



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3C-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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		S22-T2N-R68W (Jillson-East Rinn)			
Site Position:		Northing:	1,289,542.88 ft	Latitude:	40.127030
From:	Lat/Long	Easting:	3,144,231.14 ft	Longitude:	-104.984230
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.33 °

Well	Jillson-East Rinn 3C-22H-M268					
Well Position	+N/-S	0.0 ft	Northing:	1,286,200.53 ft	Latitude:	40.117908
	+E/-W	0.0 ft	Easting:	3,140,871.28 ft	Longitude:	-104.996313
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,953.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/9/2013	8.69	66.71	52,740

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
940.1	3.40	193.28	939.9	-9.8	-2.3	1.00	1.00	0.00	193.28	
6,779.4	3.40	193.28	6,769.0	-347.0	-81.9	0.00	0.00	0.00	0.00	
7,712.6	90.00	0.40	7,375.0	225.0	-85.9	10.00	9.28	17.91	167.10	
9,212.6	90.00	0.40	7,375.0	1,725.0	-75.4	0.00	0.00	0.00	0.00	Interp @ 7375.0 (Jills
9,319.3	90.00	2.00	7,375.0	1,831.6	-73.2	1.50	0.00	1.50	90.00	
10,119.3	90.00	2.00	7,375.0	2,631.2	-45.3	0.00	0.00	0.00	0.00	
10,252.6	90.00	360.00	7,375.0	2,764.5	-43.0	1.50	0.00	-1.50	-90.00	
10,452.6	90.00	360.00	7,375.0	2,964.5	-43.0	0.00	0.00	0.00	0.00	
10,504.9	90.00	358.95	7,375.0	3,016.7	-43.4	2.00	0.00	-2.00	-90.00	
15,094.7	90.00	358.95	7,375.0	7,605.8	-127.2	0.00	0.00	0.00	0.00	Jillson-East Rinn 3C-2

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3C-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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	
282.0	0.00	0.00	282.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	KOP @ 600'
700.0	1.00	193.28	700.0	-0.8	-0.2	-0.8	1.00	1.00	
800.0	2.00	193.28	800.0	-3.4	-0.8	-3.4	1.00	1.00	
900.0	3.00	193.28	899.9	-7.6	-1.8	-7.6	1.00	1.00	
940.1	3.40	193.28	939.9	-9.8	-2.3	-9.8	1.00	1.00	EOB; Inc=3.4°
1,000.0	3.40	193.28	999.7	-13.3	-3.1	-13.3	0.00	0.00	
1,100.0	3.40	193.28	1,099.5	-19.1	-4.5	-19.1	0.00	0.00	
1,200.0	3.40	193.28	1,199.3	-24.8	-5.9	-24.8	0.00	0.00	
1,300.0	3.40	193.28	1,299.2	-30.6	-7.2	-30.6	0.00	0.00	
1,400.0	3.40	193.28	1,399.0	-36.4	-8.6	-36.4	0.00	0.00	
1,500.0	3.40	193.28	1,498.8	-42.2	-9.9	-42.2	0.00	0.00	
1,600.0	3.40	193.28	1,598.6	-47.9	-11.3	-47.9	0.00	0.00	
1,700.0	3.40	193.28	1,698.5	-53.7	-12.7	-53.7	0.00	0.00	
1,800.0	3.40	193.28	1,798.3	-59.5	-14.0	-59.5	0.00	0.00	
1,900.0	3.40	193.28	1,898.1	-65.2	-15.4	-65.2	0.00	0.00	
2,000.0	3.40	193.28	1,997.9	-71.0	-16.8	-71.0	0.00	0.00	
2,100.0	3.40	193.28	2,097.8	-76.8	-18.1	-76.8	0.00	0.00	
2,200.0	3.40	193.28	2,197.6	-82.6	-19.5	-82.6	0.00	0.00	
2,300.0	3.40	193.28	2,297.4	-88.3	-20.8	-88.3	0.00	0.00	
2,400.0	3.40	193.28	2,397.2	-94.1	-22.2	-94.1	0.00	0.00	
2,500.0	3.40	193.28	2,497.1	-99.9	-23.6	-99.9	0.00	0.00	
2,600.0	3.40	193.28	2,596.9	-105.7	-24.9	-105.7	0.00	0.00	
2,700.0	3.40	193.28	2,696.7	-111.4	-26.3	-111.4	0.00	0.00	
2,800.0	3.40	193.28	2,796.5	-117.2	-27.7	-117.2	0.00	0.00	
2,900.0	3.40	193.28	2,896.4	-123.0	-29.0	-123.0	0.00	0.00	
3,000.0	3.40	193.28	2,996.2	-128.8	-30.4	-128.8	0.00	0.00	
3,100.0	3.40	193.28	3,096.0	-134.5	-31.7	-134.5	0.00	0.00	
3,200.0	3.40	193.28	3,195.8	-140.3	-33.1	-140.3	0.00	0.00	
3,300.0	3.40	193.28	3,295.6	-146.1	-34.5	-146.1	0.00	0.00	
3,400.0	3.40	193.28	3,395.5	-151.9	-35.8	-151.9	0.00	0.00	
3,500.0	3.40	193.28	3,495.3	-157.6	-37.2	-157.6	0.00	0.00	
3,600.0	3.40	193.28	3,595.1	-163.4	-38.6	-163.4	0.00	0.00	
3,700.0	3.40	193.28	3,694.9	-169.2	-39.9	-169.2	0.00	0.00	
3,800.0	3.40	193.28	3,794.8	-175.0	-41.3	-175.0	0.00	0.00	
3,900.0	3.40	193.28	3,894.6	-180.7	-42.7	-180.7	0.00	0.00	
4,000.0	3.40	193.28	3,994.4	-186.5	-44.0	-186.5	0.00	0.00	
4,100.0	3.40	193.28	4,094.2	-192.3	-45.4	-192.3	0.00	0.00	
4,200.0	3.40	193.28	4,194.1	-198.1	-46.7	-198.1	0.00	0.00	
4,300.0	3.40	193.28	4,293.9	-203.8	-48.1	-203.8	0.00	0.00	
4,357.2	3.40	193.28	4,351.0	-207.1	-48.9	-207.1	0.00	0.00	Sussex
4,400.0	3.40	193.28	4,393.7	-209.6	-49.5	-209.6	0.00	0.00	
4,500.0	3.40	193.28	4,493.5	-215.4	-50.8	-215.4	0.00	0.00	
4,600.0	3.40	193.28	4,593.4	-221.2	-52.2	-221.2	0.00	0.00	
4,700.0	3.40	193.28	4,693.2	-226.9	-53.6	-226.9	0.00	0.00	
4,800.0	3.40	193.28	4,793.0	-232.7	-54.9	-232.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3C-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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	3.40	193.28	4,892.8	-238.5	-56.3	-238.5	0.00	0.00	
4,913.2	3.40	193.28	4,906.0	-239.2	-56.5	-239.2	0.00	0.00	Shannon
5,000.0	3.40	193.28	4,992.7	-244.3	-57.6	-244.3	0.00	0.00	
5,100.0	3.40	193.28	5,092.5	-250.0	-59.0	-250.0	0.00	0.00	
5,200.0	3.40	193.28	5,192.3	-255.8	-60.4	-255.8	0.00	0.00	
5,300.0	3.40	193.28	5,292.1	-261.6	-61.7	-261.6	0.00	0.00	
5,400.0	3.40	193.28	5,392.0	-267.4	-63.1	-267.4	0.00	0.00	
5,500.0	3.40	193.28	5,491.8	-273.1	-64.5	-273.1	0.00	0.00	
5,600.0	3.40	193.28	5,591.6	-278.9	-65.8	-278.9	0.00	0.00	
5,700.0	3.40	193.28	5,691.4	-284.7	-67.2	-284.7	0.00	0.00	
5,800.0	3.40	193.28	5,791.3	-290.4	-68.5	-290.4	0.00	0.00	
5,900.0	3.40	193.28	5,891.1	-296.2	-69.9	-296.2	0.00	0.00	
6,000.0	3.40	193.28	5,990.9	-302.0	-71.3	-302.0	0.00	0.00	
6,100.0	3.40	193.28	6,090.7	-307.8	-72.6	-307.8	0.00	0.00	
6,200.0	3.40	193.28	6,190.5	-313.5	-74.0	-313.5	0.00	0.00	
6,300.0	3.40	193.28	6,290.4	-319.3	-75.4	-319.3	0.00	0.00	
6,400.0	3.40	193.28	6,390.2	-325.1	-76.7	-325.1	0.00	0.00	
6,471.9	3.40	193.28	6,462.0	-329.2	-77.7	-329.2	0.00	0.00	Teepee Buttes (*if present)
6,500.0	3.40	193.28	6,490.0	-330.9	-78.1	-330.9	0.00	0.00	
6,600.0	3.40	193.28	6,589.8	-336.6	-79.4	-336.6	0.00	0.00	
6,700.0	3.40	193.28	6,689.7	-342.4	-80.8	-342.4	0.00	0.00	
6,779.4	3.40	193.28	6,769.0	-347.0	-81.9	-347.0	0.00	0.00	Start build/turn @ 6779' MD
6,800.0	1.47	211.46	6,789.5	-347.8	-82.2	-347.8	9.99	-9.38	
6,900.0	8.77	355.48	6,889.2	-341.3	-83.4	-341.3	10.00	7.30	
7,000.0	18.75	358.16	6,986.2	-317.6	-84.6	-317.6	10.00	9.98	
7,100.0	28.75	359.02	7,077.6	-277.3	-85.5	-277.3	10.00	9.99	
7,200.0	38.75	359.45	7,160.6	-221.9	-86.2	-221.9	10.00	10.00	
7,273.7	46.12	359.67	7,215.0	-172.2	-86.6	-172.2	10.00	10.00	Sharon Springs
7,300.0	48.74	359.73	7,232.8	-152.8	-86.7	-152.8	9.99	9.99	
7,400.0	58.74	359.94	7,291.8	-72.3	-86.9	-72.3	10.00	10.00	
7,420.2	60.76	359.98	7,302.0	-54.8	-86.9	-54.8	10.01	10.01	Niobrara
7,500.0	68.74	0.10	7,336.0	17.3	-86.9	17.3	10.00	10.00	
7,600.0	78.74	0.25	7,364.0	113.2	-86.6	113.2	10.00	10.00	
7,636.8	82.43	0.30	7,370.0	149.5	-86.4	149.5	10.00	10.00	B Chalk
7,700.0	88.74	0.38	7,374.9	212.5	-86.0	212.5	10.00	10.00	
7,712.6	90.00	0.40	7,375.0	225.0	-85.9	225.0	10.01	10.01	LP @ 7375' TVD; 90°
7,800.0	90.00	0.40	7,375.0	312.5	-85.3	312.5	0.00	0.00	
7,900.0	90.00	0.40	7,375.0	412.4	-84.6	412.4	0.00	0.00	
8,000.0	90.00	0.40	7,375.0	512.4	-83.9	512.4	0.00	0.00	
8,100.0	90.00	0.40	7,375.0	612.4	-83.2	612.4	0.00	0.00	
8,200.0	90.00	0.40	7,375.0	712.4	-82.5	712.4	0.00	0.00	
8,300.0	90.00	0.40	7,375.0	812.4	-81.8	812.4	0.00	0.00	
8,400.0	90.00	0.40	7,375.0	912.4	-81.1	912.4	0.00	0.00	
8,500.0	90.00	0.40	7,375.0	1,012.4	-80.4	1,012.4	0.00	0.00	
8,600.0	90.00	0.40	7,375.0	1,112.4	-79.7	1,112.4	0.00	0.00	
8,700.0	90.00	0.40	7,375.0	1,212.4	-79.0	1,212.4	0.00	0.00	
8,800.0	90.00	0.40	7,375.0	1,312.4	-78.3	1,312.4	0.00	0.00	
8,900.0	90.00	0.40	7,375.0	1,412.4	-77.6	1,412.4	0.00	0.00	
9,000.0	90.00	0.40	7,375.0	1,512.4	-76.9	1,512.4	0.00	0.00	
9,100.0	90.00	0.40	7,375.0	1,612.4	-76.2	1,612.4	0.00	0.00	
9,200.0	90.00	0.40	7,375.0	1,712.4	-75.5	1,712.4	0.00	0.00	
9,212.6	90.00	0.40	7,375.0	1,725.0	-75.4	1,725.0	0.00	0.00	Start Turn 1.50

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3C-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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
9,300.0	90.00	1.71	7,375.0	1,812.4	-73.8	1,812.4	1.50	0.00	
9,319.3	90.00	2.00	7,375.0	1,831.6	-73.2	1,831.6	1.50	0.00	End of turn @ 9319' MD
9,400.0	90.00	2.00	7,375.0	1,912.3	-70.4	1,912.3	0.00	0.00	
9,500.0	90.00	2.00	7,375.0	2,012.3	-66.9	2,012.3	0.00	0.00	
9,600.0	90.00	2.00	7,375.0	2,112.2	-63.4	2,112.2	0.00	0.00	
9,700.0	90.00	2.00	7,375.0	2,212.2	-59.9	2,212.2	0.00	0.00	
9,800.0	90.00	2.00	7,375.0	2,312.1	-56.4	2,312.1	0.00	0.00	
9,900.0	90.00	2.00	7,375.0	2,412.0	-52.9	2,412.0	0.00	0.00	
10,000.0	90.00	2.00	7,375.0	2,512.0	-49.5	2,512.0	0.00	0.00	
10,100.0	90.00	2.00	7,375.0	2,611.9	-46.0	2,611.9	0.00	0.00	
10,119.3	90.00	2.00	7,375.0	2,631.2	-45.3	2,631.2	0.00	0.00	Start Turn -1.50
10,200.0	90.00	0.79	7,375.0	2,711.9	-43.3	2,711.9	1.50	0.00	
10,252.6	90.00	360.00	7,375.0	2,764.5	-43.0	2,764.5	1.50	0.00	End of turn @ 10,252' MD
10,300.0	90.00	360.00	7,375.0	2,811.9	-43.0	2,811.9	0.00	0.00	
10,400.0	90.00	360.00	7,375.0	2,911.9	-43.0	2,911.9	0.00	0.00	
10,452.6	90.00	360.00	7,375.0	2,964.5	-43.0	2,964.5	0.00	0.00	Start turn @ 10,452' MD
10,500.0	90.00	359.05	7,375.0	3,011.9	-43.4	3,011.9	2.00	0.00	
10,504.9	90.00	358.95	7,375.0	3,016.7	-43.4	3,016.7	2.00	0.00	End of turn @ 10,504' MD
10,600.0	90.00	358.95	7,375.0	3,111.9	-45.2	3,111.9	0.00	0.00	
10,700.0	90.00	358.95	7,375.0	3,211.8	-47.0	3,211.8	0.00	0.00	
10,800.0	90.00	358.95	7,375.0	3,311.8	-48.8	3,311.8	0.00	0.00	
10,900.0	90.00	358.95	7,375.0	3,411.8	-50.7	3,411.8	0.00	0.00	
11,000.0	90.00	358.95	7,375.0	3,511.8	-52.5	3,511.8	0.00	0.00	
11,100.0	90.00	358.95	7,375.0	3,611.8	-54.3	3,611.8	0.00	0.00	
11,200.0	90.00	358.95	7,375.0	3,711.8	-56.1	3,711.8	0.00	0.00	
11,300.0	90.00	358.95	7,375.0	3,811.7	-58.0	3,811.7	0.00	0.00	
11,400.0	90.00	358.95	7,375.0	3,911.7	-59.8	3,911.7	0.00	0.00	
11,500.0	90.00	358.95	7,375.0	4,011.7	-61.6	4,011.7	0.00	0.00	
11,600.0	90.00	358.95	7,375.0	4,111.7	-63.4	4,111.7	0.00	0.00	
11,700.0	90.00	358.95	7,375.0	4,211.7	-65.3	4,211.7	0.00	0.00	
11,800.0	90.00	358.95	7,375.0	4,311.7	-67.1	4,311.7	0.00	0.00	
11,900.0	90.00	358.95	7,375.0	4,411.6	-68.9	4,411.6	0.00	0.00	
12,000.0	90.00	358.95	7,375.0	4,511.6	-70.7	4,511.6	0.00	0.00	
12,100.0	90.00	358.95	7,375.0	4,611.6	-72.6	4,611.6	0.00	0.00	
12,200.0	90.00	358.95	7,375.0	4,711.6	-74.4	4,711.6	0.00	0.00	
12,300.0	90.00	358.95	7,375.0	4,811.6	-76.2	4,811.6	0.00	0.00	
12,400.0	90.00	358.95	7,375.0	4,911.6	-78.0	4,911.6	0.00	0.00	
12,500.0	90.00	358.95	7,375.0	5,011.5	-79.9	5,011.5	0.00	0.00	
12,600.0	90.00	358.95	7,375.0	5,111.5	-81.7	5,111.5	0.00	0.00	
12,700.0	90.00	358.95	7,375.0	5,211.5	-83.5	5,211.5	0.00	0.00	
12,800.0	90.00	358.95	7,375.0	5,311.5	-85.3	5,311.5	0.00	0.00	
12,900.0	90.00	358.95	7,375.0	5,411.5	-87.2	5,411.5	0.00	0.00	
13,000.0	90.00	358.95	7,375.0	5,511.5	-89.0	5,511.5	0.00	0.00	
13,100.0	90.00	358.95	7,375.0	5,611.4	-90.8	5,611.4	0.00	0.00	
13,200.0	90.00	358.95	7,375.0	5,711.4	-92.6	5,711.4	0.00	0.00	
13,300.0	90.00	358.95	7,375.0	5,811.4	-94.5	5,811.4	0.00	0.00	
13,400.0	90.00	358.95	7,375.0	5,911.4	-96.3	5,911.4	0.00	0.00	
13,500.0	90.00	358.95	7,375.0	6,011.4	-98.1	6,011.4	0.00	0.00	
13,600.0	90.00	358.95	7,375.0	6,111.4	-99.9	6,111.4	0.00	0.00	
13,700.0	90.00	358.95	7,375.0	6,211.4	-101.8	6,211.4	0.00	0.00	
13,800.0	90.00	358.95	7,375.0	6,311.3	-103.6	6,311.3	0.00	0.00	
13,900.0	90.00	358.95	7,375.0	6,411.3	-105.4	6,411.3	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3C-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,000.0	90.00	358.95	7,375.0	6,511.3	-107.2	6,511.3	0.00	0.00	
14,100.0	90.00	358.95	7,375.0	6,611.3	-109.1	6,611.3	0.00	0.00	
14,200.0	90.00	358.95	7,375.0	6,711.3	-110.9	6,711.3	0.00	0.00	
14,300.0	90.00	358.95	7,375.0	6,811.3	-112.7	6,811.3	0.00	0.00	
14,400.0	90.00	358.95	7,375.0	6,911.2	-114.5	6,911.2	0.00	0.00	
14,500.0	90.00	358.95	7,375.0	7,011.2	-116.4	7,011.2	0.00	0.00	
14,600.0	90.00	358.95	7,375.0	7,111.2	-118.2	7,111.2	0.00	0.00	
14,700.0	90.00	358.95	7,375.0	7,211.2	-120.0	7,211.2	0.00	0.00	
14,800.0	90.00	358.95	7,375.0	7,311.2	-121.8	7,311.2	0.00	0.00	
14,900.0	90.00	358.95	7,375.0	7,411.2	-123.7	7,411.2	0.00	0.00	
15,000.0	90.00	358.95	7,375.0	7,511.1	-125.5	7,511.1	0.00	0.00	
15,094.7	90.00	358.95	7,375.0	7,605.8	-127.2	7,605.8	0.00	0.00	TD at 15094.7

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									
Jillson-East Rinn 3C-22H - plan misses target center by 34.0ft at 15094.7ft MD (7375.0 TVD, 7605.8 N, -127.2 E) - Point	0.00	0.00	7,341.0	7,605.8	-127.2	1,293,805.51	3,140,700.87	40.138787	-104.996768
Jillson-East Rinn 3C-22H - plan misses target center by 8.5ft at 12427.0ft MD (7375.0 TVD, 4938.6 N, -78.5 E) - Point	0.00	0.00	7,375.0	4,938.7	-70.0	1,291,138.77	3,140,773.23	40.131465	-104.996563
Jillson-East Rinn 3C-22H - plan misses target center by 35.1ft at 12427.0ft MD (7375.0 TVD, 4938.6 N, -78.5 E) - Point	0.00	0.00	7,341.0	4,938.7	-70.0	1,291,138.77	3,140,773.23	40.131465	-104.996563
Interp @ 7375.0 (Jillson- - plan hits target center - Point	0.00	0.00	7,375.0	1,725.0	-75.4	1,287,925.07	3,140,786.03	40.122643	-104.996583
Jillson-East Rinn 3C-22H - plan hits target center - Point	0.00	0.00	7,375.0	7,605.8	-127.2	1,293,805.51	3,140,700.87	40.138787	-104.996768

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
282.0	282.0	Fox Hills - BASE			
4,357.2	4,351.0	Sussex			
4,913.2	4,906.0	Shannon			
6,471.9	6,462.0	Teepee Buttes (*if present)			
7,273.7	7,215.0	Sharon Springs			
7,420.2	7,302.0	Niobrara			
7,636.8	7,370.0	B Chalk			

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3C-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
600.0	600.0	0.0	0.0	KOP @ 600'
940.1	939.9	-9.8	-2.3	EOB; Inc=3.4°
6,779.4	6,769.0	-347.0	-81.9	Start build/turn @ 6779' MD
7,712.6	7,375.0	225.0	-85.9	LP @ 7375' TVD; 90°
9,212.6	7,375.0	1,725.0	-75.4	Start Turn 1.50
9,319.3	7,375.0	1,831.6	-73.2	End of turn @ 9319' MD
10,119.3	7,375.0	2,631.2	-45.3	Start Turn -1.50
10,252.6	7,375.0	2,764.5	-43.0	End of turn @ 10,252' MD
10,452.6	7,375.0	2,964.5	-43.0	Start turn @ 10,452' MD
10,504.9	7,375.0	3,016.7	-43.4	End of turn @ 10,504' MD
15,094.7	7,375.0	7,605.8	-127.2	TD at 15094.7

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S22-T2N-R68W (Jillson-East Rinn)

Jillson-East Rinn 3C-22H-M268

Hz

Plan #2

Anticollision Report

06 May, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	5/6/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	15,094.7	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S22-T2N-R68W (Jillson-East Rinn)						
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL	11,001.2	7,401.6	573.9	491.9	7.000	CC, ES
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL	11,100.0	7,401.6	582.3	498.7	6.959	SF
BLISS 41-21 (EXISTING) - KPK WELL - SURVEYS						Out of range
EARL ANDERSON 1 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON 2 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON B 1 (EXISTING) - KPK WELL - NO S						Out of range
EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV	14,403.8	7,679.6	63.0	-75.6	0.455	Level 1, CC, ES, SF
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N						Out of range
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR	15,039.3	7,473.1	813.8	665.4	5.482	CC, ES
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR	15,094.7	7,472.6	815.7	666.3	5.459	SF
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR	12,536.6	7,893.4	645.9	513.0	4.862	CC, ES
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR	12,600.0	7,894.6	649.0	515.0	4.845	SF
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N	13,424.0	7,286.0	310.9	191.6	2.606	CC, ES, SF
HALEY 1-22 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
Haley 31-22 - DD - Plan #1						Out of range
Haley 4-2-22 - DD - Plan #1						Out of range
Haley 8-4-22 - DD - Plan #1						Out of range
HOPPER 23-15 (EXISTING) - KERR-MCGEE WELL - SU						Out of range
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,389.2	7,660.1	514.7	478.7	14.284	CC
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,400.0	7,660.2	514.8	478.6	14.228	ES
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,500.0	7,661.4	526.5	488.9	13.995	SF
JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO	11,678.7	7,293.8	178.2	89.1	2.000	CC, ES, SF
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV						Out of range
JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO	10,216.2	7,314.8	56.3	-7.6	0.880	Level 1, CC, ES, SF
JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO	7,790.2	7,361.6	52.7	25.1	1.911	CC, ES, SF
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE	5,245.1	5,378.8	617.4	589.7	22.289	CC
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE	7,158.5	7,262.9	620.9	588.6	19.240	ES
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE	7,200.0	7,295.9	621.4	589.0	19.178	SF
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	600.0	580.0	270.3	268.2	132.675	CC, ES
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	5,100.0	5,039.0	518.0	500.3	29.244	SF
JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N						Out of range
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	162.1	174.1	20.1	19.6	38.684	CC
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	200.0	212.0	20.1	19.5	30.862	ES
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	15,094.7	15,182.7	392.0	125.2	1.469	Level 3, SF
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3	262.1	274.1	10.1	9.2	11.578	CC
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3	300.0	312.0	10.1	9.1	10.056	ES
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3	15,094.7	15,316.6	294.8	102.7	1.534	SF
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	463.4	472.4	10.1	8.5	6.426	CC
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	600.0	609.0	10.3	8.2	5.034	ES
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	15,094.7	15,278.2	274.6	73.8	1.367	Level 3, SF
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1	263.4	272.4	19.9	19.0	22.861	CC
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1	300.0	309.0	19.9	18.9	19.932	ES
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1	15,094.7	14,711.4	554.5	355.8	2.791	SF
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	263.4	272.4	29.9	29.1	34.449	CC

