145.12	3.099	
13,100.0	7,788.0	14,043.3	8,016.0	85.9	85.6	-120.68	4,659.7	406.4	448.8	300.8	148.04	3.032	
13,200.0	7,788.0	14,143.3	8,016.0	87.6	87.3	-120.76	4,759.7	407.6	447.8	296.9	150.89	2.968	
13,300.0	7,788.0	14,243.3	8,016.0	89.3	89.1	-120.84	4,859.6	408.8	446.7	293.0	153.74	2.906	
13,400.0	7,788.0	14,343.3	8,016.0	91.0	90.8	-120.92	4,959.6	410.0	445.7	289.1	156.58	2.846	
13,500.0	7,788.0	14,443.3	8,016.0	92.7	92.5	-121.00	5,059.6	411.3	444.6	285.2	159.42	2.789	
13,600.0	7,788.0	14,543.3	8,016.0	94.4	94.2	-121.08	5,159.6	412.5	443.6	281.3	162.26	2.734	
13,700.0	7,788.0	14,643.3	8,016.0	96.1	96.0	-121.16	5,259.6	413.7	442.5	277.5	165.09	2.681	
13,800.0	7,788.0	14,743.3	8,016.0	97.9	97.7	-121.25	5,359.6	414.9	441.5	273.6	167.92	2.629	
13,900.0	7,788.0	14,843.3	8,016.0	99.6	99.4	-121.33	5,459.6	416.2	440.5	269.7	170.74	2.580	
14,000.0	7,788.0	14,943.3	8,016.0	101.3	101.1	-121.41	5,559.5	417.4	439.4	265.9	173.56	2.532	
14,100.0	7,788.0	15,043.3	8,016.0	103.0	102.9	-121.49	5,659.5	418.6	438.4	262.0	176.37	2.485	
14,200.0	7,788.0	15,143.3	8,016.0	104.7	104.6	-121.58	5,759.5	419.8	437.3	258.1	179.18	2.441	
14,300.0	7,788.0	15,243.3	8,016.0	106.5	106.3	-121.66	5,859.5	421.0	436.3	254.3	181.98	2.397	
14,400.0	7,788.0	15,343.3	8,016.0	108.2	108.0	-121.75	5,959.5	422.3	435.2	250.5	184.78	2.355	
14,500.0	7,788.0	15,443.2	8,016.0	109.9	109.8	-121.83	6,059.5	423.5	434.2	246.6	187.58	2.315	
14,600.0	7,788.0	15,543.2	8,016.0	111.6	111.5	-121.92	6,159.4	424.7	433.2	242.8	190.36	2.275	
14,700.0	7,788.0	15,643.2	8,016.0	113.4	113.2	-122.00	6,259.4	425.9	432.1	239.0	193.15	2.237	
14,800.0	7,788.0	15,743.2	8,016.0	115.1	115.0	-122.09	6,359.4	427.2	431.1	235.2	195.92	2.200	
14,900.0	7,788.0	15,843.2	8,016.0	116.8	116.7	-122.18	6,459.4	428.4	430.1	231.4	198.69	2.164	
15,000.0	7,788.0	15,943.2	8,016.0	118.5	118.4	-122.26	6,559.4	429.6	429.0	227.6	201.46	2.130	
15,100.0	7,788.0	16,043.2	8,016.0	120.3	120.2	-122.35	6,659.4	430.8	428.0	223.8	204.22	2.096	
15,200.0	7,788.0	16,143.2	8,016.0	122.0	121.9	-122.44	6,759.4	432.0	427.0	220.0	206.97	2.063	
15,300.0	7,788.0	16,243.2	8,016.0	123.7	123.7	-122.53	6,859.3	433.3	425.9	216.2	209.72	2.031	
15,400.0	7,788.0	16,343.2	8,016.0	125.5	125.4	-122.61	6,959.3	434.5	424.9	212.4	212.46	2.000	
15,500.0	7,788.0	16,443.2	8,016.0	127.2	127.1	-122.70	7,059.3	435.7	423.9	208.7	215.19	1.970	
15,600.0	7,788.0	16,543.2	8,016.0	128.9	128.9	-122.79	7,159.3	436.9	422.8	204.9	217.92	1.940	
15,700.0	7,788.0	16,643.2	8,016.0	130.7	130.6	-122.88	7,259.3	438.1	421.8	201.2	220.64	1.912	
15,800.0	7,788.0	16,743.1	8,016.0	132.4	132.3	-122.97	7,359.3	439.4	420.8	197.4	223.35	1.884	
15,900.0	7,788.0	16,843.1	8,016.0	134.1	134.1	-123.06	7,459.3	440.6	419.8	193.7	226.06	1.857	
16,000.0	7,788.0	16,943.1	8,016.0	135.9	135.8	-123.15	7,559.2	441.8	418.7	190.0	228.76	1.831	
16,047.4	7,788.0	16,990.0	8,016.0	136.7	136.6	-123.20	7,606.1	442.4	418.3	188.2	230.03	1.818 SF	
16,100.0	7,788.0	16,990.0	8,016.0	137.6	136.6	-123.20	7,606.1	442.4	421.1	190.3	230.80	1.824	