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S22-T2N-R68W (Jillson-East Rinn)						
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	300.0	309.0	29.9	28.9	30.036	ES
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	15,094.7	14,721.6	712.3	482.4	3.097	SF
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2	10,276.3	10,422.1	820.1	714.3	7.745	CC
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2	15,094.7	15,238.3	904.0	631.5	3.318	ES, SF
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3						Out of range
Jillson-East Rinn 3I-22H-N268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3J-22H-N268 - Hz - Plan #1						Out of range
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N	9,106.9	7,329.0	160.6	115.1	3.527	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL - NO SUR													Offset Site Error:	0.0 ft
Survey Program: 1500-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,375.0	7,401.6	7,299.0	50.9	19.4	-90.00	3,502.5	-626.3	982.4	913.9	68.46	14.349		
10,300.0	7,375.0	7,401.6	7,299.0	52.6	19.4	-90.00	3,502.5	-626.3	904.1	834.0	70.10	12.897		
10,400.0	7,375.0	7,401.6	7,299.0	54.3	19.4	-90.00	3,502.5	-626.3	830.2	758.4	71.80	11.563		
10,500.0	7,375.0	7,401.6	7,299.0	56.0	19.4	-90.00	3,502.5	-626.3	762.0	688.6	73.41	10.379		
10,600.0	7,375.0	7,401.6	7,299.0	57.8	19.4	-90.00	3,502.5	-626.3	700.3	625.1	75.11	9.323		
10,700.0	7,375.0	7,401.6	7,299.0	59.5	19.4	-90.00	3,502.5	-626.3	648.2	571.3	76.82	8.437		
10,800.0	7,375.0	7,401.6	7,299.0	61.2	19.4	-90.00	3,502.5	-626.3	608.2	529.6	78.53	7.744		
10,900.0	7,375.0	7,401.6	7,299.0	62.9	19.4	-90.00	3,502.5	-626.3	582.8	502.5	80.25	7.262		
11,000.0	7,375.0	7,401.6	7,299.0	64.6	19.4	-90.00	3,502.5	-626.3	573.9	491.9	81.97	7.002		
11,001.2	7,375.0	7,401.6	7,299.0	64.6	19.4	-90.00	3,502.5	-626.3	573.9	491.9	81.99	7.000 CC, ES		
11,100.0	7,375.0	7,401.6	7,299.0	66.3	19.4	-90.00	3,502.5	-626.3	582.3	498.7	83.69	6.959 SF		
11,200.0	7,375.0	7,401.6	7,299.0	68.1	19.4	-90.00	3,502.5	-626.3	607.4	521.9	85.41	7.111		
11,300.0	7,375.0	7,401.6	7,299.0	69.8	19.4	-90.00	3,502.5	-626.3	647.0	559.9	87.13	7.426		
11,400.0	7,375.0	7,401.6	7,299.0	71.5	19.4	-90.00	3,502.5	-626.3	698.8	610.0	88.86	7.865		
11,500.0	7,375.0	7,401.6	7,299.0	73.2	19.4	-90.00	3,502.5	-626.3	760.4	669.8	90.58	8.394		
11,600.0	7,375.0	7,401.6	7,299.0	75.0	19.4	-90.00	3,502.5	-626.3	829.4	737.1	92.31	8.985		
11,700.0	7,375.0	7,401.6	7,299.0	76.7	19.4	-90.00	3,502.5	-626.3	904.2	810.2	94.04	9.616		
11,800.0	7,375.0	7,401.6	7,299.0	78.4	19.4	-90.00	3,502.5	-626.3	983.6	887.8	95.77	10.270		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 106-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,500.0	7,375.0	7,679.8	7,297.9	107.9	37.0	90.49	6,916.2	-51.6	906.0	783.2	122.85	7.375	
13,600.0	7,375.0	7,679.8	7,297.9	109.7	37.0	90.47	6,916.2	-51.6	806.3	681.7	124.59	6.472	
13,700.0	7,375.0	7,679.7	7,297.9	111.4	37.0	90.45	6,916.2	-51.6	706.6	580.3	126.33	5.593	
13,800.0	7,375.0	7,679.7	7,297.9	113.2	37.0	90.43	6,916.2	-51.6	607.1	479.0	128.07	4.740	
13,900.0	7,375.0	7,679.7	7,297.9	114.9	37.0	90.41	6,916.2	-51.6	507.7	377.9	129.81	3.911	
14,000.0	7,375.0	7,679.7	7,297.8	116.7	37.0	90.39	6,916.2	-51.6	408.7	277.1	131.56	3.107	
14,100.0	7,375.0	7,679.7	7,297.8	118.4	37.0	90.38	6,916.2	-51.6	310.3	177.0	133.30	2.328	
14,200.0	7,375.0	7,679.6	7,297.8	120.1	37.0	90.36	6,916.2	-51.6	213.3	78.3	135.04	1.580	
14,300.0	7,375.0	7,679.6	7,297.8	121.9	37.0	90.34	6,916.2	-51.6	121.4	-15.3	136.79	0.888	Level 1
14,400.0	7,375.0	7,679.6	7,297.8	123.6	37.0	90.33	6,916.2	-51.6	63.2	-75.4	138.53	0.456	Level 1
14,403.8	7,375.0	7,679.6	7,297.8	123.7	37.0	90.33	6,916.2	-51.6	63.0	-75.6	138.60	0.455	Level 1, CC, ES, SF
14,500.0	7,375.0	7,679.6	7,297.7	125.4	37.0	90.31	6,916.2	-51.6	115.0	-25.3	140.28	0.820	Level 1
14,600.0	7,375.0	7,679.6	7,297.7	127.1	37.0	90.29	6,916.2	-51.6	206.1	64.1	142.02	1.451	Level 3
14,700.0	7,375.0	7,679.5	7,297.7	128.9	37.0	90.28	6,916.2	-51.6	302.8	159.1	143.77	2.106	
14,800.0	7,375.0	7,679.5	7,297.7	130.6	37.0	90.26	6,916.2	-51.6	401.2	255.7	145.51	2.757	
14,900.0	7,375.0	7,679.5	7,297.7	132.4	37.0	90.25	6,916.2	-51.6	500.2	352.9	147.26	3.397	
15,000.0	7,375.0	7,679.5	7,297.7	134.1	37.0	90.23	6,916.2	-51.6	599.5	450.5	149.00	4.024	
15,094.7	7,375.0	7,679.5	7,297.6	135.8	37.0	90.22	6,916.2	-51.6	693.8	543.1	150.66	4.605	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 106-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
14,500.0	7,375.0	7,478.1	7,322.6	125.4	23.6	91.77	7,565.2	687.1	976.3	837.2	139.05	7.021	
14,600.0	7,375.0	7,477.2	7,321.7	127.1	23.6	91.71	7,565.2	687.1	924.8	784.0	140.79	6.569	
14,700.0	7,375.0	7,476.3	7,320.8	128.9	23.6	91.65	7,565.2	687.2	881.7	739.2	142.54	6.186	
14,800.0	7,375.0	7,475.4	7,319.9	130.6	23.6	91.58	7,565.2	687.2	848.3	704.0	144.29	5.879	
14,900.0	7,375.0	7,474.5	7,318.9	132.4	23.6	91.52	7,565.3	687.2	825.7	679.6	146.03	5.654	
15,000.0	7,375.0	7,473.5	7,318.0	134.1	23.6	91.45	7,565.3	687.2	814.8	667.0	147.78	5.513	
15,039.3	7,375.0	7,473.1	7,317.6	134.8	23.6	91.42	7,565.3	687.2	813.8	665.4	148.47	5.482 CC, ES	
15,094.7	7,375.0	7,472.6	7,317.0	135.8	23.6	91.38	7,565.3	687.3	815.7	666.3	149.43	5.459 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 136-Geolink 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)						
11,800.0	7,375.0	7,878.4	7,284.9	78.4	47.0	88.89	5,059.6	565.3	979.6	859.5	120.04	8.160		
11,900.0	7,375.0	7,880.5	7,287.0	80.1	47.0	89.08	5,059.6	565.3	906.8	785.0	121.78	7.446		
12,000.0	7,375.0	7,882.6	7,289.1	81.9	47.0	89.27	5,059.7	565.3	839.6	716.1	123.52	6.798		
12,100.0	7,375.0	7,884.0	7,290.5	83.6	47.0	89.39	5,059.7	565.3	779.6	654.3	125.25	6.224		
12,200.0	7,375.0	7,886.6	7,293.2	85.3	47.0	89.62	5,059.8	565.3	728.3	601.3	126.99	5.735		
12,300.0	7,375.0	7,888.6	7,295.2	87.1	47.0	89.80	5,059.8	565.3	687.8	559.1	128.73	5.343		
12,400.0	7,375.0	7,890.6	7,297.2	88.8	47.0	89.98	5,059.8	565.3	660.2	529.7	130.47	5.060		
12,500.0	7,375.0	7,892.6	7,299.2	90.6	47.0	90.16	5,059.9	565.3	646.9	514.7	132.21	4.893		
12,536.6	7,375.0	7,893.4	7,299.9	91.2	47.0	90.22	5,059.9	565.3	645.9	513.0	132.84	4.862 CC, ES		
12,600.0	7,375.0	7,894.6	7,301.2	92.3	47.0	90.33	5,059.9	565.2	649.0	515.0	133.94	4.845 SF		
12,700.0	7,375.0	7,896.6	7,303.1	94.0	47.0	90.51	5,060.0	565.2	666.2	530.5	135.68	4.910		
12,800.0	7,375.0	7,898.6	7,305.1	95.8	47.0	90.68	5,060.0	565.2	697.5	560.1	137.42	5.076		
12,900.0	7,375.0	7,900.6	7,307.1	97.5	47.0	90.86	5,060.0	565.2	741.1	601.9	139.15	5.326		
13,000.0	7,375.0	7,902.6	7,309.1	99.2	47.0	91.04	5,060.1	565.2	794.9	654.0	140.89	5.642		
13,100.0	7,375.0	7,904.5	7,311.1	101.0	47.0	91.21	5,060.1	565.2	857.0	714.4	142.62	6.009		
13,200.0	7,375.0	7,906.5	7,313.0	102.7	47.0	91.39	5,060.2	565.2	925.8	781.4	144.35	6.414		
13,300.0	7,375.0	7,908.5	7,315.0	104.5	47.0	91.56	5,060.2	565.2	999.9	853.8	146.08	6.845		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 8264-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
12,500.0	7,375.0	7,286.0	7,286.0	90.6	12.7	90.00	5,941.1	214.2	974.9	871.7	103.27	9.441		
12,600.0	7,375.0	7,286.0	7,286.0	92.3	12.7	90.00	5,941.1	214.2	880.7	775.7	105.00	8.388		
12,700.0	7,375.0	7,286.0	7,286.0	94.0	12.7	90.00	5,941.1	214.2	788.0	681.2	106.74	7.382		
12,800.0	7,375.0	7,286.0	7,286.0	95.8	12.7	90.00	5,941.1	214.2	697.2	588.7	108.48	6.427		
12,900.0	7,375.0	7,286.0	7,286.0	97.5	12.7	90.00	5,941.1	214.2	609.3	499.1	110.22	5.528		
13,000.0	7,375.0	7,286.0	7,286.0	99.2	12.7	90.00	5,941.1	214.2	525.8	413.9	111.96	4.697		
13,100.0	7,375.0	7,286.0	7,286.0	101.0	12.7	90.00	5,941.1	214.2	449.1	335.4	113.70	3.950		
13,200.0	7,375.0	7,286.0	7,286.0	102.7	12.7	90.00	5,941.1	214.2	383.2	267.8	115.44	3.320		
13,300.0	7,375.0	7,286.0	7,286.0	104.5	12.7	90.00	5,941.1	214.2	334.8	217.6	117.18	2.857		
13,400.0	7,375.0	7,286.0	7,286.0	106.2	12.7	90.00	5,941.1	214.2	311.9	193.0	118.92	2.623		
13,424.0	7,375.0	7,286.0	7,286.0	106.6	12.7	90.00	5,941.1	214.2	310.9	191.6	119.34	2.606 CC, ES, SF		
13,500.0	7,375.0	7,286.0	7,286.0	107.9	12.7	90.00	5,941.1	214.2	320.1	199.4	120.66	2.653		
13,600.0	7,375.0	7,286.0	7,286.0	109.7	12.7	90.00	5,941.1	214.2	357.3	234.9	122.40	2.919		
13,700.0	7,375.0	7,286.0	7,286.0	111.4	12.7	90.00	5,941.1	214.2	415.8	291.6	124.14	3.349		
13,800.0	7,375.0	7,286.0	7,286.0	113.2	12.7	90.00	5,941.1	214.2	487.9	362.0	125.89	3.876		
13,900.0	7,375.0	7,286.0	7,286.0	114.9	12.7	90.00	5,941.1	214.2	568.6	440.9	127.63	4.455		
14,000.0	7,375.0	7,286.0	7,286.0	116.7	12.7	90.00	5,941.1	214.2	654.6	525.2	129.37	5.060		
14,100.0	7,375.0	7,286.0	7,286.0	118.4	12.7	90.00	5,941.1	214.2	744.1	613.0	131.12	5.675		
14,200.0	7,375.0	7,286.0	7,286.0	120.1	12.7	90.00	5,941.1	214.2	836.0	703.1	132.86	6.292		
14,300.0	7,375.0	7,286.0	7,286.0	121.9	12.7	90.00	5,941.1	214.2	929.5	794.9	134.60	6.906		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 73-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
2,000.0	1,997.9	2,264.1	2,189.7	3.7	9.9	-159.55	739.5	528.2	992.7	979.7	13.01	76.275		
2,100.0	2,097.8	2,339.7	2,260.4	3.9	10.4	-161.03	742.6	501.6	981.6	967.9	13.71	71.596		
2,200.0	2,197.6	2,416.2	2,332.2	4.1	10.9	-162.55	747.1	475.6	973.6	959.2	14.43	67.480		
2,300.0	2,297.4	2,509.0	2,418.6	4.3	11.6	-164.53	754.4	442.8	967.7	952.4	15.31	63.205		
2,400.0	2,397.2	2,602.5	2,504.9	4.5	12.3	-166.67	762.3	407.8	962.9	946.7	16.23	59.319		
2,500.0	2,497.1	2,706.0	2,600.1	4.7	13.1	-169.11	771.7	368.2	959.7	942.4	17.25	55.640		
2,600.0	2,596.9	2,794.0	2,681.0	4.9	13.7	-171.21	778.5	334.0	956.8	938.7	18.11	52.827		
2,700.0	2,696.7	2,895.8	2,775.4	5.1	14.4	-173.51	786.2	296.6	956.2	937.1	19.05	50.200		
2,800.0	2,796.5	3,002.1	2,874.5	5.3	15.1	-175.80	791.9	258.8	955.3	935.4	19.95	47.881		
2,895.2	2,891.6	3,096.1	2,962.5	5.5	15.8	-177.77	795.7	225.9	954.8	934.0	20.77	45.963		
2,900.0	2,896.3	3,099.6	2,965.7	5.5	15.8	-177.85	795.8	224.6	954.8	934.0	20.81	45.889		
3,000.0	2,996.2	3,172.0	3,033.1	5.7	16.3	-179.43	799.8	198.5	956.6	935.1	21.49	44.504		
3,100.0	3,096.0	3,242.9	3,098.9	5.9	16.8	-178.99	805.3	172.7	961.9	939.7	22.17	43.380		
3,200.0	3,195.8	3,337.3	3,186.3	6.1	17.5	-176.87	814.1	137.9	969.9	946.9	23.01	42.146		
3,300.0	3,295.6	3,432.7	3,274.2	6.3	18.2	-174.71	822.6	101.8	978.9	955.0	23.86	41.031		
3,400.0	3,395.5	3,512.0	3,346.9	6.5	18.8	-172.91	830.1	71.2	989.7	965.2	24.58	40.270		
7,600.0	7,364.0	7,640.8	7,363.9	13.5	32.6	-71.82	905.0	-595.6	941.4	914.6	26.82	35.108		
7,700.0	7,374.9	7,652.3	7,375.4	14.1	32.6	-86.78	905.1	-595.8	860.1	831.8	28.32	30.367		
7,800.0	7,375.0	7,653.5	7,376.6	14.9	32.6	-88.59	905.1	-595.8	782.3	753.2	29.07	26.913		
7,900.0	7,375.0	7,654.6	7,377.7	15.8	32.6	-88.71	905.1	-595.8	710.1	680.1	29.99	23.675		
8,000.0	7,375.0	7,655.7	7,378.8	16.8	32.6	-88.83	905.1	-595.8	645.3	614.2	31.05	20.783		
8,100.0	7,375.0	7,656.8	7,379.9	18.0	32.6	-88.96	905.1	-595.8	590.4	558.2	32.21	18.327		
8,200.0	7,375.0	7,658.0	7,381.0	19.3	32.6	-89.08	905.2	-595.8	548.4	514.9	33.47	16.385		
8,300.0	7,375.0	7,659.1	7,382.2	20.6	32.6	-89.21	905.2	-595.9	522.4	487.6	34.80	15.012		
8,389.2	7,375.0	7,660.1	7,383.2	21.8	32.6	-89.32	905.2	-595.9	514.7	478.7	36.03	14.284 CC		
8,400.0	7,375.0	7,660.2	7,383.3	22.0	32.6	-89.33	905.2	-595.9	514.8	478.6	36.19	14.228 ES		
8,500.0	7,375.0	7,661.4	7,384.5	23.4	32.6	-89.46	905.2	-595.9	526.5	488.9	37.62	13.995 SF		
8,600.0	7,375.0	7,662.5	7,385.6	24.9	32.6	-89.59	905.2	-595.9	556.2	517.1	39.10	14.225		
8,700.0	7,375.0	7,663.7	7,386.8	26.4	32.6	-89.72	905.2	-595.9	601.3	560.7	40.61	14.806		
8,800.0	7,375.0	7,664.9	7,387.9	27.9	32.6	-89.85	905.2	-595.9	658.6	616.4	42.15	15.624		
8,900.0	7,375.0	7,666.0	7,389.1	29.5	32.6	-89.98	905.3	-595.9	725.2	681.4	43.71	16.589		
9,000.0	7,375.0	7,667.2	7,390.3	31.1	32.6	-90.11	905.3	-596.0	798.7	753.5	45.30	17.634		
9,100.0	7,375.0	7,668.4	7,391.5	32.7	32.6	-90.25	905.3	-596.0	877.6	830.7	46.90	18.713		
9,200.0	7,375.0	7,669.6	7,392.7	34.3	32.6	-90.38	905.3	-596.0	960.4	911.8	48.51	19.796		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,700.0	7,375.0	7,299.8	7,297.9	59.5	12.9	-91.58	4,187.1	-243.0	994.8	922.6	72.20	13.779		
10,800.0	7,375.0	7,299.2	7,297.3	61.2	12.9	-91.38	4,187.1	-243.0	896.6	822.7	73.92	12.130		
10,900.0	7,375.0	7,298.5	7,296.7	62.9	12.9	-91.18	4,187.1	-243.0	798.8	723.2	75.64	10.562		
11,000.0	7,375.0	7,297.9	7,296.1	64.6	12.9	-90.98	4,187.1	-243.0	701.7	624.4	77.36	9.071		
11,100.0	7,375.0	7,297.3	7,295.4	66.3	12.9	-90.78	4,187.1	-243.0	605.5	526.5	79.08	7.657		
11,200.0	7,375.0	7,296.7	7,294.8	68.1	12.9	-90.59	4,187.1	-243.0	510.8	430.0	80.80	6.322		
11,300.0	7,375.0	7,296.1	7,294.2	69.8	12.9	-90.39	4,187.1	-243.0	418.5	336.0	82.53	5.072		
11,400.0	7,375.0	7,295.5	7,293.6	71.5	12.9	-90.20	4,187.1	-243.0	330.8	246.6	84.25	3.926		
11,500.0	7,375.0	7,294.9	7,293.0	73.2	12.9	-90.00	4,187.1	-243.0	252.4	166.4	85.98	2.935		
11,600.0	7,375.0	7,294.3	7,292.4	75.0	12.9	-89.81	4,187.1	-243.0	194.8	107.1	87.71	2.221		
11,678.7	7,375.0	7,293.8	7,291.9	76.3	12.9	-89.66	4,187.1	-243.0	178.2	89.1	89.07	2.000	CC, ES, SF	
11,700.0	7,375.0	7,293.7	7,291.8	76.7	12.9	-89.62	4,187.1	-243.0	179.4	90.0	89.43	2.006		
11,800.0	7,375.0	7,293.1	7,291.2	78.4	12.9	-89.43	4,187.2	-243.0	215.5	124.4	91.16	2.364		
11,900.0	7,375.0	7,292.5	7,290.6	80.1	12.9	-89.24	4,187.2	-243.0	284.1	191.2	92.89	3.058		
12,000.0	7,375.0	7,291.9	7,290.0	81.9	12.9	-89.05	4,187.2	-243.0	367.4	272.7	94.61	3.883		
12,100.0	7,375.0	7,291.3	7,289.5	83.6	12.9	-88.86	4,187.2	-243.0	457.4	361.0	96.34	4.748		
12,200.0	7,375.0	7,290.7	7,288.9	85.3	12.9	-88.68	4,187.2	-243.0	550.9	452.8	98.07	5.617		
12,300.0	7,375.0	7,290.2	7,288.3	87.1	12.9	-88.49	4,187.2	-243.0	646.3	546.5	99.79	6.476		
12,400.0	7,375.0	7,289.6	7,287.7	88.8	12.9	-88.31	4,187.2	-243.0	742.9	641.4	101.52	7.318		
12,500.0	7,375.0	7,289.0	7,287.2	90.6	12.9	-88.13	4,187.2	-243.0	840.4	737.1	103.24	8.140		
12,600.0	7,375.0	7,288.5	7,286.6	92.3	12.9	-87.95	4,187.2	-243.0	938.3	833.3	104.97	8.939		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
9,300.0	7,375.0	7,304.9	7,302.9	35.9	12.9	-79.24	2,728.6	-99.4	916.7	868.7	47.93	19.123		
9,400.0	7,375.0	7,306.0	7,304.0	37.6	12.9	-81.15	2,728.6	-99.4	816.9	767.1	49.77	16.414		
9,500.0	7,375.0	7,307.1	7,305.1	39.2	12.9	-82.22	2,728.7	-99.4	717.2	665.7	51.52	13.921		
9,600.0	7,375.0	7,308.2	7,306.2	40.9	12.9	-83.30	2,728.7	-99.4	617.6	564.3	53.26	11.594		
9,700.0	7,375.0	7,309.3	7,307.3	42.5	12.9	-84.37	2,728.7	-99.4	518.1	463.1	55.01	9.417		
9,800.0	7,375.0	7,310.4	7,308.4	44.2	12.9	-85.44	2,728.7	-99.4	418.8	362.1	56.76	7.380		
9,900.0	7,375.0	7,311.4	7,309.5	45.9	12.9	-86.51	2,728.7	-99.4	320.1	261.6	58.50	5.472		
10,000.0	7,375.0	7,312.5	7,310.6	47.6	12.9	-87.58	2,728.7	-99.4	222.5	162.2	60.23	3.694		
10,100.0	7,375.0	7,313.6	7,311.6	49.3	12.9	-88.64	2,728.7	-99.4	128.5	66.5	61.95	2.074		
10,200.0	7,375.0	7,314.6	7,312.7	50.9	12.9	-89.69	2,728.7	-99.4	58.6	-5.1	63.69	0.920 Level 1		
10,216.2	7,375.0	7,314.8	7,312.9	51.2	12.9	-89.87	2,728.7	-99.4	56.3	-7.6	63.97	0.880 Level 1, CC, ES, SF		
10,300.0	7,375.0	7,315.7	7,313.8	52.6	12.9	-90.77	2,728.7	-99.4	100.5	35.1	65.40	1.536		
10,400.0	7,375.0	7,316.8	7,314.8	54.3	12.9	-91.85	2,728.8	-99.4	191.6	124.5	67.08	2.857		
10,500.0	7,375.0	7,317.8	7,315.9	56.0	12.9	-92.71	2,728.8	-99.5	288.6	219.9	68.75	4.198		
10,600.0	7,375.0	7,318.9	7,316.9	57.8	12.9	-93.67	2,728.8	-99.5	386.9	316.5	70.40	5.496		
10,700.0	7,375.0	7,319.9	7,318.0	59.5	12.9	-94.64	2,728.8	-99.5	485.9	413.9	72.03	6.746		
10,800.0	7,375.0	7,321.0	7,319.0	61.2	12.9	-95.61	2,728.8	-99.5	585.2	511.6	73.64	7.948		
10,900.0	7,375.0	7,322.0	7,320.1	62.9	12.9	-96.57	2,728.8	-99.5	684.8	609.5	75.22	9.103		
11,000.0	7,375.0	7,323.0	7,321.1	64.6	12.9	-97.52	2,728.8	-99.5	784.4	707.6	76.79	10.215		
11,100.0	7,375.0	7,324.1	7,322.1	66.3	12.9	-98.46	2,728.8	-99.5	884.1	805.8	78.33	11.287		
11,200.0	7,375.0	7,325.1	7,323.1	68.1	12.9	-99.40	2,728.8	-99.5	983.9	904.1	79.85	12.322		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	9.37	259.4	42.8	263.4					
100.0	100.0	87.2	87.2	0.2	0.2	9.62	258.7	43.8	262.4	262.1	0.31	848.375		
200.0	200.0	186.8	186.8	0.3	0.3	10.26	256.9	46.5	261.1	260.5	0.66	393.727		
300.0	300.0	285.9	285.8	0.5	0.5	10.79	255.6	48.7	260.3	259.2	1.01	256.946		
400.0	400.0	385.2	385.1	0.7	0.7	11.13	254.8	50.1	259.7	258.3	1.36	190.819		
500.0	500.0	484.4	484.3	0.8	0.9	11.32	254.4	50.9	259.4	257.7	1.71	151.942		
600.0	600.0	584.9	584.8	1.0	1.0	11.40	254.2	51.2	259.3	257.2	2.06	126.126		
620.8	620.8	605.9	605.8	1.1	1.1	178.12	254.1	51.2	259.2	257.1	2.13	121.651		
700.0	700.0	685.2	685.1	1.2	1.2	178.10	253.8	51.0	259.8	257.3	2.41	108.001		
800.0	800.0	784.8	784.7	1.4	1.4	178.01	253.5	50.5	262.0	259.3	2.75	95.261		
900.0	899.9	884.9	884.8	1.6	1.6	177.92	253.4	49.9	266.1	263.0	3.10	85.932		
1,000.0	999.7	984.0	983.9	1.7	1.7	177.78	253.3	49.0	271.6	268.2	3.44	78.935		
1,100.0	1,099.5	1,084.2	1,084.1	1.9	1.9	177.58	253.4	47.8	277.5	273.7	3.79	73.229		
1,200.0	1,199.3	1,183.8	1,183.7	2.1	2.1	177.37	253.5	46.5	283.2	279.1	4.14	68.470		
1,300.0	1,299.2	1,283.0	1,282.9	2.3	2.2	177.11	253.8	45.0	289.1	284.6	4.48	64.491		
1,400.0	1,399.0	1,383.1	1,382.9	2.5	2.4	176.86	254.1	43.4	295.1	290.3	4.83	61.079		
1,500.0	1,498.8	1,482.9	1,482.7	2.7	2.6	176.62	254.4	41.8	301.1	295.9	5.18	58.113		
1,600.0	1,598.6	1,582.7	1,582.6	2.9	2.8	176.40	254.7	40.3	307.0	301.5	5.53	55.522		
1,700.0	1,698.5	1,682.7	1,682.5	3.1	2.9	176.20	255.0	38.9	313.0	307.1	5.88	53.232		
1,800.0	1,798.3	1,782.2	1,782.0	3.3	3.1	176.02	255.2	37.5	318.9	312.7	6.23	51.204		
1,900.0	1,898.1	1,883.2	1,882.9	3.5	3.3	175.86	255.4	36.2	324.8	318.2	6.58	49.363		
2,000.0	1,997.9	1,983.9	1,983.6	3.7	3.5	175.80	255.1	35.4	330.3	323.4	6.93	47.662		
2,100.0	2,097.8	2,084.0	2,083.8	3.9	3.6	175.80	254.6	34.9	335.7	328.4	7.28	46.108		
2,200.0	2,197.6	2,183.9	2,183.7	4.1	3.8	175.80	254.1	34.3	341.0	333.3	7.63	44.692		
2,300.0	2,297.4	2,283.2	2,283.0	4.3	4.0	175.74	253.7	33.5	346.3	338.3	7.98	43.413		
2,400.0	2,397.2	2,383.1	2,382.9	4.5	4.2	175.64	253.4	32.4	351.8	343.5	8.33	42.247		
2,500.0	2,497.1	2,483.7	2,483.5	4.7	4.3	175.51	253.1	31.0	357.2	348.5	8.68	41.155		
2,600.0	2,596.9	2,583.6	2,583.4	4.9	4.5	175.36	252.6	29.5	362.4	353.3	9.03	40.136		
2,700.0	2,696.7	2,683.4	2,683.1	5.1	4.7	175.21	252.1	28.0	367.6	358.2	9.38	39.197		
2,800.0	2,796.5	2,783.1	2,782.9	5.3	4.9	175.05	251.7	26.4	372.9	363.1	9.73	38.327		
2,900.0	2,896.3	2,883.8	2,883.5	5.5	5.0	174.87	251.3	24.6	378.1	368.0	10.08	37.504		
3,000.0	2,996.2	2,982.9	2,982.6	5.7	5.2	174.68	250.8	22.7	383.2	372.8	10.43	36.740		
3,100.0	3,096.0	3,082.3	3,082.0	5.9	5.4	174.50	250.4	20.9	388.6	377.8	10.78	36.042		
3,200.0	3,195.8	3,182.6	3,182.2	6.1	5.6	174.36	250.1	19.3	393.9	382.8	11.13	35.386		
3,300.0	3,295.6	3,282.2	3,281.9	6.3	5.7	174.27	249.7	18.0	399.2	387.7	11.48	34.770		
3,400.0	3,395.5	3,381.3	3,380.9	6.5	5.9	174.15	249.4	16.6	404.7	392.8	11.83	34.202		
3,500.0	3,495.3	3,480.6	3,480.2	6.7	6.1	173.99	249.3	14.8	410.3	398.1	12.18	33.679		
3,600.0	3,595.1	3,580.1	3,579.6	6.9	6.3	173.81	249.4	12.9	416.0	403.5	12.53	33.194		
3,700.0	3,694.9	3,679.5	3,679.0	7.1	6.4	173.67	249.6	11.1	421.8	409.0	12.88	32.742		
3,800.0	3,794.8	3,777.9	3,777.5	7.3	6.6	173.53	249.9	9.5	427.9	414.6	13.23	32.333		
3,900.0	3,894.6	3,876.5	3,876.0	7.5	6.8	173.41	250.5	8.0	434.2	420.6	13.58	31.970		
4,000.0	3,994.4	3,974.2	3,973.8	7.7	7.0	173.30	251.4	6.6	440.9	427.0	13.93	31.652		
4,100.0	4,094.2	4,073.2	4,072.7	7.9	7.1	173.15	252.8	4.9	448.0	433.7	14.28	31.371		
4,200.0	4,194.1	4,171.0	4,170.5	8.1	7.3	172.98	254.4	3.0	455.3	440.6	14.63	31.121		
4,300.0	4,293.9	4,265.4	4,264.8	8.3	7.5	172.78	256.7	0.9	463.3	448.3	14.97	30.943		
4,400.0	4,393.7	4,362.1	4,361.4	8.6	7.7	172.53	260.1	-1.5	472.4	457.1	15.32	30.837		
4,500.0	4,493.5	4,461.3	4,460.5	8.8	7.8	172.29	263.8	-3.9	481.8	466.1	15.67	30.740		
4,600.0	4,593.4	4,561.3	4,560.5	9.0	8.0	172.06	267.6	-6.3	491.2	475.2	16.03	30.646		
4,700.0	4,693.2	4,662.5	4,661.6	9.2	8.2	171.86	271.2	-8.5	500.4	484.0	16.38	30.539		
4,800.0	4,793.0	4,763.6	4,762.6	9.4	8.4	171.69	274.3	-10.6	509.2	492.4	16.74	30.418		
4,900.0	4,892.8	4,864.8	4,863.7	9.6	8.6	171.55	277.2	-12.5	517.7	500.6	17.09	30.287		
5,000.0	4,992.6	4,965.7	4,964.6	9.8	8.7	171.42	279.8	-14.4	526.0	508.6	17.45	30.145		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)						
5,100.0	5,092.5	5,066.1	5,064.9	10.0	8.9	171.30	282.2	-16.2	534.1	516.3	17.80	30.000		
5,200.0	5,192.3	5,166.6	5,165.4	10.2	9.1	171.20	284.5	-17.9	542.0	523.9	18.16	29.854		
5,300.0	5,292.1	5,266.4	5,265.1	10.4	9.3	171.11	286.6	-19.4	549.9	531.4	18.51	29.710		
5,400.0	5,391.9	5,365.9	5,364.6	10.6	9.4	171.04	288.7	-20.8	557.8	538.9	18.86	29.575		
5,500.0	5,491.8	5,465.7	5,464.4	10.8	9.6	170.99	290.8	-22.1	565.6	546.4	19.21	29.444		
5,600.0	5,591.6	5,566.2	5,564.9	11.0	9.8	170.96	292.9	-23.2	573.4	553.9	19.56	29.314		
5,700.0	5,691.4	5,666.7	5,665.3	11.2	10.0	170.94	294.7	-24.2	581.1	561.2	19.91	29.181		
5,800.0	5,791.2	5,766.4	5,765.0	11.4	10.2	170.93	296.5	-25.1	588.7	568.4	20.26	29.050		
5,900.0	5,891.1	5,870.6	5,869.2	11.6	10.3	170.92	298.1	-26.0	596.0	575.4	20.62	28.904		
6,000.0	5,990.9	5,972.2	5,970.8	11.8	10.5	170.98	298.9	-26.3	602.6	581.6	20.97	28.733		
6,100.0	6,090.7	6,073.6	6,072.2	12.0	10.7	171.06	299.5	-26.4	609.0	587.7	21.32	28.562		
6,200.0	6,190.5	6,173.5	6,172.0	12.2	10.9	171.12	299.9	-26.6	615.2	593.6	21.67	28.390		
6,300.0	6,290.4	6,273.3	6,271.9	12.4	11.0	171.17	300.3	-27.0	621.5	599.5	22.02	28.226		
6,400.0	6,390.2	6,373.2	6,371.8	12.6	11.2	171.22	300.7	-27.3	627.8	605.4	22.37	28.065		
6,500.0	6,490.0	6,472.6	6,471.2	12.8	11.4	171.26	301.2	-27.7	634.0	611.3	22.72	27.911		
6,600.0	6,589.8	6,572.2	6,570.8	13.0	11.6	171.30	301.7	-28.1	640.4	617.3	23.06	27.764		
6,700.0	6,689.7	6,671.9	6,670.5	13.2	11.7	171.34	302.2	-28.5	646.7	623.3	23.41	27.622		
6,800.0	6,789.5	6,772.0	6,770.6	13.4	11.9	153.21	302.7	-28.9	652.7	628.9	23.77	27.456		
6,900.0	6,889.1	6,873.2	6,871.8	13.5	12.1	9.45	303.1	-29.1	646.6	622.8	23.88	27.079		
7,000.0	6,986.2	6,971.4	6,970.0	13.4	12.3	7.28	303.2	-29.6	623.2	599.7	23.51	26.513		
7,100.0	7,077.6	7,064.6	7,063.2	13.3	12.4	7.32	303.2	-30.3	583.1	560.5	22.69	25.702		
7,200.0	7,160.6	7,148.2	7,146.8	13.1	12.6	8.40	302.9	-31.0	527.7	506.2	21.51	24.528		
7,300.0	7,232.8	7,220.1	7,218.6	13.0	12.7	10.82	302.7	-31.7	458.8	438.7	20.16	22.765		
7,400.0	7,291.8	7,278.9	7,277.5	13.0	12.8	15.94	302.5	-32.2	378.8	359.8	19.00	19.938		
7,500.0	7,336.0	7,322.5	7,321.1	13.2	12.9	27.74	302.4	-32.5	290.2	271.0	19.20	15.114		
7,600.0	7,364.0	7,350.0	7,348.6	13.5	12.9	55.57	302.3	-32.6	196.7	173.3	23.44	8.391		
7,700.0	7,374.9	7,360.6	7,359.2	14.1	12.9	88.22	302.3	-32.7	104.5	77.6	26.88	3.887		
7,790.2	7,376.0	7,361.6	7,360.2	14.8	12.9	90.24	302.3	-32.7	52.7	25.1	27.59	1.911	CC, ES, SF	
7,800.0	7,375.0	7,360.6	7,359.2	14.9	12.9	90.23	302.3	-32.7	53.6	25.9	27.66	1.938		
7,900.0	7,375.0	7,360.5	7,359.1	15.8	12.9	90.07	302.3	-32.7	121.8	93.2	28.59	4.259		
8,000.0	7,375.0	7,360.4	7,358.9	16.8	12.9	89.92	302.3	-32.7	216.3	186.6	29.64	7.296		
8,100.0	7,375.0	7,360.2	7,358.8	18.0	12.9	89.76	302.3	-32.7	314.2	283.4	30.81	10.199		
8,200.0	7,375.0	7,360.1	7,358.6	19.3	12.9	89.61	302.3	-32.7	413.1	381.1	32.06	12.885		
8,300.0	7,375.0	7,359.9	7,358.5	20.6	12.9	89.45	302.3	-32.7	512.5	479.1	33.39	15.347		
8,400.0	7,375.0	7,359.8	7,358.3	22.0	12.9	89.29	302.3	-32.7	612.0	577.3	34.78	17.597		
8,500.0	7,375.0	7,359.6	7,358.2	23.4	12.9	89.13	302.3	-32.7	711.7	675.5	36.22	19.651		
8,600.0	7,375.0	7,359.5	7,358.1	24.9	12.9	88.97	302.3	-32.7	811.5	773.8	37.69	21.528		
8,700.0	7,375.0	7,359.3	7,357.9	26.4	12.9	88.81	302.3	-32.7	911.3	872.1	39.20	23.244		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 73-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
1,500.0	1,498.8	1,719.7	1,690.6	2.7	5.5	-127.00	346.6	893.3	999.1	992.0	7.06	141.454	
1,600.0	1,598.6	1,831.4	1,798.6	2.9	6.1	-126.13	320.2	882.8	984.4	976.7	7.68	128.102	
1,700.0	1,698.5	1,936.4	1,899.9	3.1	6.6	-125.28	294.8	871.8	968.7	960.4	8.30	116.718	
1,800.0	1,798.3	2,033.8	1,993.7	3.3	7.0	-124.45	271.0	861.4	952.9	944.1	8.89	107.176	
1,900.0	1,898.1	2,137.3	2,093.6	3.5	7.6	-123.60	246.6	849.9	937.3	927.8	9.51	98.609	
2,000.0	1,997.9	2,241.4	2,193.9	3.7	8.1	-122.70	221.3	837.5	920.8	910.7	10.15	90.728	
2,100.0	2,097.8	2,335.4	2,284.2	3.9	8.6	-121.81	197.9	826.5	904.6	893.8	10.77	84.028	
2,200.0	2,197.6	2,433.9	2,379.1	4.1	9.0	-120.87	173.8	815.1	888.8	877.4	11.40	77.936	
2,300.0	2,297.4	2,527.2	2,468.9	4.3	9.5	-119.94	150.9	804.4	873.4	861.3	12.05	72.509	
2,400.0	2,397.2	2,639.2	2,576.7	4.5	10.1	-118.81	123.7	791.0	857.8	845.0	12.76	67.211	
2,500.0	2,497.1	2,745.9	2,679.1	4.7	10.6	-117.71	97.5	776.4	840.7	827.3	13.48	62.359	
2,600.0	2,596.9	2,845.6	2,774.5	4.9	11.2	-116.59	72.3	762.6	823.7	809.5	14.19	58.048	
2,700.0	2,696.7	2,936.8	2,862.0	5.1	11.6	-115.54	49.6	749.8	806.8	791.9	14.86	54.283	
2,800.0	2,796.5	3,023.4	2,945.1	5.3	12.1	-114.51	28.1	738.8	791.5	776.0	15.52	51.002	
2,900.0	2,896.3	3,115.8	3,034.1	5.5	12.5	-113.39	5.7	728.0	777.6	761.4	16.22	47.946	
3,000.0	2,996.2	3,219.7	3,133.9	5.7	13.1	-112.02	-20.4	716.0	764.1	747.1	17.02	44.892	
3,100.0	3,096.0	3,322.8	3,232.7	5.9	13.6	-110.55	-47.1	703.2	750.0	732.2	17.84	42.051	
3,200.0	3,195.8	3,421.5	3,327.3	6.1	14.2	-109.16	-72.0	690.3	735.9	717.3	18.62	39.522	
3,300.0	3,295.6	3,514.6	3,416.8	6.3	14.6	-107.84	-94.8	678.4	722.6	703.2	19.37	37.309	
3,400.0	3,395.5	3,616.8	3,515.2	6.5	15.1	-106.41	-119.1	665.3	709.7	689.5	20.16	35.207	
3,500.0	3,495.3	3,718.4	3,613.2	6.7	15.6	-105.04	-142.0	651.3	696.3	675.4	20.93	33.274	
3,600.0	3,595.1	3,801.2	3,693.3	6.9	16.0	-103.95	-159.9	640.3	683.9	662.3	21.58	31.694	
3,700.0	3,694.9	3,892.5	3,782.1	7.1	16.4	-102.80	-178.7	630.6	674.4	652.2	22.25	30.311	
3,800.0	3,794.8	3,988.4	3,875.8	7.3	16.8	-101.77	-196.0	620.1	665.0	642.2	22.89	29.060	
3,900.0	3,894.6	4,077.9	3,963.9	7.5	17.1	-101.01	-209.6	611.6	657.1	633.7	23.43	28.043	
4,000.0	3,994.4	4,172.2	4,057.1	7.7	17.4	-100.40	-221.7	603.8	650.5	626.5	23.95	27.157	
4,100.0	4,094.2	4,267.7	4,151.7	7.9	17.6	-99.89	-232.6	596.5	644.5	620.1	24.45	26.360	
4,200.0	4,194.1	4,365.0	4,248.3	8.1	17.9	-99.49	-242.3	589.7	639.2	614.3	24.91	25.661	
4,300.0	4,293.9	4,467.0	4,349.7	8.3	18.1	-99.30	-250.0	582.7	633.8	608.5	25.32	25.031	
4,400.0	4,393.7	4,558.6	4,441.0	8.6	18.2	-99.33	-254.6	577.1	629.0	603.4	25.66	24.515	
4,500.0	4,493.5	4,656.6	4,538.8	8.8	18.4	-99.42	-259.0	572.0	625.1	599.1	26.00	24.038	
4,600.0	4,593.4	4,751.3	4,633.4	9.0	18.6	-99.58	-262.5	567.3	621.3	595.0	26.31	23.613	
4,700.0	4,693.2	4,841.7	4,723.6	9.2	18.7	-99.86	-264.5	564.3	619.2	592.6	26.58	23.300	
4,800.0	4,793.0	4,935.7	4,817.6	9.4	18.7	-100.29	-265.3	562.4	618.2	591.4	26.81	23.063	
4,900.0	4,892.8	5,033.5	4,915.4	9.6	18.8	-100.86	-264.8	561.2	618.1	591.0	27.02	22.877	
5,000.0	4,992.6	5,134.1	5,016.0	9.8	18.9	-101.49	-263.8	559.9	617.9	590.7	27.22	22.705	
5,100.0	5,092.5	5,234.6	5,116.5	10.0	19.0	-102.15	-262.5	558.5	617.7	590.3	27.41	22.533	
5,200.0	5,192.3	5,334.9	5,216.8	10.2	19.0	-102.80	-261.3	557.0	617.5	589.9	27.61	22.361	
5,245.1	5,237.3	5,378.8	5,260.6	10.3	19.1	-103.08	-260.7	556.4	617.4	589.7	27.70	22.289 CC	
5,300.0	5,292.1	5,432.1	5,314.0	10.4	19.1	-103.44	-260.0	555.7	617.5	589.7	27.81	22.208	
5,400.0	5,391.9	5,530.7	5,412.5	10.6	19.2	-104.12	-258.4	554.8	618.0	590.0	27.99	22.077	
5,500.0	5,491.8	5,632.5	5,514.3	10.8	19.2	-104.82	-256.7	553.7	618.4	590.2	28.18	21.943	
5,600.0	5,591.6	5,733.5	5,615.2	11.0	19.3	-105.50	-255.1	552.3	618.6	590.3	28.37	21.803	
5,700.0	5,691.4	5,833.8	5,715.6	11.2	19.4	-106.17	-253.7	550.8	618.8	590.2	28.57	21.662	
5,800.0	5,791.2	5,935.3	5,817.1	11.4	19.5	-106.83	-252.5	549.1	618.9	590.1	28.78	21.507	
5,900.0	5,891.1	6,036.7	5,918.4	11.6	19.6	-107.43	-251.8	547.1	618.7	589.8	28.99	21.342	
5,977.9	5,968.8	6,113.4	5,995.1	11.7	19.7	-107.88	-251.4	545.6	618.7	589.5	29.16	21.218	
6,000.0	5,990.9	6,135.2	6,016.9	11.8	19.7	-108.01	-251.3	545.2	618.7	589.5	29.20	21.185	
6,100.0	6,090.7	6,233.6	6,115.3	12.0	19.8	-108.61	-250.4	543.5	618.9	589.5	29.41	21.043	
6,200.0	6,190.5	6,332.2	6,213.8	12.2	19.9	-109.24	-249.4	542.0	619.3	589.7	29.61	20.917	
6,300.0	6,290.4	6,430.4	6,312.1	12.4	20.0	-109.87	-248.2	540.6	620.1	590.3	29.81	20.799	
6,400.0	6,390.2	6,528.6	6,410.2	12.6	20.1	-110.47	-247.3	539.6	621.2	591.2	30.03	20.687	