16,156.8	7,788.0	16,990.0	8,016.0	138.6	136.6	-123.20	7,606.1	442.4	431.4	199.8	231.63	1.862	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
15,700.0	7,788.0	10,603.4	7,691.5	130.7	70.4	-33.28	7,666.2	715.2	434.6	341.2	93.45	4.651						
15,800.0	7,788.0	10,585.4	7,692.0	132.4	70.0	-26.96	7,669.7	732.9	341.0	259.0	82.02	4.158						
15,900.0	7,788.0	10,565.6	7,692.6	134.1	69.5	-18.97	7,673.6	752.4	250.9	184.2	66.77	3.758						
16,000.0	7,788.0	10,546.0	7,693.1	135.9	69.1	-10.20	7,677.4	771.5	169.9	118.7	51.14	3.321						
16,100.0	7,788.0	10,526.8	7,693.6	137.6	68.6	-1.01	7,681.0	790.3	118.4	76.5	41.90	2.825						
16,127.1	7,788.0	10,521.7	7,693.7	138.1	68.5	1.49	7,682.0	795.4	115.3	73.4	41.98	2.747	CC, ES					
16,156.8	7,788.0	10,516.1	7,693.8	138.6	68.3	4.23	7,683.1	800.9	119.0	75.4	43.54	2.733	SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design										S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 22-20 (EXISTING) - ENCANA WELL -				Offset Site Error:		0.0 ft
Survey Program: 0-MWD														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)						
15,300.0	7,788.0	7,926.7	7,726.0	123.7	31.0	-90.00	7,227.3	574.0	431.7	295.0	136.67	3.159				
15,400.0	7,788.0	7,926.7	7,726.0	125.5	31.0	-90.00	7,227.3	574.0	349.1	210.7	138.41	2.522				
15,500.0	7,788.0	7,926.7	7,726.0	127.2	31.0	-90.00	7,227.3	574.0	278.2	138.0	140.15	1.985				
15,600.0	7,788.0	7,926.7	7,726.0	128.9	31.0	-90.00	7,227.3	574.0	230.0	88.1	141.90	1.621				
15,672.4	7,788.0	7,926.7	7,726.0	130.2	31.0	-90.00	7,227.3	574.0	218.4	75.2	143.16	1.525	CC, ES, SF			
15,700.0	7,788.0	7,926.7	7,726.0	130.7	31.0	-90.00	7,227.3	574.0	220.1	76.5	143.64	1.532				
15,800.0	7,788.0	7,926.7	7,726.0	132.4	31.0	-90.00	7,227.3	574.0	252.9	107.5	145.38	1.740				
15,900.0	7,788.0	7,926.7	7,726.0	134.1	31.0	-90.00	7,227.3	574.0	315.4	168.3	147.13	2.144				
16,000.0	7,788.0	7,926.7	7,726.0	135.9	31.0	-90.00	7,227.3	574.0	393.7	244.8	148.87	2.645				
16,100.0	7,788.0	7,926.7	7,726.0	137.6	31.0	-90.00	7,227.3	574.0	480.1	329.5	150.61	3.188				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 4-2-20 (EXISTING) - ENCANA WELL		Offset Site Error:		0.0 ft	
Survey Program:												0-MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)						
15,900.0	7,788.0	8,130.5	7,726.0	134.1	42.4	90.00	7,817.4	1,089.1	468.4	317.0	151.42	3.094					
16,000.0	7,788.0	8,130.5	7,726.0	135.9	42.4	90.00	7,817.4	1,089.1	396.2	243.0	153.16	2.587					
16,100.0	7,788.0	8,130.5	7,726.0	137.6	42.4	90.00	7,817.4	1,089.1	338.3	183.4	154.90	2.184					
16,156.8	7,788.0	8,130.5	7,726.0	138.6	42.4	90.00	7,817.4	1,089.1	315.0	159.1	155.89	2.021	CC, ES, SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Waste Connections 3G-29H-M168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5154.0ft (Original Well Elev)
Reference Site:	S29-T1N-R68W (Pratt/Waste Connections)	MD Reference:	WELL @ 5154.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Waste Connections 3G-29H-M168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5154.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