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 73-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
6,500.0	6,490.0	6,627.7	6,509.3	12.8	20.2	-111.04	-246.6	538.8	622.6	592.3	30.24	20.585			
6,600.0	6,589.8	6,727.0	6,608.7	13.0	20.3	-111.64	-245.7	538.0	624.1	593.6	30.46	20.491			
6,700.0	6,689.7	6,826.2	6,707.8	13.2	20.4	-112.23	-244.8	537.3	625.7	595.1	30.67	20.401			
6,800.0	6,789.5	6,925.6	6,807.2	13.4	20.5	-130.98	-244.0	536.7	627.5	596.6	30.88	20.319			
6,900.0	6,889.1	7,025.5	6,907.1	13.5	20.6	85.63	-243.3	536.1	627.3	596.1	31.15	20.133			
7,000.0	6,986.2	7,122.3	7,003.9	13.4	20.7	85.31	-242.9	535.6	624.6	593.1	31.57	19.783			
7,100.0	7,077.6	7,213.3	7,094.9	13.3	20.7	88.14	-242.4	535.2	621.6	589.6	32.04	19.403			
7,158.5	7,127.4	7,262.9	7,144.5	13.2	20.8	90.34	-242.1	535.0	620.9	588.6	32.27	19.240 ES			
7,200.0	7,160.6	7,295.9	7,177.5	13.1	20.8	91.97	-241.9	534.9	621.4	589.0	32.40	19.178 SF			
7,300.0	7,232.8	7,367.6	7,249.2	13.0	20.9	95.65	-241.4	534.7	627.7	595.1	32.56	19.276			
7,400.0	7,291.8	7,426.6	7,308.2	13.0	21.0	98.15	-241.0	534.7	644.1	611.5	32.57	19.772			
7,500.0	7,336.0	7,471.1	7,352.7	13.2	21.0	98.65	-240.7	534.7	673.0	640.3	32.63	20.624			
7,600.0	7,364.0	7,499.6	7,381.2	13.5	21.0	96.47	-240.5	534.7	714.9	681.9	32.94	21.703			
7,700.0	7,374.9	7,511.2	7,392.8	14.1	21.0	91.17	-240.4	534.7	768.3	734.8	33.53	22.914			
7,800.0	7,375.0	7,512.1	7,393.7	14.9	21.0	90.34	-240.4	534.7	830.7	796.4	34.30	24.222			
7,900.0	7,375.0	7,512.9	7,394.4	15.8	21.0	90.41	-240.4	534.7	899.9	864.6	35.22	25.549			
8,000.0	7,375.0	7,513.6	7,395.2	16.8	21.0	90.48	-240.4	534.7	974.4	938.1	36.28	26.858			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5039-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-9.35	266.7	-43.9	271.0					
100.0	100.0	80.0	80.0	0.2	0.1	-9.35	266.7	-43.9	270.3	270.0	0.29	926.590		
200.0	200.0	180.0	180.0	0.3	0.3	-9.35	266.7	-43.9	270.3	269.6	0.64	421.794		
300.0	300.0	280.0	280.0	0.5	0.5	-9.35	266.7	-43.9	270.3	269.3	0.99	273.043		
400.0	400.0	380.0	380.0	0.7	0.7	-9.35	266.7	-43.9	270.3	268.9	1.34	201.856		
500.0	500.0	480.0	480.0	0.8	0.8	-9.35	266.7	-43.9	270.3	268.6	1.69	160.112		
600.0	600.0	580.0	580.0	1.0	1.0	-9.35	266.7	-43.9	270.3	268.2	2.04	132.675 CC, ES		
700.0	700.0	680.0	680.0	1.2	1.2	157.44	266.7	-43.9	271.1	268.7	2.39	113.610		
800.0	800.0	780.0	780.0	1.4	1.4	157.64	266.7	-43.9	273.5	270.7	2.73	100.007		
900.0	899.9	879.9	879.9	1.6	1.5	157.97	266.7	-43.9	277.5	274.4	3.08	90.006		
1,000.0	999.7	979.7	979.7	1.7	1.7	158.40	266.7	-43.9	282.9	279.5	3.43	82.403		
1,100.0	1,099.5	1,079.5	1,079.5	1.9	1.9	158.83	266.7	-43.9	288.4	284.6	3.78	76.226		
1,200.0	1,199.3	1,179.3	1,179.3	2.1	2.1	159.25	266.7	-43.9	294.0	289.8	4.13	71.098		
1,300.0	1,299.2	1,279.2	1,279.2	2.3	2.2	159.65	266.7	-43.9	299.5	295.0	4.49	66.776		
1,400.0	1,399.0	1,379.0	1,379.0	2.5	2.4	160.04	266.7	-43.9	305.1	300.3	4.84	63.083		
1,500.0	1,498.8	1,478.8	1,478.8	2.7	2.6	160.41	266.7	-43.9	310.7	305.5	5.19	59.893		
1,600.0	1,598.6	1,578.6	1,578.6	2.9	2.8	160.77	266.7	-43.9	316.3	310.7	5.54	57.110		
1,700.0	1,698.5	1,678.5	1,678.5	3.1	2.9	161.12	266.7	-43.9	321.9	316.0	5.89	54.661		
1,800.0	1,798.3	1,778.3	1,778.3	3.3	3.1	161.46	266.7	-43.9	327.5	321.3	6.24	52.490		
1,900.0	1,898.1	1,878.1	1,878.1	3.5	3.3	161.78	266.7	-43.9	333.1	326.5	6.59	50.553		
2,000.0	1,997.9	1,977.9	1,977.9	3.7	3.5	162.10	266.7	-43.9	338.8	331.8	6.94	48.813		
2,100.0	2,097.8	2,077.8	2,077.8	3.9	3.6	162.40	266.7	-43.9	344.4	337.1	7.29	47.243		
2,200.0	2,197.6	2,177.6	2,177.6	4.1	3.8	162.69	266.7	-43.9	350.1	342.4	7.64	45.818		
2,300.0	2,297.4	2,277.4	2,277.4	4.3	4.0	162.98	266.7	-43.9	355.8	347.8	7.99	44.520		
2,400.0	2,397.2	2,377.2	2,377.2	4.5	4.1	163.25	266.7	-43.9	361.4	353.1	8.34	43.333		
2,500.0	2,497.1	2,477.1	2,477.1	4.7	4.3	163.52	266.7	-43.9	367.1	358.4	8.69	42.242		
2,600.0	2,596.9	2,576.9	2,576.9	4.9	4.5	163.78	266.7	-43.9	372.8	363.8	9.04	41.237		
2,700.0	2,696.7	2,676.7	2,676.7	5.1	4.7	164.03	266.7	-43.9	378.5	369.1	9.39	40.308		
2,800.0	2,796.5	2,776.5	2,776.5	5.3	4.8	164.27	266.7	-43.9	384.2	374.5	9.74	39.447		
2,900.0	2,896.3	2,876.3	2,876.3	5.5	5.0	164.51	266.7	-43.9	389.9	379.9	10.09	38.646		
3,000.0	2,996.2	2,976.2	2,976.2	5.7	5.2	164.74	266.7	-43.9	395.7	385.2	10.44	37.900		
3,100.0	3,096.0	3,076.0	3,076.0	5.9	5.4	164.96	266.7	-43.9	401.4	390.6	10.79	37.203		
3,200.0	3,195.8	3,175.8	3,175.8	6.1	5.5	165.18	266.7	-43.9	407.1	396.0	11.14	36.550		
3,300.0	3,295.6	3,275.6	3,275.6	6.3	5.7	165.39	266.7	-43.9	412.9	401.4	11.49	35.938		
3,400.0	3,395.5	3,375.5	3,375.5	6.5	5.9	165.59	266.7	-43.9	418.6	406.8	11.84	35.363		
3,500.0	3,495.3	3,475.3	3,475.3	6.7	6.1	165.79	266.7	-43.9	424.4	412.2	12.19	34.821		
3,600.0	3,595.1	3,575.1	3,575.1	6.9	6.2	165.99	266.7	-43.9	430.1	417.6	12.54	34.310		
3,700.0	3,694.9	3,674.9	3,674.9	7.1	6.4	166.18	266.7	-43.9	435.9	423.0	12.89	33.827		
3,800.0	3,794.8	3,774.8	3,774.8	7.3	6.6	166.36	266.7	-43.9	441.6	428.4	13.23	33.370		
3,900.0	3,894.6	3,874.6	3,874.6	7.5	6.8	166.54	266.7	-43.9	447.4	433.8	13.58	32.937		
4,000.0	3,994.4	3,974.4	3,974.4	7.7	6.9	166.71	266.7	-43.9	453.2	439.2	13.93	32.526		
4,100.0	4,094.2	4,074.2	4,074.2	7.9	7.1	166.88	266.7	-43.9	459.0	444.7	14.28	32.135		
4,200.0	4,194.1	4,174.1	4,174.1	8.1	7.3	167.05	266.7	-43.9	464.7	450.1	14.63	31.764		
4,300.0	4,293.9	4,273.9	4,273.9	8.3	7.5	167.21	266.7	-43.9	470.5	455.5	14.98	31.410		
4,400.0	4,393.7	4,373.7	4,373.7	8.6	7.6	167.37	266.7	-43.9	476.3	461.0	15.33	31.072		
4,500.0	4,493.5	4,473.5	4,473.5	8.8	7.8	167.52	266.7	-43.9	482.1	466.4	15.68	30.750		
4,600.0	4,593.4	4,573.4	4,573.4	9.0	8.0	167.67	266.7	-43.9	487.9	471.9	16.03	30.442		
4,700.0	4,693.2	4,673.2	4,673.2	9.2	8.2	167.82	266.7	-43.9	493.7	477.3	16.38	30.148		
4,800.0	4,793.0	4,773.0	4,773.0	9.4	8.3	167.96	266.7	-43.9	499.5	482.8	16.72	29.866		
4,900.0	4,892.8	4,872.8	4,872.8	9.6	8.5	168.10	266.7	-43.9	505.3	488.2	17.07	29.596		
5,000.0	4,992.6	4,972.6	4,972.6	9.8	8.7	168.24	266.7	-43.9	511.1	493.7	17.42	29.336		
5,100.0	5,092.5	5,039.0	5,039.0	10.0	8.8	168.33	266.7	-43.9	518.0	500.3	17.71	29.244 SF		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 5039-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
5,200.0	5,192.3	5,039.0	5,039.0	10.2	8.8	168.33	266.7	-43.9	539.5	521.6	17.89	30.156	
5,300.0	5,292.1	5,039.0	5,039.0	10.4	8.8	168.33	266.7	-43.9	577.7	559.6	18.06	31.978	
5,400.0	5,391.9	5,039.0	5,039.0	10.6	8.8	168.33	266.7	-43.9	629.6	611.4	18.24	34.517	
5,500.0	5,491.8	5,039.0	5,039.0	10.8	8.8	168.33	266.7	-43.9	692.2	673.7	18.42	37.584	
5,600.0	5,591.6	5,039.0	5,039.0	11.0	8.8	168.33	266.7	-43.9	762.7	744.1	18.59	41.025	
5,700.0	5,691.4	5,039.0	5,039.0	11.2	8.8	168.33	266.7	-43.9	839.3	820.6	18.77	44.721	
5,800.0	5,791.2	5,039.0	5,039.0	11.4	8.8	168.33	266.7	-43.9	920.4	901.5	18.94	48.586	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	12.0	12.0	0.0	0.0	-89.98	0.0	-20.1	20.1					
100.0	100.0	112.0	112.0	0.2	0.2	-89.98	0.0	-20.1	20.1	19.8	0.30	66.306		
162.1	162.1	174.1	174.1	0.3	0.3	-89.98	0.0	-20.1	20.1	19.6	0.52	38.684 CC		
200.0	200.0	212.0	212.0	0.3	0.3	-90.00	0.0	-20.1	20.1	19.5	0.65	30.862 ES		
300.0	300.0	311.7	311.7	0.5	0.5	-92.04	-0.7	-20.9	20.9	19.9	1.00	20.903		
400.0	400.0	411.4	411.3	0.7	0.7	-96.67	-2.7	-23.0	23.1	21.8	1.35	17.112		
500.0	500.0	510.9	510.8	0.8	0.9	-102.50	-5.8	-26.2	26.9	25.2	1.70	15.821		
600.0	600.0	610.3	609.9	1.0	1.1	-108.24	-10.1	-30.8	32.4	30.4	2.05	15.842		
700.0	700.0	709.8	709.2	1.2	1.3	54.71	-15.4	-36.2	39.0	36.6	2.41	16.194		
800.0	800.0	809.7	808.7	1.4	1.5	53.74	-20.7	-41.8	44.6	41.9	2.76	16.171		
900.0	899.9	909.6	908.3	1.6	1.7	54.61	-26.0	-47.4	49.3	46.2	3.12	15.793		
1,000.0	999.7	1,009.5	1,007.9	1.7	1.9	56.62	-31.4	-53.0	53.2	49.7	3.49	15.230		
1,100.0	1,099.5	1,109.4	1,107.5	1.9	2.1	58.49	-36.7	-58.6	57.0	53.2	3.87	14.749		
1,200.0	1,199.3	1,209.3	1,207.2	2.1	2.4	60.11	-42.0	-64.2	60.9	56.7	4.25	14.352		
1,300.0	1,299.2	1,309.2	1,306.8	2.3	2.6	61.55	-47.4	-69.7	64.9	60.3	4.63	14.018		
1,400.0	1,399.0	1,409.1	1,406.4	2.5	2.8	62.81	-52.7	-75.3	68.9	63.8	5.01	13.735		
1,500.0	1,498.8	1,509.0	1,506.0	2.7	3.0	63.94	-58.0	-80.9	72.9	67.5	5.40	13.492		
1,600.0	1,598.6	1,608.9	1,605.6	2.9	3.2	64.95	-63.4	-86.5	76.9	71.1	5.79	13.281		
1,700.0	1,698.5	1,708.8	1,705.2	3.1	3.4	65.86	-68.7	-92.1	81.0	74.8	6.18	13.096		
1,800.0	1,798.3	1,808.7	1,804.8	3.3	3.7	66.68	-74.0	-97.7	85.1	78.5	6.58	12.934		
1,900.0	1,898.1	1,908.7	1,904.4	3.5	3.9	67.43	-79.4	-103.2	89.1	82.2	6.97	12.789		
2,000.0	1,997.9	2,008.6	2,004.0	3.7	4.1	68.11	-84.7	-108.8	93.3	85.9	7.37	12.660		
2,100.0	2,097.8	2,108.5	2,103.7	3.9	4.3	68.73	-90.0	-114.4	97.4	89.6	7.76	12.545		
2,200.0	2,197.6	2,208.4	2,203.3	4.1	4.5	69.30	-95.4	-120.0	101.5	93.3	8.16	12.441		
2,300.0	2,297.4	2,308.3	2,302.9	4.3	4.8	69.83	-100.7	-125.6	105.6	97.1	8.56	12.346		
2,400.0	2,397.2	2,408.2	2,402.5	4.5	5.0	70.32	-106.0	-131.2	109.8	100.8	8.96	12.260		
2,500.0	2,497.1	2,508.1	2,502.1	4.7	5.2	70.77	-111.4	-136.7	114.0	104.6	9.35	12.181		
2,600.0	2,596.9	2,608.0	2,601.7	4.9	5.4	71.19	-116.7	-142.3	118.1	108.4	9.75	12.109		
2,700.0	2,696.7	2,707.9	2,701.3	5.1	5.6	71.58	-122.0	-147.9	122.3	112.1	10.15	12.043		
2,800.0	2,796.5	2,807.8	2,800.9	5.3	5.9	71.95	-127.4	-153.5	126.5	115.9	10.55	11.982		
2,900.0	2,896.3	2,907.8	2,900.5	5.5	6.1	72.29	-132.7	-159.1	130.6	119.7	10.96	11.925		
3,000.0	2,996.2	3,007.7	3,000.2	5.7	6.3	72.61	-138.0	-164.6	134.8	123.5	11.36	11.872		
3,100.0	3,096.0	3,107.6	3,099.8	5.9	6.5	72.91	-143.4	-170.2	139.0	127.3	11.76	11.823		
3,200.0	3,195.8	3,207.5	3,199.4	6.1	6.7	73.20	-148.7	-175.8	143.2	131.0	12.16	11.778		
3,300.0	3,295.6	3,307.4	3,299.0	6.3	7.0	73.47	-154.0	-181.4	147.4	134.8	12.56	11.735		
3,400.0	3,395.5	3,407.3	3,398.6	6.5	7.2	73.72	-159.4	-187.0	151.6	138.6	12.96	11.695		
3,500.0	3,495.3	3,507.2	3,498.2	6.7	7.4	73.96	-164.7	-192.6	155.8	142.4	13.36	11.657		
3,600.0	3,595.1	3,607.1	3,597.8	6.9	7.6	74.19	-170.0	-198.1	160.0	146.2	13.77	11.622		
3,700.0	3,694.9	3,707.0	3,697.4	7.1	7.8	74.40	-175.4	-203.7	164.2	150.0	14.17	11.589		
3,800.0	3,794.8	3,806.9	3,797.0	7.3	8.1	74.61	-180.7	-209.3	168.4	153.8	14.57	11.557		
3,900.0	3,894.6	3,906.9	3,896.6	7.5	8.3	74.80	-186.0	-214.9	172.6	157.6	14.97	11.528		
4,000.0	3,994.4	4,006.8	3,996.3	7.7	8.5	74.99	-191.4	-220.5	176.8	161.4	15.38	11.500		
4,100.0	4,094.2	4,106.7	4,095.9	7.9	8.7	75.16	-196.7	-226.1	181.0	165.3	15.78	11.473		
4,200.0	4,194.1	4,206.6	4,195.5	8.1	8.9	75.33	-202.0	-231.6	185.2	169.1	16.18	11.448		
4,300.0	4,293.9	4,306.5	4,295.1	8.3	9.2	75.49	-207.3	-237.2	189.5	172.9	16.59	11.424		
4,400.0	4,393.7	4,406.4	4,394.7	8.6	9.4	75.65	-212.7	-242.8	193.7	176.7	16.99	11.401		
4,500.0	4,493.5	4,506.3	4,494.3	8.8	9.6	75.80	-218.0	-248.4	197.9	180.5	17.39	11.379		
4,600.0	4,593.4	4,606.2	4,593.9	9.0	9.8	75.94	-223.3	-254.0	202.1	184.3	17.79	11.358		
4,700.0	4,693.2	4,706.1	4,693.5	9.2	10.0	76.07	-228.7	-259.6	206.3	188.1	18.20	11.339		
4,800.0	4,793.0	4,806.0	4,793.1	9.4	10.3	76.20	-234.0	-265.1	210.6	192.0	18.60	11.320		
4,900.0	4,892.8	4,905.9	4,892.8	9.6	10.5	76.33	-239.3	-270.7	214.8	195.8	19.01	11.302		
5,000.0	4,992.6	5,005.9	4,992.4	9.8	10.7	76.45	-244.7	-276.3	219.0	199.6	19.41	11.284		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,092.5	5,105.8	5,092.0	10.0	10.9	76.56	-250.0	-281.9	223.2	203.4	19.81	11.268		
5,200.0	5,192.3	5,205.7	5,191.6	10.2	11.2	76.68	-255.3	-287.5	227.5	207.2	20.22	11.252		
5,300.0	5,292.1	5,305.6	5,291.2	10.4	11.4	76.78	-260.7	-293.1	231.7	211.1	20.62	11.236		
5,400.0	5,391.9	5,405.5	5,390.8	10.6	11.6	76.89	-266.0	-298.6	235.9	214.9	21.02	11.222		
5,500.0	5,491.8	5,505.4	5,490.4	10.8	11.8	76.99	-271.3	-304.2	240.1	218.7	21.43	11.208		
5,600.0	5,591.6	5,605.3	5,590.0	11.0	12.0	77.08	-276.7	-309.8	244.4	222.5	21.83	11.194		
5,700.0	5,691.4	5,705.2	5,689.6	11.2	12.3	77.18	-282.0	-315.4	248.6	226.4	22.23	11.181		
5,800.0	5,791.2	5,805.1	5,789.3	11.4	12.5	77.27	-287.3	-321.0	252.8	230.2	22.64	11.168		
5,900.0	5,891.1	5,905.0	5,888.9	11.6	12.7	77.35	-292.7	-326.6	257.1	234.0	23.04	11.156		
6,000.0	5,990.9	6,005.0	5,988.5	11.8	12.9	77.44	-298.0	-332.1	261.3	237.9	23.45	11.144		
6,100.0	6,090.7	6,104.9	6,088.1	12.0	13.1	77.52	-303.3	-337.7	265.5	241.7	23.85	11.133		
6,200.0	6,190.5	6,204.8	6,187.7	12.2	13.4	77.60	-308.7	-343.3	269.8	245.5	24.25	11.122		
6,300.0	6,290.4	6,304.7	6,287.3	12.4	13.6	77.67	-314.0	-348.9	274.0	249.3	24.66	11.112		
6,400.0	6,390.2	6,404.6	6,386.9	12.6	13.8	77.75	-319.3	-354.5	278.2	253.2	25.06	11.101		
6,500.0	6,490.0	6,504.5	6,486.5	12.8	14.0	77.82	-324.7	-360.0	282.5	257.0	25.47	11.091		
6,600.0	6,589.8	6,604.4	6,586.1	13.0	14.2	77.89	-330.0	-365.6	286.7	260.8	25.87	11.082		
6,700.0	6,689.7	6,704.3	6,685.8	13.2	14.5	77.96	-335.3	-371.2	290.9	264.7	26.27	11.073		
6,800.0	6,789.5	6,804.2	6,785.4	13.4	14.7	79.87	-340.7	-376.8	295.2	268.5	26.67	11.065		
6,900.0	6,889.1	6,903.3	6,884.2	13.5	14.9	-85.81	-345.4	-382.3	299.4	272.6	26.83	11.161		
7,000.0	6,986.2	7,003.4	6,983.7	13.4	15.0	-90.95	-337.6	-388.1	304.5	277.8	26.69	11.410		
7,100.0	7,077.6	7,106.4	7,083.0	13.3	15.0	-94.11	-311.6	-394.0	310.5	284.1	26.39	11.768		
7,200.0	7,160.6	7,212.6	7,178.9	13.1	14.9	-96.62	-266.6	-400.0	317.0	291.0	26.02	12.185		
7,300.0	7,232.8	7,321.9	7,267.1	13.0	14.8	-98.67	-202.6	-405.8	323.8	298.0	25.71	12.591		
7,400.0	7,291.8	7,434.4	7,343.5	13.0	14.8	-100.28	-120.6	-411.1	330.2	304.6	25.61	12.895		
7,500.0	7,336.0	7,549.5	7,403.7	13.2	14.9	-101.46	-22.7	-415.7	336.0	310.1	25.83	13.008		
7,600.0	7,364.0	7,666.9	7,443.7	13.5	15.2	-102.17	87.3	-419.4	340.6	314.1	26.49	12.859		
7,700.0	7,374.9	7,785.7	7,460.6	14.1	15.8	-102.42	204.7	-421.7	343.8	316.2	27.60	12.458		
7,800.0	7,375.0	7,889.3	7,461.0	14.9	16.5	-102.36	308.3	-423.0	345.8	316.7	29.10	11.880		
7,900.0	7,375.0	7,989.3	7,461.0	15.8	17.3	-102.29	408.3	-424.3	347.6	316.7	30.91	11.248		
8,000.0	7,375.0	8,089.3	7,461.0	16.8	18.3	-102.23	508.3	-425.5	349.5	316.5	32.97	10.601		
8,100.0	7,375.0	8,189.3	7,461.0	18.0	19.4	-102.16	608.2	-426.7	351.4	316.1	35.25	9.969		
8,200.0	7,375.0	8,289.2	7,461.0	19.3	20.5	-102.09	708.2	-427.9	353.3	315.6	37.70	9.370		
8,300.0	7,375.0	8,389.2	7,461.0	20.6	21.8	-102.03	808.2	-429.1	355.1	314.8	40.30	8.812		
8,400.0	7,375.0	8,489.2	7,461.0	22.0	23.1	-101.96	908.2	-430.4	357.0	314.0	43.02	8.299		
8,500.0	7,375.0	8,589.2	7,461.0	23.4	24.5	-101.90	1,008.1	-431.6	358.9	313.1	45.84	7.830		
8,600.0	7,375.0	8,689.2	7,461.0	24.9	25.9	-101.84	1,108.1	-432.8	360.8	312.0	48.74	7.403		
8,700.0	7,375.0	8,789.1	7,461.0	26.4	27.4	-101.78	1,208.1	-434.0	362.7	311.0	51.70	7.014		
8,800.0	7,375.0	8,889.1	7,461.0	27.9	28.8	-101.71	1,308.0	-435.2	364.5	309.8	54.72	6.661		
8,900.0	7,375.0	8,989.1	7,461.0	29.5	30.4	-101.65	1,408.0	-436.5	366.4	308.6	57.80	6.340		
9,000.0	7,375.0	9,089.1	7,461.0	31.1	31.9	-101.59	1,508.0	-437.7	368.3	307.4	60.91	6.047		
9,100.0	7,375.0	9,189.1	7,461.0	32.7	33.5	-101.53	1,608.0	-438.9	370.2	306.1	64.06	5.779		
9,200.0	7,375.0	9,289.1	7,461.0	34.3	35.0	-101.47	1,707.9	-440.1	372.1	304.8	67.23	5.534		
9,300.0	7,375.0	9,389.0	7,461.0	35.9	36.6	-101.39	1,807.9	-441.4	374.9	304.7	70.24	5.338		
9,400.0	7,375.0	9,488.9	7,461.0	37.6	38.3	-101.26	1,907.8	-442.6	379.5	306.1	73.43	5.168		
9,500.0	7,375.0	9,588.8	7,461.0	39.2	39.9	-101.12	2,007.7	-443.8	384.1	307.4	76.70	5.008		
9,600.0	7,375.0	9,688.7	7,461.0	40.9	41.5	-100.99	2,107.5	-445.0	388.7	308.8	79.98	4.860		
9,700.0	7,375.0	9,788.6	7,461.0	42.5	43.1	-100.86	2,207.4	-446.2	393.4	310.1	83.28	4.723		
9,800.0	7,375.0	9,888.5	7,461.0	44.2	44.8	-100.73	2,307.3	-447.5	398.0	311.4	86.60	4.596		
9,900.0	7,375.0	9,988.3	7,461.0	45.9	46.5	-100.60	2,407.2	-448.7	402.6	312.7	89.93	4.477		
10,000.0	7,375.0	10,088.2	7,461.0	47.6	48.1	-100.48	2,507.1	-449.9	407.2	314.0	93.27	4.366		
10,100.0	7,375.0	10,188.1	7,461.0	49.3	49.8	-100.36	2,606.9	-451.1	411.9	315.3	96.62	4.263		
10,200.0	7,375.0	10,288.0	7,461.0	50.9	51.5	-100.26	2,706.9	-452.3	415.7	315.5	100.20	4.149		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,300.0	7,375.0	10,388.0	7,461.0	52.6	53.1	-100.22	2,806.8	-453.6	417.2	313.6	103.67	4.025		
10,400.0	7,375.0	10,488.0	7,461.0	54.3	54.8	-100.19	2,906.8	-454.8	418.4	311.4	107.03	3.910		
10,500.0	7,375.0	10,588.0	7,461.0	56.0	56.5	-100.17	3,006.8	-456.0	419.3	308.7	110.51	3.794		
10,600.0	7,375.0	10,688.0	7,461.0	57.8	58.2	-100.18	3,106.8	-457.2	418.7	304.8	113.88	3.676		
10,700.0	7,375.0	10,788.0	7,461.0	59.5	59.9	-100.20	3,206.8	-458.4	418.1	300.8	117.24	3.566		
10,800.0	7,375.0	10,888.0	7,461.0	61.2	61.6	-100.21	3,306.8	-459.7	417.5	296.9	120.61	3.461		
10,900.0	7,375.0	10,988.0	7,461.0	62.9	63.3	-100.22	3,406.8	-460.9	416.9	292.9	123.98	3.362		
11,000.0	7,375.0	11,088.0	7,461.0	64.6	65.0	-100.24	3,506.8	-462.1	416.3	288.9	127.36	3.269		
11,100.0	7,375.0	11,188.0	7,461.0	66.3	66.7	-100.25	3,606.8	-463.3	415.7	285.0	130.74	3.180		
11,200.0	7,375.0	11,288.0	7,461.0	68.1	68.4	-100.27	3,706.8	-464.6	415.1	281.0	134.12	3.095		
11,300.0	7,375.0	11,388.0	7,461.0	69.8	70.2	-100.28	3,806.7	-465.8	414.5	277.0	137.50	3.015		
11,400.0	7,375.0	11,488.0	7,461.0	71.5	71.9	-100.30	3,906.7	-467.0	413.9	273.0	140.89	2.938		
11,500.0	7,375.0	11,588.0	7,461.0	73.2	73.6	-100.31	4,006.7	-468.2	413.3	269.0	144.28	2.865		
11,600.0	7,375.0	11,688.0	7,461.0	75.0	75.3	-100.33	4,106.7	-469.4	412.7	265.1	147.67	2.795		
11,700.0	7,375.0	11,788.0	7,461.0	76.7	77.0	-100.34	4,206.7	-470.7	412.1	261.1	151.07	2.728		
11,800.0	7,375.0	11,888.0	7,461.0	78.4	78.8	-100.36	4,306.7	-471.9	411.5	257.1	154.46	2.664		
11,900.0	7,375.0	11,988.0	7,461.0	80.1	80.5	-100.37	4,406.7	-473.1	410.9	253.1	157.86	2.603		
12,000.0	7,375.0	12,088.0	7,461.0	81.9	82.2	-100.39	4,506.7	-474.3	410.4	249.1	161.26	2.545		
12,100.0	7,375.0	12,188.0	7,461.0	83.6	83.9	-100.40	4,606.7	-475.5	409.8	245.1	164.66	2.489		
12,200.0	7,375.0	12,288.0	7,461.0	85.3	85.7	-100.42	4,706.7	-476.8	409.2	241.1	168.06	2.435		
12,300.0	7,375.0	12,388.0	7,461.0	87.1	87.4	-100.44	4,806.6	-478.0	408.6	237.1	171.47	2.383		
12,400.0	7,375.0	12,488.0	7,461.0	88.8	89.1	-100.45	4,906.6	-479.2	408.0	233.1	174.87	2.333		
12,500.0	7,375.0	12,588.0	7,461.0	90.6	90.8	-100.47	5,006.6	-480.4	407.4	229.1	178.28	2.285		
12,600.0	7,375.0	12,688.0	7,461.0	92.3	92.6	-100.48	5,106.6	-481.7	406.8	225.1	181.68	2.239		
12,700.0	7,375.0	12,788.0	7,461.0	94.0	94.3	-100.50	5,206.6	-482.9	406.2	221.1	185.09	2.195		
12,800.0	7,375.0	12,888.0	7,461.0	95.8	96.0	-100.51	5,306.6	-484.1	405.6	217.1	188.50	2.152		
12,900.0	7,375.0	12,988.0	7,461.0	97.5	97.8	-100.53	5,406.6	-485.3	405.0	213.1	191.91	2.110		
13,000.0	7,375.0	13,088.0	7,461.0	99.2	99.5	-100.54	5,506.6	-486.5	404.4	209.1	195.32	2.071		
13,100.0	7,375.0	13,188.0	7,461.0	101.0	101.2	-100.56	5,606.6	-487.8	403.8	205.1	198.73	2.032		
13,200.0	7,375.0	13,288.0	7,461.0	102.7	103.0	-100.57	5,706.6	-489.0	403.2	201.1	202.14	1.995		
13,300.0	7,375.0	13,388.0	7,461.0	104.5	104.7	-100.59	5,806.6	-490.2	402.6	197.1	205.56	1.959		
13,400.0	7,375.0	13,488.0	7,461.0	106.2	106.5	-100.61	5,906.5	-491.4	402.0	193.1	208.97	1.924		
13,500.0	7,375.0	13,588.0	7,461.0	107.9	108.2	-100.62	6,006.5	-492.7	401.5	189.1	212.38	1.890		
13,600.0	7,375.0	13,688.0	7,461.0	109.7	109.9	-100.64	6,106.5	-493.9	400.9	185.1	215.79	1.858		
13,700.0	7,375.0	13,788.0	7,461.0	111.4	111.7	-100.65	6,206.5	-495.1	400.3	181.1	219.21	1.826		
13,800.0	7,375.0	13,888.0	7,461.0	113.2	113.4	-100.67	6,306.5	-496.3	399.7	177.1	222.62	1.795		
13,900.0	7,375.0	13,988.0	7,461.0	114.9	115.1	-100.69	6,406.5	-497.5	399.1	173.0	226.04	1.766		
14,000.0	7,375.0	14,088.0	7,461.0	116.7	116.9	-100.70	6,506.5	-498.8	398.5	169.0	229.45	1.737		
14,100.0	7,375.0	14,188.0	7,461.0	118.4	118.6	-100.72	6,606.5	-500.0	397.9	165.0	232.87	1.709		
14,200.0	7,375.0	14,288.0	7,461.0	120.1	120.4	-100.73	6,706.5	-501.2	397.3	161.0	236.28	1.681		
14,300.0	7,375.0	14,388.0	7,461.0	121.9	122.1	-100.75	6,806.5	-502.4	396.7	157.0	239.70	1.655		
14,400.0	7,375.0	14,488.0	7,461.0	123.6	123.8	-100.77	6,906.5	-503.6	396.1	153.0	243.11	1.629		
14,500.0	7,375.0	14,587.9	7,461.0	125.4	125.6	-100.78	7,006.4	-504.9	395.5	149.0	246.53	1.604		
14,600.0	7,375.0	14,687.9	7,461.0	127.1	127.3	-100.80	7,106.4	-506.1	394.9	145.0	249.94	1.580		
14,700.0	7,375.0	14,787.9	7,461.0	128.9	129.1	-100.82	7,206.4	-507.3	394.3	141.0	253.36	1.556		
14,800.0	7,375.0	14,887.9	7,461.0	130.6	130.8	-100.83	7,306.4	-508.5	393.7	137.0	256.78	1.533		
14,900.0	7,375.0	14,987.9	7,461.0	132.4	132.6	-100.85	7,406.4	-509.8	393.2	133.0	260.19	1.511		
15,000.0	7,375.0	15,087.9	7,461.0	134.1	134.3	-100.87	7,506.4	-511.0	392.6	129.0	263.61	1.489 Level 3		
15,094.7	7,375.0	15,182.7	7,461.0	135.8	136.0	-100.88	7,601.1	-512.1	392.0	125.2	266.84	1.469 Level 3, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	12.0	12.0	0.0	0.0	-89.95	0.0	-10.1	10.1					
100.0	100.0	112.0	112.0	0.2	0.2	-89.95	0.0	-10.1	10.1	9.8	0.30	33.153		
200.0	200.0	212.0	212.0	0.3	0.3	-89.95	0.0	-10.1	10.1	9.4	0.65	15.424		
262.1	262.1	274.1	274.1	0.4	0.4	-89.95	0.0	-10.1	10.1	9.2	0.87	11.578 CC		
300.0	300.0	312.0	312.0	0.5	0.5	-90.01	0.0	-10.1	10.1	9.1	1.00	10.056 ES		
400.0	400.0	411.9	411.9	0.7	0.7	-94.91	-0.9	-10.7	10.7	9.3	1.35	7.913		
500.0	500.0	511.7	511.7	0.8	0.9	-105.17	-3.3	-12.2	12.6	10.9	1.70	7.408		
600.0	600.0	611.4	611.2	1.0	1.0	-116.09	-7.1	-14.6	16.3	14.2	2.05	7.933		
700.0	700.0	711.1	710.8	1.2	1.2	43.77	-12.3	-17.8	21.0	18.6	2.40	8.745		
800.0	800.0	811.1	810.5	1.4	1.4	41.88	-17.5	-21.2	24.8	22.1	2.76	9.008		
900.0	899.9	911.0	910.3	1.6	1.6	42.87	-22.8	-24.5	27.4	24.2	3.11	8.785		
1,000.0	999.7	1,011.0	1,010.1	1.7	1.8	45.66	-28.1	-27.8	28.9	25.4	3.48	8.298		
1,100.0	1,099.5	1,111.0	1,109.9	1.9	2.0	48.38	-33.4	-31.2	30.3	26.5	3.85	7.884		
1,200.0	1,199.3	1,211.0	1,209.6	2.1	2.2	50.83	-38.7	-34.5	31.9	27.7	4.22	7.548		
1,300.0	1,299.2	1,310.9	1,309.4	2.3	2.4	53.06	-44.0	-37.9	33.5	28.9	4.60	7.272		
1,400.0	1,399.0	1,410.9	1,409.2	2.5	2.6	55.08	-49.3	-41.2	35.1	30.1	4.99	7.042		
1,500.0	1,498.8	1,510.9	1,509.0	2.7	2.8	56.92	-54.5	-44.6	36.8	31.4	5.37	6.849		
1,600.0	1,598.6	1,610.9	1,608.8	2.9	3.1	58.59	-59.8	-47.9	38.5	32.8	5.76	6.684		
1,700.0	1,698.5	1,710.9	1,708.6	3.1	3.3	60.13	-65.1	-51.2	40.3	34.1	6.15	6.542		
1,800.0	1,798.3	1,810.8	1,808.3	3.3	3.5	61.53	-70.4	-54.6	42.0	35.5	6.55	6.420		
1,900.0	1,898.1	1,910.8	1,908.1	3.5	3.7	62.82	-75.7	-57.9	43.8	36.9	6.94	6.313		
2,000.0	1,997.9	2,010.8	2,007.9	3.7	3.9	64.01	-81.0	-61.3	45.7	38.3	7.34	6.219		
2,100.0	2,097.8	2,110.8	2,107.7	3.9	4.1	65.10	-86.3	-64.6	47.5	39.7	7.74	6.137		
2,200.0	2,197.6	2,210.8	2,207.5	4.1	4.3	66.12	-91.6	-68.0	49.3	41.2	8.14	6.063		
2,300.0	2,297.4	2,310.7	2,307.3	4.3	4.5	67.06	-96.9	-71.3	51.2	42.7	8.54	5.998		
2,400.0	2,397.2	2,410.7	2,407.0	4.5	4.7	67.93	-102.1	-74.6	53.1	44.1	8.94	5.939		
2,500.0	2,497.1	2,510.7	2,506.8	4.7	4.9	68.75	-107.4	-78.0	55.0	45.6	9.34	5.886		
2,600.0	2,596.9	2,610.7	2,606.6	4.9	5.1	69.51	-112.7	-81.3	56.9	47.1	9.74	5.838		
2,700.0	2,696.7	2,710.7	2,706.4	5.1	5.3	70.22	-118.0	-84.7	58.8	48.6	10.14	5.795		
2,800.0	2,796.5	2,810.6	2,806.2	5.3	5.5	70.88	-123.3	-88.0	60.7	50.1	10.55	5.755		
2,900.0	2,896.3	2,910.6	2,906.0	5.5	5.7	71.51	-128.6	-91.3	62.6	51.7	10.95	5.719		
3,000.0	2,996.2	3,010.6	3,005.7	5.7	5.9	72.10	-133.9	-94.7	64.5	53.2	11.35	5.686		
3,100.0	3,096.0	3,110.6	3,105.5	5.9	6.1	72.65	-139.2	-98.0	66.5	54.7	11.76	5.655		
3,200.0	3,195.8	3,210.5	3,205.3	6.1	6.3	73.17	-144.4	-101.4	68.4	56.3	12.16	5.627		
3,300.0	3,295.6	3,310.5	3,305.1	6.3	6.5	73.67	-149.7	-104.7	70.4	57.8	12.56	5.602		
3,400.0	3,395.5	3,410.5	3,404.9	6.5	6.7	74.13	-155.0	-108.1	72.3	59.4	12.97	5.578		
3,500.0	3,495.3	3,510.5	3,504.7	6.7	7.0	74.58	-160.3	-111.4	74.3	60.9	13.37	5.555		
3,600.0	3,595.1	3,610.5	3,604.4	6.9	7.2	75.00	-165.6	-114.7	76.3	62.5	13.78	5.535		
3,700.0	3,694.9	3,710.4	3,704.2	7.1	7.4	75.39	-170.9	-118.1	78.2	64.0	14.18	5.515		
3,800.0	3,794.8	3,810.4	3,804.0	7.3	7.6	75.77	-176.2	-121.4	80.2	65.6	14.59	5.497		
3,900.0	3,894.6	3,910.4	3,903.8	7.5	7.8	76.13	-181.5	-124.8	82.2	67.2	14.99	5.480		
4,000.0	3,994.4	4,010.4	4,003.6	7.7	8.0	76.48	-186.7	-128.1	84.1	68.7	15.40	5.465		
4,100.0	4,094.2	4,110.4	4,103.4	7.9	8.2	76.81	-192.0	-131.5	86.1	70.3	15.80	5.450		
4,200.0	4,194.1	4,210.3	4,203.1	8.1	8.4	77.12	-197.3	-134.8	88.1	71.9	16.21	5.436		
4,300.0	4,293.9	4,310.3	4,302.9	8.3	8.6	77.42	-202.6	-138.1	90.1	73.5	16.61	5.423		
4,400.0	4,393.7	4,410.3	4,402.7	8.6	8.8	77.70	-207.9	-141.5	92.1	75.1	17.02	5.410		
4,500.0	4,493.5	4,510.3	4,502.5	8.8	9.0	77.98	-213.2	-144.8	94.1	76.6	17.43	5.399		
4,600.0	4,593.4	4,610.3	4,602.3	9.0	9.2	78.24	-218.5	-148.2	96.1	78.2	17.83	5.388		
4,700.0	4,693.2	4,710.2	4,702.1	9.2	9.4	78.49	-223.8	-151.5	98.1	79.8	18.24	5.377		
4,800.0	4,793.0	4,810.2	4,801.8	9.4	9.6	78.74	-229.0	-154.9	100.1	81.4	18.64	5.367		
4,900.0	4,892.8	4,910.2	4,901.6	9.6	9.8	78.97	-234.3	-158.2	102.1	83.0	19.05	5.358		
5,000.0	4,992.6	5,010.2	5,001.4	9.8	10.0	79.19	-239.6	-161.5	104.0	84.6	19.45	5.349		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,100.0	5,092.5	5,110.2	5,101.2	10.0	10.2	79.41	-244.9	-164.9	106.1	86.2	19.86	5.340		
5,200.0	5,192.3	5,210.1	5,201.0	10.2	10.4	79.62	-250.2	-168.2	108.1	87.8	20.26	5.332		
5,300.0	5,292.1	5,310.1	5,300.8	10.4	10.7	79.82	-255.5	-171.6	110.1	89.4	20.67	5.324		
5,400.0	5,391.9	5,410.1	5,400.5	10.6	10.9	80.01	-260.8	-174.9	112.1	91.0	21.08	5.317		
5,500.0	5,491.8	5,510.1	5,500.3	10.8	11.1	80.19	-266.1	-178.2	114.1	92.6	21.48	5.310		
5,600.0	5,591.6	5,610.0	5,600.1	11.0	11.3	80.37	-271.3	-181.6	116.1	94.2	21.89	5.303		
5,700.0	5,691.4	5,710.0	5,699.9	11.2	11.5	80.55	-276.6	-184.9	118.1	95.8	22.29	5.297		
5,800.0	5,791.2	5,810.0	5,799.7	11.4	11.7	80.71	-281.9	-188.3	120.1	97.4	22.70	5.290		
5,900.0	5,891.1	5,910.0	5,899.5	11.6	11.9	80.88	-287.2	-191.6	122.1	99.0	23.11	5.284		
6,000.0	5,990.9	6,010.0	5,999.2	11.8	12.1	81.03	-292.5	-195.0	124.1	100.6	23.51	5.279		
6,100.0	6,090.7	6,109.9	6,099.0	12.0	12.3	81.19	-297.8	-198.3	126.1	102.2	23.92	5.273		
6,200.0	6,190.5	6,209.9	6,198.8	12.2	12.5	81.33	-303.1	-201.6	128.1	103.8	24.32	5.268		
6,300.0	6,290.4	6,309.9	6,298.6	12.4	12.7	81.47	-308.4	-205.0	130.1	105.4	24.73	5.263		
6,400.0	6,390.2	6,409.9	6,398.4	12.6	12.9	81.61	-313.6	-208.3	132.2	107.0	25.14	5.258		
6,500.0	6,490.0	6,509.9	6,498.2	12.8	13.1	81.75	-318.9	-211.7	134.2	108.6	25.54	5.253		
6,600.0	6,589.8	6,609.8	6,597.9	13.0	13.3	81.88	-324.2	-215.0	136.2	110.2	25.95	5.249		
6,700.0	6,689.7	6,709.8	6,697.7	13.2	13.5	82.00	-329.5	-218.4	138.2	111.9	26.35	5.245		
6,800.0	6,789.5	6,809.8	6,797.5	13.4	13.7	83.85	-334.8	-221.7	140.2	113.4	26.75	5.241		
6,900.0	6,889.1	6,909.0	6,896.5	13.5	13.9	-84.74	-340.0	-225.0	141.7	114.8	26.85	5.276		
7,000.0	6,986.2	7,004.6	6,991.9	13.4	14.1	-97.76	-345.1	-228.2	146.4	119.9	26.50	5.524		
7,100.0	7,077.6	7,104.8	7,091.9	13.3	14.3	-110.80	-342.4	-231.6	160.0	134.3	25.69	6.227		
7,200.0	7,160.6	7,213.3	7,197.8	13.1	14.3	-121.24	-319.9	-235.5	180.4	155.7	24.62	7.327		
7,300.0	7,232.8	7,331.4	7,306.1	13.0	14.1	-129.15	-273.2	-239.7	204.1	180.7	23.43	8.711		
7,400.0	7,291.8	7,460.8	7,410.8	13.0	14.0	-134.88	-197.9	-244.0	227.9	205.6	22.31	10.212		
7,500.0	7,336.0	7,602.1	7,502.8	13.2	13.9	-138.73	-91.3	-248.3	248.6	227.1	21.50	11.561		
7,600.0	7,364.0	7,754.1	7,569.4	13.5	14.2	-140.91	44.9	-252.0	263.5	242.3	21.26	12.397		
7,700.0	7,374.9	7,913.4	7,598.4	14.1	14.9	-141.50	200.9	-254.6	270.8	249.0	21.79	12.423		
7,800.0	7,375.0	8,023.1	7,599.0	14.9	15.7	-141.21	310.6	-255.7	272.0	249.1	22.90	11.877		
7,900.0	7,375.0	8,123.1	7,599.0	15.8	16.6	-140.92	410.6	-256.8	273.1	249.0	24.17	11.302		
8,000.0	7,375.0	8,223.1	7,599.0	16.8	17.6	-140.64	510.6	-257.8	274.2	248.6	25.58	10.720		
8,100.0	7,375.0	8,323.1	7,599.0	18.0	18.7	-140.36	610.6	-258.9	275.3	248.2	27.13	10.148		
8,200.0	7,375.0	8,423.1	7,599.0	19.3	20.0	-140.08	710.6	-259.9	276.4	247.6	28.80	9.599		
8,300.0	7,375.0	8,523.1	7,599.0	20.6	21.2	-139.80	810.5	-261.0	277.6	247.0	30.58	9.078		
8,400.0	7,375.0	8,623.0	7,599.0	22.0	22.6	-139.53	910.5	-262.0	278.7	246.3	32.44	8.591		
8,500.0	7,375.0	8,723.0	7,599.0	23.4	24.0	-139.26	1,010.5	-263.1	279.8	245.4	34.39	8.137		
8,600.0	7,375.0	8,823.0	7,599.0	24.9	25.4	-138.99	1,110.5	-264.1	281.0	244.6	36.41	7.716		
8,700.0	7,375.0	8,923.0	7,599.0	26.4	26.9	-138.72	1,210.5	-265.2	282.1	243.6	38.50	7.327		
8,800.0	7,375.0	9,023.0	7,599.0	27.9	28.4	-138.45	1,310.4	-266.2	283.3	242.6	40.65	6.969		
8,900.0	7,375.0	9,123.0	7,599.0	29.5	30.0	-138.19	1,410.4	-267.3	284.4	241.6	42.85	6.637		
9,000.0	7,375.0	9,223.0	7,599.0	31.1	31.5	-137.93	1,510.4	-268.3	285.6	240.5	45.11	6.332		
9,100.0	7,375.0	9,322.9	7,599.0	32.7	33.1	-137.67	1,610.4	-269.4	286.8	239.4	47.41	6.050		
9,200.0	7,375.0	9,422.9	7,599.0	34.3	34.7	-137.41	1,710.4	-270.4	288.0	238.2	49.75	5.789		
9,300.0	7,375.0	9,522.9	7,599.0	35.9	36.3	-137.03	1,810.3	-271.5	289.8	237.7	52.10	5.562		
9,400.0	7,375.0	9,622.8	7,599.0	37.6	38.0	-136.40	1,910.2	-272.5	292.9	238.1	54.80	5.345		
9,500.0	7,375.0	9,722.7	7,599.0	39.2	39.6	-135.76	2,010.1	-273.5	296.1	238.5	57.58	5.141		
9,600.0	7,375.0	9,822.6	7,599.0	40.9	41.2	-135.14	2,110.0	-274.6	299.2	238.8	60.42	4.953		
9,700.0	7,375.0	9,922.5	7,599.0	42.5	42.9	-134.53	2,209.9	-275.6	302.5	239.1	63.31	4.778		
9,800.0	7,375.0	10,022.4	7,599.0	44.2	44.5	-133.94	2,309.8	-276.7	305.7	239.5	66.23	4.616		
9,900.0	7,375.0	10,122.3	7,599.0	45.9	46.2	-133.35	2,409.7	-277.7	309.0	239.8	69.21	4.465		
10,000.0	7,375.0	10,222.2	7,599.0	47.6	47.9	-132.78	2,509.6	-278.8	312.3	240.1	72.22	4.325		
10,100.0	7,375.0	10,322.1	7,599.0	49.3	49.6	-132.22	2,609.4	-279.8	315.7	240.4	75.26	4.194		
10,200.0	7,375.0	10,422.0	7,599.0	50.9	51.3	-131.76	2,709.4	-280.9	318.4	240.0	78.39	4.062		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,375.0	10,522.0	7,599.0	52.6	52.9	-131.58	2,809.4	-281.9	319.4	238.3	81.18	3.935		
10,400.0	7,375.0	10,622.0	7,599.0	54.3	54.6	-131.46	2,909.3	-283.0	320.2	236.4	83.87	3.818		
10,500.0	7,375.0	10,722.0	7,599.0	56.0	56.3	-131.38	3,009.3	-284.0	320.7	234.1	86.58	3.704		
10,600.0	7,375.0	10,822.0	7,599.0	57.8	58.0	-131.47	3,109.3	-285.1	320.1	231.1	89.04	3.595		
10,700.0	7,375.0	10,922.0	7,599.0	59.5	59.7	-131.56	3,209.3	-286.1	319.6	228.1	91.49	3.493		
10,800.0	7,375.0	11,022.0	7,599.0	61.2	61.4	-131.65	3,309.3	-287.1	319.0	225.0	93.93	3.396		
10,900.0	7,375.0	11,122.0	7,599.0	62.9	63.2	-131.75	3,409.3	-288.2	318.4	222.0	96.38	3.304		
11,000.0	7,375.0	11,222.0	7,599.0	64.6	64.9	-131.84	3,509.3	-289.2	317.8	219.0	98.81	3.216		
11,100.0	7,375.0	11,322.0	7,599.0	66.3	66.6	-131.93	3,609.3	-290.3	317.2	216.0	101.24	3.133		
11,200.0	7,375.0	11,422.0	7,599.0	68.1	68.3	-132.03	3,709.3	-291.3	316.7	213.0	103.67	3.055		
11,300.0	7,375.0	11,522.0	7,599.0	69.8	70.0	-132.12	3,809.3	-292.4	316.1	210.0	106.09	2.979		
11,400.0	7,375.0	11,621.9	7,599.0	71.5	71.7	-132.22	3,909.3	-293.4	315.5	207.0	108.50	2.908		
11,500.0	7,375.0	11,721.9	7,599.0	73.2	73.5	-132.31	4,009.3	-294.5	314.9	204.0	110.91	2.839		
11,600.0	7,375.0	11,821.9	7,599.0	75.0	75.2	-132.41	4,109.2	-295.5	314.4	201.0	113.32	2.774		
11,700.0	7,375.0	11,921.9	7,599.0	76.7	76.9	-132.50	4,209.2	-296.6	313.8	198.1	115.71	2.712		
11,800.0	7,375.0	12,021.9	7,599.0	78.4	78.6	-132.60	4,309.2	-297.6	313.2	195.1	118.10	2.652		
11,900.0	7,375.0	12,121.9	7,599.0	80.1	80.4	-132.70	4,409.2	-298.7	312.6	192.1	120.49	2.595		
12,000.0	7,375.0	12,221.9	7,599.0	81.9	82.1	-132.79	4,509.2	-299.7	312.1	189.2	122.86	2.540		
12,100.0	7,375.0	12,321.9	7,599.0	83.6	83.8	-132.89	4,609.2	-300.8	311.5	186.3	125.23	2.487		
12,200.0	7,375.0	12,421.9	7,599.0	85.3	85.5	-132.99	4,709.2	-301.8	310.9	183.3	127.60	2.437		
12,300.0	7,375.0	12,521.9	7,599.0	87.1	87.3	-133.09	4,809.2	-302.9	310.4	180.4	129.95	2.388		
12,400.0	7,375.0	12,621.9	7,599.0	88.8	89.0	-133.18	4,909.2	-303.9	309.8	177.5	132.30	2.342		
12,500.0	7,375.0	12,721.9	7,599.0	90.6	90.7	-133.28	5,009.2	-304.9	309.2	174.6	134.64	2.297		
12,600.0	7,375.0	12,821.9	7,599.0	92.3	92.5	-133.38	5,109.2	-306.0	308.7	171.7	136.97	2.253		
12,700.0	7,375.0	12,921.9	7,599.0	94.0	94.2	-133.48	5,209.1	-307.0	308.1	168.8	139.29	2.212		
12,800.0	7,375.0	13,021.9	7,599.0	95.8	95.9	-133.58	5,309.1	-308.1	307.5	165.9	141.61	2.172		
12,900.0	7,375.0	13,121.9	7,599.0	97.5	97.7	-133.68	5,409.1	-309.1	307.0	163.0	143.91	2.133		
13,000.0	7,375.0	13,221.9	7,599.0	99.2	99.4	-133.78	5,509.1	-310.2	306.4	160.2	146.21	2.096		
13,100.0	7,375.0	13,321.9	7,599.0	101.0	101.1	-133.88	5,609.1	-311.2	305.8	157.3	148.50	2.060		
13,200.0	7,375.0	13,421.9	7,599.0	102.7	102.9	-133.98	5,709.1	-312.3	305.3	154.5	150.78	2.025		
13,300.0	7,375.0	13,521.9	7,599.0	104.5	104.6	-134.09	5,809.1	-313.3	304.7	151.7	153.05	1.991		
13,400.0	7,375.0	13,621.9	7,599.0	106.2	106.4	-134.19	5,909.1	-314.4	304.2	148.8	155.31	1.958		
13,500.0	7,375.0	13,721.9	7,599.0	107.9	108.1	-134.29	6,009.1	-315.4	303.6	146.0	157.57	1.927		
13,600.0	7,375.0	13,821.9	7,599.0	109.7	109.8	-134.39	6,109.1	-316.5	303.0	143.2	159.81	1.896		
13,700.0	7,375.0	13,921.9	7,599.0	111.4	111.6	-134.50	6,209.1	-317.5	302.5	140.4	162.05	1.867		
13,800.0	7,375.0	14,021.9	7,599.0	113.2	113.3	-134.60	6,309.1	-318.6	301.9	137.7	164.27	1.838		
13,900.0	7,375.0	14,121.9	7,599.0	114.9	115.1	-134.70	6,409.0	-319.6	301.4	134.9	166.49	1.810		
14,000.0	7,375.0	14,221.9	7,599.0	116.7	116.8	-134.81	6,509.0	-320.7	300.8	132.1	168.70	1.783		
14,100.0	7,375.0	14,321.9	7,599.0	118.4	118.5	-134.91	6,609.0	-321.7	300.3	129.4	170.89	1.757		
14,200.0	7,375.0	14,421.9	7,599.0	120.1	120.3	-135.02	6,709.0	-322.8	299.7	126.6	173.08	1.732		
14,300.0	7,375.0	14,521.9	7,599.0	121.9	122.0	-135.12	6,809.0	-323.8	299.2	123.9	175.26	1.707		
14,400.0	7,375.0	14,621.9	7,599.0	123.6	123.8	-135.23	6,909.0	-324.8	298.6	121.2	177.42	1.683		
14,500.0	7,375.0	14,721.9	7,599.0	125.4	125.5	-135.33	7,009.0	-325.9	298.1	118.5	179.58	1.660		
14,600.0	7,375.0	14,821.9	7,599.0	127.1	127.3	-135.44	7,109.0	-326.9	297.5	115.8	181.73	1.637		
14,700.0	7,375.0	14,921.8	7,599.0	128.9	129.0	-135.55	7,209.0	-328.0	297.0	113.1	183.86	1.615		
14,800.0	7,375.0	15,021.8	7,599.0	130.6	130.7	-135.66	7,309.0	-329.0	296.4	110.5	185.99	1.594		
14,900.0	7,375.0	15,121.8	7,599.0	132.4	132.5	-135.76	7,409.0	-330.1	295.9	107.8	188.10	1.573		
15,000.0	7,375.0	15,221.8	7,599.0	134.1	134.2	-135.87	7,509.0	-331.1	295.4	105.2	190.21	1.553		
15,094.7	7,375.0	15,316.6	7,599.0	135.8	135.9	-135.97	7,603.7	-332.1	294.8	102.7	192.19	1.534 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	9.0	9.0	0.0	0.0	89.93	0.0	10.1	10.1					
100.0	100.0	109.0	109.0	0.2	0.1	89.93	0.0	10.1	10.1	9.8	0.30	33.735		
200.0	200.0	209.0	209.0	0.3	0.3	89.93	0.0	10.1	10.1	9.4	0.65	15.549		
300.0	300.0	309.0	309.0	0.5	0.5	89.93	0.0	10.1	10.1	9.1	1.00	10.103		
400.0	400.0	409.0	409.0	0.7	0.7	89.93	0.0	10.1	10.1	8.7	1.35	7.482		
463.4	463.4	472.4	472.4	0.8	0.8	89.93	0.0	10.1	10.1	8.5	1.57	6.426 CC		
500.0	500.0	509.0	509.0	0.8	0.8	89.97	0.0	10.1	10.1	8.4	1.69	5.941		
600.0	600.0	609.0	608.9	1.0	1.0	95.62	-1.0	10.2	10.3	8.2	2.04	5.034 ES		
700.0	700.0	708.9	708.8	1.2	1.2	-88.42	-3.7	10.7	11.3	8.9	2.40	4.709		
800.0	800.0	808.7	808.6	1.4	1.4	-81.91	-8.2	11.5	13.2	10.4	2.75	4.783		
900.0	899.9	908.7	908.4	1.6	1.6	-80.72	-13.5	12.4	15.3	12.2	3.12	4.920		
1,000.0	999.7	1,008.7	1,008.2	1.7	1.8	-84.51	-18.8	13.3	17.3	13.8	3.50	4.959		
1,100.0	1,099.5	1,108.7	1,108.1	1.9	2.0	-87.93	-24.2	14.2	19.4	15.5	3.88	4.998		
1,200.0	1,199.3	1,208.6	1,207.9	2.1	2.1	-90.69	-29.5	15.1	21.5	17.2	4.26	5.038		
1,300.0	1,299.2	1,308.6	1,307.7	2.3	2.3	-92.96	-34.8	16.0	23.6	19.0	4.65	5.077		
1,400.0	1,399.0	1,408.6	1,407.6	2.5	2.5	-94.85	-40.1	16.9	25.8	20.7	5.04	5.115		
1,500.0	1,498.8	1,508.6	1,507.4	2.7	2.7	-96.44	-45.5	17.8	28.0	22.5	5.43	5.150		
1,600.0	1,598.6	1,608.5	1,607.2	2.9	2.9	-97.80	-50.8	18.7	30.2	24.4	5.82	5.182		
1,700.0	1,698.5	1,708.5	1,707.0	3.1	3.1	-98.97	-56.1	19.6	32.4	26.2	6.22	5.212		
1,800.0	1,798.3	1,808.5	1,806.9	3.3	3.3	-100.00	-61.4	20.5	34.6	28.0	6.61	5.240		
1,900.0	1,898.1	1,908.4	1,906.7	3.5	3.5	-100.90	-66.7	21.5	36.9	29.9	7.00	5.266		
2,000.0	1,997.9	2,008.4	2,006.5	3.7	3.7	-101.69	-72.1	22.4	39.1	31.7	7.40	5.290		
2,100.0	2,097.8	2,108.4	2,106.3	3.9	3.9	-102.40	-77.4	23.3	41.4	33.6	7.79	5.312		
2,200.0	2,197.6	2,208.4	2,206.2	4.1	4.1	-103.04	-82.7	24.2	43.7	35.5	8.19	5.332		
2,300.0	2,297.4	2,308.3	2,306.0	4.3	4.3	-103.61	-88.0	25.1	45.9	37.4	8.58	5.351		
2,400.0	2,397.2	2,408.3	2,405.8	4.5	4.5	-104.13	-93.4	26.0	48.2	39.2	8.98	5.369		
2,500.0	2,497.1	2,508.3	2,505.7	4.7	4.7	-104.60	-98.7	26.9	50.5	41.1	9.38	5.385		
2,600.0	2,596.9	2,608.3	2,605.5	4.9	4.9	-105.03	-104.0	27.8	52.8	43.0	9.77	5.401		
2,700.0	2,696.7	2,708.2	2,705.3	5.1	5.1	-105.42	-109.3	28.7	55.1	44.9	10.17	5.415		
2,800.0	2,796.5	2,808.2	2,805.1	5.3	5.3	-105.79	-114.7	29.6	57.3	46.8	10.56	5.429		
2,900.0	2,896.3	2,908.2	2,905.0	5.5	5.5	-106.12	-120.0	30.5	59.6	48.7	10.96	5.442		
3,000.0	2,996.2	3,008.2	3,004.8	5.7	5.7	-106.44	-125.3	31.4	61.9	50.6	11.35	5.454		
3,100.0	3,096.0	3,108.1	3,104.6	5.9	5.9	-106.72	-130.6	32.3	64.2	52.5	11.75	5.465		
3,200.0	3,195.8	3,208.1	3,204.4	6.1	6.1	-106.99	-136.0	33.3	66.5	54.4	12.15	5.475		
3,300.0	3,295.6	3,308.1	3,304.3	6.3	6.3	-107.24	-141.3	34.2	68.8	56.3	12.54	5.486		
3,400.0	3,395.5	3,408.0	3,404.1	6.5	6.5	-107.48	-146.6	35.1	71.1	58.2	12.94	5.495		
3,500.0	3,495.3	3,508.0	3,503.9	6.7	6.7	-107.70	-151.9	36.0	73.4	60.1	13.34	5.504		
3,600.0	3,595.1	3,608.0	3,603.8	6.9	6.9	-107.91	-157.2	36.9	75.7	62.0	13.73	5.513		
3,700.0	3,694.9	3,708.0	3,703.6	7.1	7.1	-108.10	-162.6	37.8	78.0	63.9	14.13	5.521		
3,800.0	3,794.8	3,807.9	3,803.4	7.3	7.3	-108.28	-167.9	38.7	80.3	65.8	14.52	5.529		
3,900.0	3,894.6	3,907.9	3,903.2	7.5	7.5	-108.46	-173.2	39.6	82.6	67.7	14.92	5.536		
4,000.0	3,994.4	4,007.9	4,003.1	7.7	7.7	-108.62	-178.5	40.5	84.9	69.6	15.32	5.543		
4,100.0	4,094.2	4,107.9	4,102.9	7.9	7.9	-108.78	-183.9	41.4	87.2	71.5	15.71	5.550		
4,200.0	4,194.1	4,207.8	4,202.7	8.1	8.1	-108.92	-189.2	42.3	89.5	73.4	16.11	5.556		
4,300.0	4,293.9	4,307.8	4,302.5	8.3	8.3	-109.06	-194.5	43.2	91.8	75.3	16.51	5.562		
4,400.0	4,393.7	4,407.8	4,402.4	8.6	8.4	-109.19	-199.8	44.1	94.1	77.2	16.90	5.568		
4,500.0	4,493.5	4,507.8	4,502.2	8.8	8.6	-109.32	-205.2	45.1	96.4	79.1	17.30	5.574		
4,600.0	4,593.4	4,607.7	4,602.0	9.0	8.8	-109.44	-210.5	46.0	98.7	81.0	17.70	5.579		
4,700.0	4,693.2	4,707.7	4,701.9	9.2	9.0	-109.56	-215.8	46.9	101.0	82.9	18.09	5.585		
4,800.0	4,793.0	4,807.7	4,801.7	9.4	9.2	-109.67	-221.1	47.8	103.3	84.9	18.49	5.590		
4,900.0	4,892.8	4,907.6	4,901.5	9.6	9.4	-109.77	-226.5	48.7	105.7	86.8	18.89	5.594		
5,000.0	4,992.6	5,007.6	5,001.3	9.8	9.6	-109.87	-231.8	49.6	108.0	88.7	19.28	5.599		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,092.5	5,107.6	5,101.2	10.0	9.8	-109.97	-237.1	50.5	110.3	90.6	19.68	5.603		
5,200.0	5,192.3	5,207.6	5,201.0	10.2	10.0	-110.06	-242.4	51.4	112.6	92.5	20.08	5.608		
5,300.0	5,292.1	5,307.5	5,300.8	10.4	10.2	-110.15	-247.7	52.3	114.9	94.4	20.47	5.612		
5,400.0	5,391.9	5,407.5	5,400.6	10.6	10.4	-110.24	-253.1	53.2	117.2	96.3	20.87	5.616		
5,500.0	5,491.8	5,507.5	5,500.5	10.8	10.6	-110.32	-258.4	54.1	119.5	98.2	21.26	5.620		
5,600.0	5,591.6	5,607.5	5,600.3	11.0	10.8	-110.40	-263.7	55.0	121.8	100.1	21.66	5.623		
5,700.0	5,691.4	5,707.4	5,700.1	11.2	11.0	-110.47	-269.0	56.0	124.1	102.1	22.06	5.627		
5,800.0	5,791.2	5,807.4	5,800.0	11.4	11.2	-110.55	-274.4	56.9	126.4	104.0	22.45	5.630		
5,900.0	5,891.1	5,907.4	5,899.8	11.6	11.4	-110.62	-279.7	57.8	128.7	105.9	22.85	5.634		
6,000.0	5,990.9	6,007.4	5,999.6	11.8	11.6	-110.68	-285.0	58.7	131.0	107.8	23.25	5.637		
6,100.0	6,090.7	6,107.3	6,099.4	12.0	11.8	-110.75	-290.3	59.6	133.4	109.7	23.64	5.640		
6,200.0	6,190.5	6,207.3	6,199.3	12.2	12.0	-110.81	-295.7	60.5	135.7	111.6	24.04	5.643		
6,300.0	6,290.4	6,307.3	6,299.1	12.4	12.2	-110.87	-301.0	61.4	138.0	113.5	24.44	5.646		
6,400.0	6,390.2	6,407.2	6,398.9	12.6	12.4	-110.93	-306.3	62.3	140.3	115.5	24.83	5.649		
6,500.0	6,490.0	6,507.2	6,498.7	12.8	12.6	-110.99	-311.6	63.2	142.6	117.4	25.23	5.652		
6,600.0	6,589.8	6,607.2	6,598.6	13.0	12.8	-111.05	-317.0	64.1	144.9	119.3	25.63	5.655		
6,700.0	6,689.7	6,707.2	6,698.4	13.2	13.0	-111.10	-322.3	65.0	147.2	121.2	26.02	5.657		
6,800.0	6,789.5	6,807.1	6,798.2	13.4	13.2	-129.22	-327.6	65.9	149.5	123.1	26.42	5.658		
6,900.0	6,889.1	6,906.3	6,897.2	13.5	13.4	91.25	-332.9	66.8	150.5	123.8	26.74	5.628		
7,000.0	6,986.2	7,002.7	6,993.6	13.4	13.6	98.61	-337.5	67.7	153.6	126.7	26.86	5.718		
7,100.0	7,077.6	7,103.6	7,093.9	13.3	13.7	108.63	-329.6	68.6	162.9	136.4	26.47	6.154		
7,200.0	7,160.6	7,211.2	7,197.8	13.1	13.6	117.66	-301.9	69.6	177.4	151.8	25.59	6.933		
7,300.0	7,232.8	7,326.8	7,301.5	13.0	13.5	125.12	-251.2	70.5	194.8	170.4	24.40	7.984		
7,400.0	7,291.8	7,451.3	7,399.2	13.0	13.3	130.95	-174.6	71.4	212.6	189.4	23.17	9.176		
7,500.0	7,336.0	7,584.8	7,483.1	13.2	13.3	135.26	-71.1	72.2	228.4	206.2	22.22	10.278		
7,600.0	7,364.0	7,726.5	7,543.4	13.5	13.6	138.14	56.7	72.7	240.0	218.1	21.86	10.978		
7,700.0	7,374.9	7,873.9	7,571.0	14.1	14.3	139.66	201.1	73.0	245.8	223.5	22.33	11.006		
7,800.0	7,375.0	7,985.2	7,572.0	14.9	15.1	139.91	312.4	73.0	245.8	222.4	23.38	10.511		
7,900.0	7,375.0	8,085.2	7,572.0	15.8	16.0	140.03	412.4	73.0	245.3	220.7	24.57	9.984		
8,000.0	7,375.0	8,185.2	7,572.0	16.8	17.1	140.16	512.4	73.0	244.9	219.0	25.90	9.456		
8,100.0	7,375.0	8,285.2	7,572.0	18.0	18.2	140.28	612.4	73.0	244.4	217.1	27.33	8.942		
8,200.0	7,375.0	8,385.2	7,572.0	19.3	19.5	140.41	712.4	73.0	244.0	215.1	28.87	8.451		
8,300.0	7,375.0	8,485.2	7,572.0	20.6	20.8	140.53	812.4	73.0	243.5	213.0	30.48	7.990		
8,400.0	7,375.0	8,585.2	7,572.0	22.0	22.2	140.66	912.4	73.0	243.1	210.9	32.15	7.561		
8,500.0	7,375.0	8,685.2	7,572.0	23.4	23.6	140.79	1,012.4	73.0	242.6	208.8	33.88	7.163		
8,600.0	7,375.0	8,785.2	7,572.0	24.9	25.1	140.92	1,112.4	73.0	242.2	206.6	35.64	6.795		
8,700.0	7,375.0	8,885.2	7,572.0	26.4	26.6	141.04	1,212.4	73.0	241.8	204.3	37.44	6.457		
8,800.0	7,375.0	8,985.2	7,572.0	27.9	28.1	141.17	1,312.4	73.0	241.3	202.1	39.27	6.146		
8,900.0	7,375.0	9,085.2	7,572.0	29.5	29.6	141.30	1,412.4	73.0	240.9	199.8	41.12	5.859		
9,000.0	7,375.0	9,185.2	7,572.0	31.1	31.2	141.43	1,512.4	73.0	240.5	197.5	42.98	5.595		
9,100.0	7,375.0	9,285.2	7,572.0	32.7	32.8	141.56	1,612.4	73.0	240.0	195.2	44.86	5.351		
9,200.0	7,375.0	9,385.2	7,572.0	34.3	34.4	141.69	1,712.4	73.0	239.6	192.8	46.74	5.126		
9,300.0	7,375.0	9,485.2	7,572.0	35.9	36.1	142.03	1,812.4	73.0	238.5	190.0	48.49	4.920		
9,400.0	7,375.0	9,585.1	7,572.0	37.6	37.7	142.69	1,912.3	73.0	236.4	186.5	49.93	4.736		
9,500.0	7,375.0	9,685.0	7,572.0	39.2	39.3	143.37	2,012.3	73.0	234.3	183.0	51.30	4.568		
9,600.0	7,375.0	9,785.0	7,572.0	40.9	41.0	144.06	2,112.2	73.0	232.3	179.7	52.61	4.415		
9,700.0	7,375.0	9,884.9	7,572.0	42.5	42.6	144.76	2,212.1	73.0	230.2	176.4	53.86	4.275		
9,800.0	7,375.0	9,984.9	7,572.0	44.2	44.3	145.47	2,312.1	73.0	228.2	173.2	55.03	4.148		
9,900.0	7,375.0	10,084.8	7,572.0	45.9	46.0	146.20	2,412.0	73.0	226.3	170.2	56.12	4.032		
10,000.0	7,375.0	10,184.7	7,572.0	47.6	47.7	146.94	2,512.0	73.0	224.4	167.2	57.13	3.927		
10,100.0	7,375.0	10,284.7	7,572.0	49.3	49.4	147.70	2,611.9	73.0	222.5	164.4	58.06	3.832		
10,200.0	7,375.0	10,384.6	7,572.0	50.9	51.0	148.26	2,711.9	73.0	221.1	161.9	59.15	3.737		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,275.2	7,375.0	10,459.9	7,572.0	52.2	52.3	148.40	2,787.1	73.0	220.7	160.4	60.30	3.660		
10,300.0	7,375.0	10,484.6	7,572.0	52.6	52.7	148.34	2,811.9	73.0	220.9	160.1	60.82	3.632		
10,400.0	7,375.0	10,584.6	7,572.0	54.3	54.4	148.34	2,911.9	73.0	220.9	158.3	62.61	3.528		
10,431.2	7,375.0	10,615.8	7,572.0	54.9	55.0	148.32	2,943.0	73.0	220.9	157.7	63.18	3.497		
10,500.0	7,375.0	10,684.6	7,572.0	56.0	56.1	148.25	3,011.9	73.0	221.1	156.6	64.48	3.429		
10,600.0	7,375.0	10,784.6	7,572.0	57.8	57.9	147.86	3,111.8	73.0	222.0	155.2	66.86	3.321		
10,700.0	7,375.0	10,884.6	7,572.0	59.5	59.6	147.46	3,211.8	73.0	223.0	153.7	69.28	3.219		
10,800.0	7,375.0	10,984.6	7,572.0	61.2	61.3	147.07	3,311.8	73.0	224.0	152.3	71.74	3.123		
10,900.0	7,375.0	11,084.6	7,572.0	62.9	63.0	146.68	3,411.8	73.0	225.0	150.8	74.23	3.031		
11,000.0	7,375.0	11,184.6	7,572.0	64.6	64.7	146.29	3,511.8	73.0	226.0	149.3	76.76	2.944		
11,100.0	7,375.0	11,284.5	7,572.0	66.3	66.4	145.91	3,611.8	73.0	227.0	147.7	79.32	2.862		
11,200.0	7,375.0	11,384.5	7,572.0	68.1	68.1	145.53	3,711.7	73.0	228.1	146.1	81.92	2.784		
11,300.0	7,375.0	11,484.5	7,572.0	69.8	69.9	145.15	3,811.7	73.0	229.1	144.6	84.54	2.710		
11,400.0	7,375.0	11,584.5	7,572.0	71.5	71.6	144.78	3,911.7	73.0	230.1	142.9	87.20	2.639		
11,500.0	7,375.0	11,684.5	7,572.0	73.2	73.3	144.41	4,011.7	73.0	231.2	141.3	89.89	2.572		
11,600.0	7,375.0	11,784.5	7,572.0	75.0	75.0	144.04	4,111.7	73.0	232.3	139.7	92.60	2.508		
11,700.0	7,375.0	11,884.4	7,572.0	76.7	76.8	143.68	4,211.7	73.0	233.3	138.0	95.35	2.447		
11,800.0	7,375.0	11,984.4	7,572.0	78.4	78.5	143.32	4,311.6	73.0	234.4	136.3	98.12	2.389		
11,900.0	7,375.0	12,084.4	7,572.0	80.1	80.2	142.96	4,411.6	73.0	235.5	134.6	100.92	2.334		
12,000.0	7,375.0	12,184.4	7,572.0	81.9	81.9	142.61	4,511.6	73.0	236.6	132.9	103.75	2.281		
12,100.0	7,375.0	12,284.4	7,572.0	83.6	83.7	142.26	4,611.6	73.0	237.7	131.1	106.60	2.230		
12,200.0	7,375.0	12,384.4	7,572.0	85.3	85.4	141.92	4,711.6	73.0	238.9	129.4	109.47	2.182		
12,300.0	7,375.0	12,484.3	7,572.0	87.1	87.1	141.57	4,811.6	73.0	240.0	127.6	112.37	2.136		
12,400.0	7,375.0	12,584.3	7,572.0	88.8	88.9	141.23	4,911.5	73.0	241.1	125.8	115.29	2.091		
12,500.0	7,375.0	12,684.3	7,572.0	90.6	90.6	140.90	5,011.5	73.0	242.3	124.0	118.24	2.049		
12,600.0	7,375.0	12,784.3	7,572.0	92.3	92.3	140.56	5,111.5	73.0	243.4	122.2	121.21	2.008		
12,700.0	7,375.0	12,884.3	7,572.0	94.0	94.1	140.23	5,211.5	73.0	244.6	120.4	124.20	1.969		
12,800.0	7,375.0	12,984.3	7,572.0	95.8	95.8	139.91	5,311.5	73.0	245.8	118.6	127.21	1.932		
12,900.0	7,375.0	13,084.2	7,572.0	97.5	97.5	139.58	5,411.5	73.0	247.0	116.7	130.24	1.896		
13,000.0	7,375.0	13,184.2	7,572.0	99.2	99.3	139.26	5,511.4	73.0	248.1	114.9	133.29	1.862		
13,100.0	7,375.0	13,284.2	7,572.0	101.0	101.0	138.94	5,611.4	73.0	249.3	113.0	136.36	1.829		
13,200.0	7,375.0	13,384.2	7,572.0	102.7	102.8	138.63	5,711.4	73.0	250.5	111.1	139.45	1.797		
13,300.0	7,375.0	13,484.2	7,572.0	104.5	104.5	138.32	5,811.4	73.0	251.7	109.2	142.55	1.766		
13,400.0	7,375.0	13,584.2	7,572.0	106.2	106.2	138.01	5,911.4	73.0	253.0	107.3	145.68	1.736		
13,500.0	7,375.0	13,684.1	7,572.0	107.9	108.0	137.70	6,011.4	73.0	254.2	105.4	148.82	1.708		
13,600.0	7,375.0	13,784.1	7,572.0	109.7	109.7	137.40	6,111.3	73.0	255.4	103.4	151.97	1.681		
13,700.0	7,375.0	13,884.1	7,572.0	111.4	111.5	137.10	6,211.3	73.0	256.7	101.5	155.15	1.654		
13,800.0	7,375.0	13,984.1	7,572.0	113.2	113.2	136.80	6,311.3	73.0	257.9	99.6	158.34	1.629		
13,900.0	7,375.0	14,084.1	7,572.0	114.9	114.9	136.51	6,411.3	73.0	259.2	97.6	161.54	1.604		
14,000.0	7,375.0	14,184.1	7,572.0	116.7	116.7	136.22	6,511.3	73.0	260.4	95.7	164.76	1.581		
14,100.0	7,375.0	14,284.0	7,572.0	118.4	118.4	135.93	6,611.3	73.0	261.7	93.7	167.99	1.558		
14,200.0	7,375.0	14,384.0	7,572.0	120.1	120.2	135.64	6,711.2	73.0	263.0	91.7	171.24	1.536		
14,300.0	7,375.0	14,484.0	7,572.0	121.9	121.9	135.36	6,811.2	73.0	264.2	89.7	174.50	1.514		
14,400.0	7,375.0	14,584.0	7,572.0	123.6	123.7	135.08	6,911.2	73.0	265.5	87.7	177.78	1.494 Level 3		
14,500.0	7,375.0	14,684.0	7,572.0	125.4	125.4	134.80	7,011.2	73.0	266.8	85.8	181.06	1.474 Level 3		
14,600.0	7,375.0	14,784.0	7,572.0	127.1	127.2	134.53	7,111.2	73.0	268.1	83.8	184.36	1.454 Level 3		
14,700.0	7,375.0	14,883.9	7,572.0	128.9	128.9	134.26	7,211.2	73.0	269.4	81.7	187.67	1.436 Level 3		
14,800.0	7,375.0	14,983.9	7,572.0	130.6	130.6	133.99	7,311.1	73.0	270.7	79.7	190.99	1.417 Level 3		
14,900.0	7,375.0	15,083.9	7,572.0	132.4	132.4	133.72	7,411.1	73.0	272.0	77.7	194.33	1.400 Level 3		
15,000.0	7,375.0	15,183.9	7,572.0	134.1	134.1	133.46	7,511.1	73.0	273.4	75.7	197.67	1.383 Level 3		
15,094.7	7,375.0	15,278.2	7,572.0	135.8	135.8	133.21	7,605.5	73.0	274.6	73.8	200.85	1.367 Level 3, SF		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	9.0	9.0	0.0	0.0	91.01	-0.4	19.9	19.9					
100.0	100.0	109.0	109.0	0.2	0.1	91.01	-0.4	19.9	19.9	19.6	0.30	66.542		
200.0	200.0	209.0	209.0	0.3	0.3	91.01	-0.4	19.9	19.9	19.2	0.65	30.670		
263.4	263.4	272.4	272.4	0.4	0.4	91.01	-0.4	19.9	19.9	19.0	0.87	22.861 CC		
300.0	300.0	309.0	309.0	0.5	0.5	91.03	-0.4	19.9	19.9	18.9	1.00	19.932 ES		
400.0	400.0	408.8	408.8	0.7	0.7	93.37	-1.2	20.4	20.5	19.1	1.35	15.210		
500.0	500.0	508.5	508.4	0.8	0.8	99.01	-3.5	22.0	22.3	20.6	1.70	13.116		
600.0	600.0	608.1	607.9	1.0	1.0	106.35	-7.2	24.5	25.6	23.5	2.05	12.454		
700.0	700.0	707.6	707.2	1.2	1.2	-81.11	-12.3	28.0	30.5	28.1	2.40	12.692		
800.0	800.0	807.4	806.9	1.4	1.4	-79.10	-18.0	31.9	35.9	33.1	2.76	12.991		
900.0	899.9	907.3	906.5	1.6	1.6	-80.00	-23.7	35.8	40.9	37.8	3.13	13.087		
1,000.0	999.7	1,007.2	1,006.1	1.7	1.8	-82.48	-29.4	39.6	45.8	42.3	3.50	13.068		
1,100.0	1,099.5	1,107.0	1,105.7	1.9	2.0	-84.67	-35.1	43.5	50.7	46.8	3.88	13.049		
1,200.0	1,199.3	1,206.9	1,205.4	2.1	2.3	-86.46	-40.7	47.4	55.7	51.4	4.27	13.035		
1,300.0	1,299.2	1,306.8	1,305.0	2.3	2.5	-87.96	-46.4	51.3	60.7	56.0	4.66	13.024		
1,400.0	1,399.0	1,406.6	1,404.6	2.5	2.7	-89.23	-52.1	55.1	65.7	60.7	5.05	13.017		
1,500.0	1,498.8	1,506.5	1,504.2	2.7	2.9	-90.32	-57.8	59.0	70.8	65.4	5.44	13.011		
1,600.0	1,598.6	1,606.3	1,603.9	2.9	3.1	-91.26	-63.5	62.9	75.9	70.1	5.84	13.006		
1,700.0	1,698.5	1,706.2	1,703.5	3.1	3.3	-92.09	-69.2	66.8	81.0	74.8	6.23	13.003		
1,800.0	1,798.3	1,806.1	1,803.1	3.3	3.5	-92.81	-74.9	70.7	86.2	79.5	6.63	13.000		
1,900.0	1,898.1	1,905.9	1,902.7	3.5	3.7	-93.46	-80.5	74.5	91.3	84.3	7.03	12.998		
2,000.0	1,997.9	2,005.8	2,002.4	3.7	3.9	-94.03	-86.2	78.4	96.5	89.1	7.42	12.997		
2,100.0	2,097.8	2,105.7	2,102.0	3.9	4.1	-94.55	-91.9	82.3	101.7	93.8	7.82	12.996		
2,200.0	2,197.6	2,205.5	2,201.6	4.1	4.4	-95.01	-97.6	86.2	106.8	98.6	8.22	12.995		
2,300.0	2,297.4	2,305.4	2,301.2	4.3	4.6	-95.44	-103.3	90.0	112.0	103.4	8.62	12.995		
2,400.0	2,397.2	2,405.2	2,400.9	4.5	4.8	-95.82	-109.0	93.9	117.2	108.2	9.02	12.994		
2,500.0	2,497.1	2,505.1	2,500.5	4.7	5.0	-96.18	-114.7	97.8	122.4	113.0	9.42	12.994		
2,600.0	2,596.9	2,605.0	2,600.1	4.9	5.2	-96.50	-120.3	101.7	127.6	117.8	9.82	12.994		
2,700.0	2,696.7	2,704.8	2,699.7	5.1	5.4	-96.80	-126.0	105.5	132.8	122.6	10.22	12.994		
2,800.0	2,796.5	2,804.7	2,799.4	5.3	5.6	-97.08	-131.7	109.4	138.0	127.4	10.62	12.994		
2,900.0	2,896.3	2,904.6	2,899.0	5.5	5.8	-97.33	-137.4	113.3	143.2	132.2	11.02	12.995		
3,000.0	2,996.2	3,004.4	2,998.6	5.7	6.0	-97.57	-143.1	117.2	148.4	137.0	11.42	12.995		
3,100.0	3,096.0	3,104.3	3,098.2	5.9	6.3	-97.79	-148.8	121.1	153.6	141.8	11.82	12.995		
3,200.0	3,195.8	3,204.1	3,197.9	6.1	6.5	-98.00	-154.5	124.9	158.8	146.6	12.22	12.996		
3,300.0	3,295.6	3,304.0	3,297.5	6.3	6.7	-98.19	-160.1	128.8	164.0	151.4	12.62	12.996		
3,400.0	3,395.5	3,403.9	3,397.1	6.5	6.9	-98.38	-165.8	132.7	169.3	156.2	13.02	12.996		
3,500.0	3,495.3	3,503.7	3,496.7	6.7	7.1	-98.55	-171.5	136.6	174.5	161.1	13.42	12.997		
3,600.0	3,595.1	3,603.6	3,596.4	6.9	7.3	-98.71	-177.2	140.4	179.7	165.9	13.83	12.997		
3,700.0	3,694.9	3,703.5	3,696.0	7.1	7.5	-98.86	-182.9	144.3	184.9	170.7	14.23	12.998		
3,800.0	3,794.8	3,803.3	3,795.6	7.3	7.7	-99.01	-188.6	148.2	190.1	175.5	14.63	12.998		
3,900.0	3,894.6	3,903.2	3,895.2	7.5	7.9	-99.14	-194.3	152.1	195.4	180.3	15.03	12.998		
4,000.0	3,994.4	4,003.0	3,994.9	7.7	8.2	-99.27	-200.0	155.9	200.6	185.2	15.43	12.999		
4,100.0	4,094.2	4,102.9	4,094.5	7.9	8.4	-99.40	-205.6	159.8	205.8	190.0	15.83	12.999		
4,200.0	4,194.1	4,202.8	4,194.1	8.1	8.6	-99.51	-211.3	163.7	211.0	194.8	16.23	13.000		
4,300.0	4,293.9	4,302.6	4,293.7	8.3	8.8	-99.62	-217.0	167.6	216.3	199.6	16.64	13.000		
4,400.0	4,393.7	4,402.5	4,393.4	8.6	9.0	-99.73	-222.7	171.4	221.5	204.5	17.04	13.001		
4,500.0	4,493.5	4,502.4	4,493.0	8.8	9.2	-99.83	-228.4	175.3	226.7	209.3	17.44	13.001		
4,600.0	4,593.4	4,602.2	4,592.6	9.0	9.4	-99.93	-234.1	179.2	232.0	214.1	17.84	13.002		
4,700.0	4,693.2	4,702.1	4,692.2	9.2	9.6	-100.02	-239.8	183.1	237.2	218.9	18.24	13.002		
4,800.0	4,793.0	4,801.9	4,791.9	9.4	9.8	-100.11	-245.4	187.0	242.4	223.8	18.64	13.002		
4,900.0	4,892.8	4,901.8	4,891.5	9.6	10.1	-100.19	-251.1	190.8	247.6	228.6	19.05	13.003		
5,000.0	4,992.6	5,001.7	4,991.1	9.8	10.3	-100.27	-256.8	194.7	252.9	233.4	19.45	13.003		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,092.5	5,101.5	5,090.7	10.0	10.5	-100.35	-262.5	198.6	258.1	238.3	19.85	13.004		
5,200.0	5,192.3	5,201.4	5,190.4	10.2	10.7	-100.42	-268.2	202.5	263.3	243.1	20.25	13.004		
5,300.0	5,292.1	5,301.3	5,290.0	10.4	10.9	-100.49	-273.9	206.3	268.6	247.9	20.65	13.004		
5,400.0	5,391.9	5,401.1	5,389.6	10.6	11.1	-100.56	-279.6	210.2	273.8	252.8	21.06	13.005		
5,500.0	5,491.8	5,501.0	5,489.2	10.8	11.3	-100.63	-285.2	214.1	279.0	257.6	21.46	13.005		
5,600.0	5,591.6	5,600.8	5,588.9	11.0	11.5	-100.69	-290.9	218.0	284.3	262.4	21.86	13.005		
5,700.0	5,691.4	5,700.7	5,688.5	11.2	11.8	-100.76	-296.6	221.8	289.5	267.3	22.26	13.006		
5,800.0	5,791.2	5,800.6	5,788.1	11.4	12.0	-100.81	-302.3	225.7	294.8	272.1	22.66	13.006		
5,900.0	5,891.1	5,900.4	5,887.7	11.6	12.2	-100.87	-308.0	229.6	300.0	276.9	23.06	13.006		
6,000.0	5,990.9	6,000.3	5,987.4	11.8	12.4	-100.93	-313.7	233.5	305.2	281.8	23.47	13.007		
6,100.0	6,090.7	6,100.2	6,087.0	12.0	12.6	-100.98	-319.4	237.4	310.5	286.6	23.87	13.007		
6,200.0	6,190.5	6,200.0	6,186.6	12.2	12.8	-101.03	-325.0	241.2	315.7	291.4	24.27	13.007		
6,300.0	6,290.4	6,299.9	6,286.2	12.4	13.0	-101.08	-330.7	245.1	320.9	296.3	24.67	13.008		
6,400.0	6,390.2	6,399.7	6,385.9	12.6	13.2	-101.13	-336.4	249.0	326.2	301.1	25.07	13.008		
6,500.0	6,490.0	6,500.6	6,486.5	12.8	13.4	-102.45	-334.8	252.9	331.2	305.8	25.42	13.030		
6,600.0	6,589.8	6,596.3	6,580.3	13.0	13.4	-106.41	-317.1	256.5	337.1	311.4	25.68	13.128		
6,700.0	6,689.7	6,682.2	6,661.1	13.2	13.3	-111.98	-288.0	259.7	346.9	321.0	25.83	13.427		
6,800.0	6,789.5	6,756.8	6,727.0	13.4	13.2	-136.60	-253.2	262.3	364.3	338.4	25.91	14.061		
6,900.0	6,889.1	6,825.7	6,783.3	13.5	13.1	71.98	-213.7	264.4	387.9	362.1	25.79	15.043		
7,000.0	6,986.2	6,892.2	6,832.9	13.4	13.0	62.93	-169.5	266.4	414.0	388.6	25.42	16.285		
7,100.0	7,077.6	6,950.0	6,871.5	13.3	13.0	57.10	-126.6	267.9	440.3	415.4	24.84	17.723		
7,200.0	7,160.6	7,020.4	6,912.5	13.1	13.0	52.18	-69.4	269.5	464.6	440.6	24.03	19.338		
7,300.0	7,232.8	7,082.9	6,942.7	13.0	13.1	48.67	-14.7	270.7	486.0	462.8	23.17	20.974		
7,400.0	7,291.8	7,150.0	6,968.3	13.0	13.3	46.03	47.2	271.6	503.4	481.0	22.36	22.513		
7,500.0	7,336.0	7,200.0	6,982.7	13.2	13.4	44.43	95.1	272.2	516.0	494.2	21.83	23.637		
7,600.0	7,364.0	7,266.9	6,995.2	13.5	13.8	43.36	160.7	272.7	523.5	501.7	21.78	24.040		
7,700.0	7,374.9	7,327.6	6,999.8	14.1	14.2	43.04	221.3	272.9	525.7	503.4	22.29	23.580		
7,800.0	7,375.0	7,418.8	7,000.0	14.9	14.9	43.01	312.4	272.9	525.1	501.8	23.37	22.473		
7,900.0	7,375.0	7,518.7	7,000.0	15.8	15.8	42.95	412.4	272.9	524.6	500.0	24.66	21.278		
8,000.0	7,375.0	7,618.7	7,000.0	16.8	16.8	42.90	512.4	272.9	524.2	498.1	26.10	20.082		
8,100.0	7,375.0	7,718.7	7,000.0	18.0	18.0	42.84	612.4	272.9	523.7	496.0	27.68	18.923		
8,200.0	7,375.0	7,818.7	7,000.0	19.3	19.2	42.78	712.4	272.9	523.2	493.9	29.36	17.823		
8,300.0	7,375.0	7,918.7	7,000.0	20.6	20.6	42.73	812.4	272.9	522.8	491.6	31.13	16.794		
8,400.0	7,375.0	8,018.7	7,000.0	22.0	21.9	42.67	912.4	272.9	522.3	489.3	32.97	15.841		
8,500.0	7,375.0	8,118.7	7,000.0	23.4	23.4	42.62	1,012.4	272.9	521.8	486.9	34.87	14.963		
8,600.0	7,375.0	8,218.7	7,000.0	24.9	24.8	42.56	1,112.4	272.9	521.3	484.5	36.83	14.156		
8,700.0	7,375.0	8,318.7	7,000.0	26.4	26.4	42.50	1,212.4	272.9	520.9	482.0	38.82	13.416		
8,800.0	7,375.0	8,418.7	7,000.0	27.9	27.9	42.45	1,312.4	272.9	520.4	479.5	40.86	12.737		
8,900.0	7,375.0	8,518.7	7,000.0	29.5	29.5	42.39	1,412.4	272.9	519.9	477.0	42.92	12.115		
9,000.0	7,375.0	8,618.7	7,000.0	31.1	31.0	42.33	1,512.4	272.9	519.4	474.4	45.00	11.543		
9,100.0	7,375.0	8,718.7	7,000.0	32.7	32.6	42.27	1,612.4	272.9	519.0	471.9	47.10	11.018		
9,200.0	7,375.0	8,818.7	7,000.0	34.3	34.2	42.22	1,712.4	272.9	518.5	469.3	49.22	10.534		
9,300.0	7,375.0	8,918.7	7,000.0	35.9	35.9	42.07	1,812.4	272.9	517.4	466.1	51.29	10.087		
9,400.0	7,375.0	9,018.6	7,000.0	37.6	37.5	41.78	1,912.3	272.9	515.1	461.8	53.24	9.674		
9,500.0	7,375.0	9,118.6	7,000.0	39.2	39.2	41.49	2,012.3	272.9	512.7	457.6	55.18	9.292		
9,600.0	7,375.0	9,218.5	7,000.0	40.9	40.8	41.19	2,112.2	272.9	510.4	453.3	57.11	8.938		
9,700.0	7,375.0	9,318.5	7,000.0	42.5	42.5	40.90	2,212.1	272.9	508.1	449.1	59.02	8.610		
9,800.0	7,375.0	9,418.4	7,000.0	44.2	44.2	40.60	2,312.1	272.9	505.9	445.0	60.91	8.306		
9,900.0	7,375.0	9,518.3	7,000.0	45.9	45.8	40.30	2,412.0	272.9	503.6	440.8	62.77	8.023		
10,000.0	7,375.0	9,618.3	7,000.0	47.6	47.5	39.99	2,512.0	272.9	501.4	436.7	64.62	7.759		
10,100.0	7,375.0	9,718.2	7,000.0	49.3	49.2	39.69	2,611.9	272.9	499.1	432.7	66.44	7.513		
10,200.0	7,375.0	9,818.2	7,000.0	50.9	50.9	39.47	2,711.9	272.9	497.4	429.1	68.35	7.278		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,275.3	7,375.0	9,893.5	7,000.0	52.2	52.2	39.41	2,787.2	272.9	497.0	427.1	69.90	7.111		
10,300.0	7,375.0	9,918.2	7,000.0	52.6	52.6	39.44	2,811.9	272.9	497.2	426.7	70.46	7.056		
10,400.0	7,375.0	10,018.2	7,000.0	54.3	54.3	39.44	2,911.9	272.9	497.2	424.6	72.63	6.846		
10,431.1	7,375.0	10,049.3	7,000.0	54.9	54.8	39.44	2,943.0	272.9	497.3	424.0	73.30	6.784		
10,500.0	7,375.0	10,118.2	7,000.0	56.0	56.0	39.47	3,011.9	272.9	497.5	422.6	74.81	6.650		
10,600.0	7,375.0	10,218.2	7,000.0	57.8	57.7	39.63	3,111.8	272.9	498.6	421.4	77.20	6.459		
10,700.0	7,375.0	10,318.1	7,000.0	59.5	59.4	39.79	3,211.8	272.9	499.8	420.2	79.62	6.277		
10,800.0	7,375.0	10,418.1	7,000.0	61.2	61.1	39.95	3,311.8	272.9	501.0	418.9	82.05	6.106		
10,900.0	7,375.0	10,518.1	7,000.0	62.9	62.8	40.11	3,411.8	272.9	502.1	417.6	84.49	5.943		
11,000.0	7,375.0	10,618.1	7,000.0	64.6	64.6	40.27	3,511.8	272.9	503.3	416.3	86.96	5.788		
11,100.0	7,375.0	10,718.1	7,000.0	66.3	66.3	40.43	3,611.8	272.9	504.5	415.0	89.44	5.641		
11,200.0	7,375.0	10,818.1	7,000.0	68.1	68.0	40.59	3,711.7	272.9	505.7	413.7	91.93	5.500		
11,300.0	7,375.0	10,918.0	7,000.0	69.8	69.7	40.74	3,811.7	272.9	506.9	412.4	94.44	5.367		
11,400.0	7,375.0	11,018.0	7,000.0	71.5	71.4	40.90	3,911.7	272.9	508.1	411.1	96.97	5.239		
11,500.0	7,375.0	11,118.0	7,000.0	73.2	73.2	41.05	4,011.7	272.9	509.2	409.7	99.51	5.118		
11,600.0	7,375.0	11,218.0	7,000.0	75.0	74.9	41.21	4,111.7	272.9	510.5	408.4	102.06	5.001		
11,700.0	7,375.0	11,318.0	7,000.0	76.7	76.6	41.36	4,211.7	272.9	511.7	407.0	104.63	4.890		
11,800.0	7,375.0	11,418.0	7,000.0	78.4	78.4	41.51	4,311.6	272.9	512.9	405.6	107.21	4.784		
11,900.0	7,375.0	11,517.9	7,000.0	80.1	80.1	41.67	4,411.6	272.9	514.1	404.3	109.81	4.682		
12,000.0	7,375.0	11,617.9	7,000.0	81.9	81.8	41.82	4,511.6	272.9	515.3	402.9	112.42	4.584		
12,100.0	7,375.0	11,717.9	7,000.0	83.6	83.5	41.97	4,611.6	272.9	516.5	401.5	115.04	4.490		
12,200.0	7,375.0	11,817.9	7,000.0	85.3	85.3	42.12	4,711.6	272.9	517.7	400.1	117.67	4.400		
12,300.0	7,375.0	11,917.9	7,000.0	87.1	87.0	42.27	4,811.6	272.9	519.0	398.6	120.32	4.313		
12,400.0	7,375.0	12,017.9	7,000.0	88.8	88.7	42.42	4,911.5	272.9	520.2	397.2	122.98	4.230		
12,500.0	7,375.0	12,117.8	7,000.0	90.6	90.5	42.57	5,011.5	272.9	521.4	395.8	125.65	4.150		
12,600.0	7,375.0	12,217.8	7,000.0	92.3	92.2	42.71	5,111.5	272.9	522.7	394.3	128.34	4.073		
12,700.0	7,375.0	12,317.8	7,000.0	94.0	94.0	42.86	5,211.5	272.9	523.9	392.9	131.03	3.998		
12,800.0	7,375.0	12,417.8	7,000.0	95.8	95.7	43.00	5,311.5	272.9	525.1	391.4	133.74	3.927		
12,900.0	7,375.0	12,517.8	7,000.0	97.5	97.4	43.15	5,411.5	272.9	526.4	389.9	136.46	3.857		
13,000.0	7,375.0	12,617.8	7,000.0	99.2	99.2	43.29	5,511.4	272.9	527.6	388.4	139.19	3.791		
13,100.0	7,375.0	12,717.7	7,000.0	101.0	100.9	43.44	5,611.4	272.9	528.9	387.0	141.93	3.726		
13,200.0	7,375.0	12,817.7	7,000.0	102.7	102.6	43.58	5,711.4	272.9	530.1	385.5	144.68	3.664		
13,300.0	7,375.0	12,917.7	7,000.0	104.5	104.4	43.72	5,811.4	272.9	531.4	384.0	147.45	3.604		
13,400.0	7,375.0	13,017.7	7,000.0	106.2	106.1	43.87	5,911.4	272.9	532.7	382.4	150.22	3.546		
13,500.0	7,375.0	13,117.7	7,000.0	107.9	107.9	44.01	6,011.4	272.9	533.9	380.9	153.00	3.490		
13,600.0	7,375.0	13,217.7	7,000.0	109.7	109.6	44.15	6,111.3	272.9	535.2	379.4	155.80	3.435		
13,700.0	7,375.0	13,317.6	7,000.0	111.4	111.3	44.29	6,211.3	272.9	536.5	377.9	158.60	3.382		
13,800.0	7,375.0	13,417.6	7,000.0	113.2	113.1	44.43	6,311.3	272.9	537.8	376.3	161.42	3.331		
13,900.0	7,375.0	13,517.6	7,000.0	114.9	114.8	44.57	6,411.3	272.9	539.0	374.8	164.24	3.282		
14,000.0	7,375.0	13,617.6	7,000.0	116.7	116.6	44.70	6,511.3	272.9	540.3	373.2	167.08	3.234		
14,100.0	7,375.0	13,717.6	7,000.0	118.4	118.3	44.84	6,611.3	272.9	541.6	371.7	169.92	3.187		
14,200.0	7,375.0	13,817.6	7,000.0	120.1	120.1	44.98	6,711.2	272.9	542.9	370.1	172.78	3.142		
14,300.0	7,375.0	13,917.5	7,000.0	121.9	121.8	45.11	6,811.2	272.9	544.2	368.5	175.64	3.098		
14,400.0	7,375.0	14,017.5	7,000.0	123.6	123.5	45.25	6,911.2	272.9	545.5	367.0	178.51	3.056		
14,500.0	7,375.0	14,117.5	7,000.0	125.4	125.3	45.38	7,011.2	272.9	546.8	365.4	181.39	3.014		
14,600.0	7,375.0	14,217.5	7,000.0	127.1	127.0	45.52	7,111.2	272.9	548.1	363.8	184.29	2.974		
14,700.0	7,375.0	14,317.5	7,000.0	128.9	128.8	45.65	7,211.2	272.9	549.4	362.2	187.19	2.935		
14,800.0	7,375.0	14,417.5	7,000.0	130.6	130.5	45.78	7,311.1	272.9	550.7	360.6	190.09	2.897		
14,900.0	7,375.0	14,517.4	7,000.0	132.4	132.3	45.92	7,411.1	272.9	552.0	359.0	193.01	2.860		
15,000.0	7,375.0	14,617.4	7,000.0	134.1	134.0	46.05	7,511.1	272.9	553.3	357.4	195.94	2.824		
15,094.7	7,375.0	14,711.4	7,000.0	135.8	135.7	46.17	7,605.1	272.9	554.5	355.8	198.70	2.791 SF		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	9.0	9.0	0.0	0.0	90.67	-0.4	29.9	29.9					
100.0	100.0	109.0	109.0	0.2	0.1	90.67	-0.4	29.9	29.9	29.6	0.30	100.273		
200.0	200.0	209.0	209.0	0.3	0.3	90.67	-0.4	29.9	29.9	29.3	0.65	46.218		
263.4	263.4	272.4	272.4	0.4	0.4	90.67	-0.4	29.9	29.9	29.1	0.87	34.449 CC		
300.0	300.0	309.0	309.0	0.5	0.5	90.68	-0.4	29.9	29.9	28.9	1.00	30.036 ES		
400.0	400.0	408.5	408.5	0.7	0.7	91.89	-1.0	30.7	30.7	29.4	1.35	22.841		
500.0	500.0	508.1	508.0	0.8	0.8	94.84	-2.8	32.8	32.9	31.3	1.70	19.423		
600.0	600.0	607.5	607.3	1.0	1.0	98.87	-5.7	36.2	36.7	34.7	2.05	17.911		
700.0	700.0	706.7	706.4	1.2	1.2	-91.18	-9.6	41.0	42.2	39.8	2.40	17.588		
800.0	800.0	805.7	805.1	1.4	1.4	-89.83	-14.7	47.0	49.3	46.5	2.76	17.887		
900.0	899.9	905.4	904.3	1.6	1.7	-90.10	-20.4	53.8	57.3	54.1	3.12	18.348		
1,000.0	999.7	1,005.0	1,003.6	1.7	1.9	-91.60	-26.1	60.6	65.3	61.8	3.50	18.670		
1,100.0	1,099.5	1,104.7	1,102.8	1.9	2.1	-92.91	-31.9	67.5	73.3	69.4	3.88	18.915		
1,200.0	1,199.3	1,204.3	1,202.1	2.1	2.3	-93.96	-37.6	74.3	81.4	77.1	4.26	19.105		
1,300.0	1,299.2	1,304.0	1,301.4	2.3	2.6	-94.81	-43.3	81.1	89.5	84.9	4.65	19.257		
1,400.0	1,399.0	1,403.7	1,400.6	2.5	2.8	-95.53	-49.1	87.9	97.6	92.6	5.04	19.380		
1,500.0	1,498.8	1,503.3	1,499.9	2.7	3.0	-96.13	-54.8	94.8	105.8	100.3	5.43	19.481		
1,600.0	1,598.6	1,603.0	1,599.2	2.9	3.2	-96.65	-60.5	101.6	113.9	108.1	5.82	19.565		
1,700.0	1,698.5	1,702.7	1,698.4	3.1	3.5	-97.10	-66.2	108.4	122.1	115.8	6.22	19.637		
1,800.0	1,798.3	1,802.3	1,797.7	3.3	3.7	-97.50	-72.0	115.2	130.2	123.6	6.61	19.697		
1,900.0	1,898.1	1,902.0	1,896.9	3.5	3.9	-97.84	-77.7	122.0	138.4	131.4	7.01	19.750		
2,000.0	1,997.9	2,001.7	1,996.2	3.7	4.2	-98.15	-83.4	128.9	146.6	139.1	7.40	19.796		
2,100.0	2,097.8	2,101.3	2,095.5	3.9	4.4	-98.43	-89.2	135.7	154.7	146.9	7.80	19.836		
2,200.0	2,197.6	2,201.0	2,194.7	4.1	4.6	-98.67	-94.9	142.5	162.9	154.7	8.20	19.871		
2,300.0	2,297.4	2,300.6	2,294.0	4.3	4.9	-98.90	-100.6	149.3	171.1	162.5	8.60	19.903		
2,400.0	2,397.2	2,400.3	2,393.3	4.5	5.1	-99.10	-106.3	156.2	179.3	170.3	8.99	19.931		
2,500.0	2,497.1	2,500.0	2,492.5	4.7	5.3	-99.29	-112.1	163.0	187.4	178.0	9.39	19.956		
2,600.0	2,596.9	2,599.6	2,591.8	4.9	5.6	-99.46	-117.8	169.8	195.6	185.8	9.79	19.979		
2,700.0	2,696.7	2,699.3	2,691.1	5.1	5.8	-99.61	-123.5	176.6	203.8	193.6	10.19	20.000		
2,800.0	2,796.5	2,799.0	2,790.3	5.3	6.0	-99.76	-129.2	183.5	212.0	201.4	10.59	20.018		
2,900.0	2,896.3	2,898.6	2,889.6	5.5	6.3	-99.89	-135.0	190.3	220.2	209.2	10.99	20.036		
3,000.0	2,996.2	2,998.3	2,988.8	5.7	6.5	-100.02	-140.7	197.1	228.4	217.0	11.39	20.052		
3,100.0	3,096.0	3,097.9	3,088.1	5.9	6.7	-100.13	-146.4	203.9	236.6	224.8	11.79	20.066		
3,200.0	3,195.8	3,197.6	3,187.4	6.1	7.0	-100.24	-152.2	210.7	244.8	232.6	12.19	20.080		
3,300.0	3,295.6	3,297.3	3,286.6	6.3	7.2	-100.34	-157.9	217.6	253.0	240.4	12.59	20.092		
3,400.0	3,395.5	3,396.9	3,385.9	6.5	7.4	-100.44	-163.6	224.4	261.1	248.2	12.99	20.104		
3,500.0	3,495.3	3,496.6	3,485.2	6.7	7.7	-100.53	-169.3	231.2	269.3	256.0	13.39	20.114		
3,600.0	3,595.1	3,596.3	3,584.4	6.9	7.9	-100.61	-175.1	238.0	277.5	263.7	13.79	20.124		
3,700.0	3,694.9	3,695.9	3,683.7	7.1	8.1	-100.69	-180.8	244.9	285.7	271.5	14.19	20.134		
3,800.0	3,794.8	3,795.6	3,783.0	7.3	8.4	-100.76	-186.5	251.7	293.9	279.3	14.59	20.143		
3,900.0	3,894.6	3,895.2	3,882.2	7.5	8.6	-100.83	-192.3	258.5	302.1	287.1	14.99	20.151		
4,000.0	3,994.4	3,994.9	3,981.5	7.7	8.8	-100.90	-198.0	265.3	310.3	294.9	15.39	20.159		
4,100.0	4,094.2	4,094.6	4,080.8	7.9	9.1	-100.96	-203.7	272.1	318.5	302.7	15.79	20.166		
4,200.0	4,194.1	4,194.2	4,180.0	8.1	9.3	-101.02	-209.4	279.0	326.7	310.5	16.20	20.173		
4,300.0	4,293.9	4,293.9	4,279.3	8.3	9.5	-101.08	-215.2	285.8	334.9	318.3	16.60	20.179		
4,400.0	4,393.7	4,393.6	4,378.5	8.6	9.7	-101.13	-220.9	292.6	343.1	326.1	17.00	20.186		
4,500.0	4,493.5	4,493.2	4,477.8	8.8	10.0	-101.19	-226.6	299.4	351.3	333.9	17.40	20.192		
4,600.0	4,593.4	4,592.9	4,577.1	9.0	10.2	-101.24	-232.3	306.3	359.5	341.7	17.80	20.197		
4,700.0	4,693.2	4,692.5	4,676.3	9.2	10.4	-101.28	-238.1	313.1	367.7	349.5	18.20	20.202		
4,800.0	4,793.0	4,792.2	4,775.6	9.4	10.7	-101.33	-243.8	319.9	375.9	357.3	18.60	20.207		
4,900.0	4,892.8	4,891.9	4,874.9	9.6	10.9	-101.37	-249.5	326.7	384.1	365.1	19.00	20.212		
5,000.0	4,992.6	4,991.5	4,974.1	9.8	11.1	-101.41	-255.3	333.5	392.3	372.9	19.41	20.217		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,092.5	5,091.2	5,073.4	10.0	11.4	-101.45	-261.0	340.4	400.5	380.7	19.81	20.221		
5,200.0	5,192.3	5,190.9	5,172.7	10.2	11.6	-101.49	-266.7	347.2	408.7	388.5	20.21	20.225		
5,300.0	5,292.1	5,290.5	5,271.9	10.4	11.8	-101.53	-272.4	354.0	416.9	396.3	20.61	20.229		
5,400.0	5,391.9	5,390.2	5,371.2	10.6	12.1	-101.56	-278.2	360.8	425.1	404.1	21.01	20.233		
5,500.0	5,491.8	5,489.9	5,470.4	10.8	12.3	-101.60	-283.9	367.7	433.3	411.9	21.41	20.237		
5,600.0	5,591.6	5,589.5	5,569.7	11.0	12.5	-101.63	-289.6	374.5	441.5	419.7	21.81	20.240		
5,700.0	5,691.4	5,689.2	5,669.0	11.2	12.8	-101.66	-295.4	381.3	449.7	427.5	22.21	20.244		
5,800.0	5,791.2	5,788.8	5,768.2	11.4	13.0	-101.69	-301.1	388.1	457.9	435.3	22.62	20.247		
5,900.0	5,891.1	5,888.5	5,867.5	11.6	13.2	-101.72	-306.8	394.9	466.1	443.1	23.02	20.250		
6,000.0	5,990.9	5,988.2	5,966.8	11.8	13.5	-101.75	-312.5	401.8	474.3	450.9	23.42	20.253		
6,100.0	6,090.7	6,087.8	6,066.0	12.0	13.7	-101.78	-318.3	408.6	482.5	458.7	23.82	20.256		
6,200.0	6,190.5	6,187.5	6,165.3	12.2	13.9	-101.80	-324.0	415.4	490.7	466.5	24.22	20.259		
6,300.0	6,290.4	6,287.2	6,264.6	12.4	14.2	-101.83	-329.7	422.2	498.9	474.3	24.62	20.261		
6,400.0	6,390.2	6,386.8	6,363.8	12.6	14.4	-101.85	-335.4	429.1	507.1	482.1	25.03	20.264		
6,500.0	6,490.0	6,487.4	6,464.1	12.8	14.6	-102.34	-337.1	436.0	515.3	489.9	25.40	20.289		
6,600.0	6,589.8	6,584.4	6,559.7	13.0	14.7	-104.51	-322.9	442.5	523.6	497.9	25.70	20.373		
6,700.0	6,689.7	6,672.6	6,643.4	13.2	14.6	-107.91	-296.1	448.3	534.0	508.0	25.95	20.581		
6,800.0	6,789.5	6,750.0	6,712.8	13.4	14.6	-130.35	-262.3	453.0	548.7	522.6	26.14	20.991		
6,900.0	6,889.1	6,821.1	6,772.0	13.5	14.5	80.32	-223.2	457.1	567.5	541.3	26.19	21.668		
7,000.0	6,986.2	6,889.8	6,824.1	13.4	14.5	72.82	-178.7	460.7	588.1	562.1	26.01	22.613		
7,100.0	7,077.6	6,950.0	6,865.2	13.3	14.4	67.96	-134.8	463.5	608.9	583.3	25.61	23.771		
7,200.0	7,160.6	7,021.9	6,907.9	13.1	14.5	63.80	-77.1	466.5	628.4	603.4	25.01	25.124		
7,300.0	7,232.8	7,086.2	6,939.7	13.0	14.5	60.69	-21.3	468.6	645.7	621.3	24.38	26.488		
7,400.0	7,291.8	7,150.0	6,965.0	13.0	14.7	58.35	37.3	470.4	659.8	636.0	23.84	27.671		
7,500.0	7,336.0	7,212.6	6,983.3	13.2	14.9	56.72	97.1	471.6	670.2	646.6	23.61	28.383		
7,600.0	7,364.0	7,275.2	6,994.9	13.5	15.2	55.77	158.6	472.4	676.4	652.5	23.84	28.368		
7,700.0	7,374.9	7,337.7	6,999.8	14.1	15.5	55.49	220.8	472.8	678.1	653.4	24.64	27.524		
7,800.0	7,375.0	7,429.3	7,000.0	14.9	16.2	55.47	312.4	472.8	677.4	651.5	25.92	26.141		
7,900.0	7,375.0	7,529.3	7,000.0	15.8	17.0	55.44	412.4	472.8	676.9	649.4	27.46	24.651		
8,000.0	7,375.0	7,629.3	7,000.0	16.8	18.0	55.40	512.4	472.8	676.3	647.1	29.20	23.157		
8,100.0	7,375.0	7,729.3	7,000.0	18.0	19.1	55.37	612.4	472.8	675.7	644.6	31.12	21.712		
8,200.0	7,375.0	7,829.3	7,000.0	19.3	20.3	55.33	712.4	472.8	675.1	642.0	33.18	20.349		
8,300.0	7,375.0	7,929.3	7,000.0	20.6	21.5	55.30	812.4	472.8	674.6	639.2	35.35	19.083		
8,400.0	7,375.0	8,029.3	7,000.0	22.0	22.9	55.27	912.4	472.8	674.0	636.4	37.61	17.918		
8,500.0	7,375.0	8,129.3	7,000.0	23.4	24.2	55.23	1,012.4	472.8	673.4	633.5	39.96	16.853		
8,600.0	7,375.0	8,229.3	7,000.0	24.9	25.7	55.20	1,112.4	472.8	672.8	630.5	42.37	15.882		
8,700.0	7,375.0	8,329.3	7,000.0	26.4	27.1	55.17	1,212.4	472.8	672.3	627.4	44.83	14.997		
8,800.0	7,375.0	8,429.3	7,000.0	27.9	28.6	55.13	1,312.4	472.8	671.7	624.4	47.33	14.191		
8,900.0	7,375.0	8,529.3	7,000.0	29.5	30.1	55.10	1,412.4	472.8	671.1	621.3	49.88	13.456		
9,000.0	7,375.0	8,629.3	7,000.0	31.1	31.7	55.06	1,512.4	472.8	670.6	618.1	52.45	12.784		
9,100.0	7,375.0	8,729.3	7,000.0	32.7	33.3	55.03	1,612.4	472.8	670.0	614.9	55.05	12.170		
9,200.0	7,375.0	8,829.3	7,000.0	34.3	34.8	55.00	1,712.4	472.8	669.4	611.7	57.68	11.606		
9,300.0	7,375.0	8,929.3	7,000.0	35.9	36.4	54.90	1,812.4	472.8	668.0	607.7	60.35	11.068		
9,400.0	7,375.0	9,029.2	7,000.0	37.6	38.1	54.73	1,912.3	472.8	665.2	602.3	62.93	10.570		
9,500.0	7,375.0	9,129.1	7,000.0	39.2	39.7	54.55	2,012.3	472.8	662.4	596.9	65.51	10.111		
9,600.0	7,375.0	9,229.1	7,000.0	40.9	41.3	54.38	2,112.2	472.8	659.5	591.4	68.08	9.687		
9,700.0	7,375.0	9,329.0	7,000.0	42.5	43.0	54.20	2,212.1	472.8	656.7	586.0	70.65	9.295		
9,800.0	7,375.0	9,429.0	7,000.0	44.2	44.6	54.02	2,312.1	472.8	653.9	580.6	73.22	8.930		
9,900.0	7,375.0	9,528.9	7,000.0	45.9	46.3	53.84	2,412.0	472.8	651.0	575.2	75.79	8.590		
10,000.0	7,375.0	9,628.8	7,000.0	47.6	47.9	53.66	2,512.0	472.8	648.2	569.9	78.35	8.273		
10,100.0	7,375.0	9,728.8	7,000.0	49.3	49.6	53.47	2,611.9	472.8	645.4	564.5	80.90	7.978		
10,200.0	7,375.0	9,828.7	7,000.0	50.9	51.3	53.35	2,711.9	472.8	643.3	559.8	83.45	7.709		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,275.3	7,375.0	9,904.1	7,000.0	52.2	52.6	53.32	2,787.2	472.8	642.8	557.3	85.43	7.524		
10,300.0	7,375.0	9,928.7	7,000.0	52.6	53.0	53.33	2,811.9	472.8	643.0	556.9	86.11	7.467		
10,400.0	7,375.0	10,028.7	7,000.0	54.3	54.7	53.33	2,911.9	472.8	643.0	554.2	88.84	7.238		
10,431.1	7,375.0	10,059.8	7,000.0	54.9	55.2	53.33	2,943.0	472.8	643.1	553.4	89.67	7.171		
10,500.0	7,375.0	10,128.7	7,000.0	56.0	56.4	53.35	3,011.9	472.8	643.3	551.8	91.51	7.030		
10,600.0	7,375.0	10,228.7	7,000.0	57.8	58.1	53.44	3,111.8	472.8	644.8	550.4	94.35	6.834		
10,700.0	7,375.0	10,328.7	7,000.0	59.5	59.8	53.54	3,211.8	472.8	646.2	549.0	97.21	6.648		
10,800.0	7,375.0	10,428.7	7,000.0	61.2	61.5	53.64	3,311.8	472.8	647.7	547.6	100.07	6.472		
10,900.0	7,375.0	10,528.7	7,000.0	62.9	63.2	53.73	3,411.8	472.8	649.2	546.2	102.95	6.306		
11,000.0	7,375.0	10,628.6	7,000.0	64.6	64.9	53.83	3,511.8	472.8	650.7	544.8	105.84	6.148		
11,100.0	7,375.0	10,728.6	7,000.0	66.3	66.6	53.92	3,611.8	472.8	652.1	543.4	108.74	5.997		
11,200.0	7,375.0	10,828.6	7,000.0	68.1	68.3	54.02	3,711.7	472.8	653.6	542.0	111.64	5.854		
11,300.0	7,375.0	10,928.6	7,000.0	69.8	70.0	54.11	3,811.7	472.8	655.1	540.5	114.56	5.718		
11,400.0	7,375.0	11,028.6	7,000.0	71.5	71.7	54.20	3,911.7	472.8	656.6	539.1	117.48	5.589		
11,500.0	7,375.0	11,128.6	7,000.0	73.2	73.5	54.30	4,011.7	472.8	658.0	537.6	120.42	5.465		
11,600.0	7,375.0	11,228.5	7,000.0	75.0	75.2	54.39	4,111.7	472.8	659.5	536.2	123.36	5.347		
11,700.0	7,375.0	11,328.5	7,000.0	76.7	76.9	54.48	4,211.7	472.8	661.0	534.7	126.30	5.234		
11,800.0	7,375.0	11,428.5	7,000.0	78.4	78.6	54.57	4,311.6	472.8	662.5	533.2	129.26	5.125		
11,900.0	7,375.0	11,528.5	7,000.0	80.1	80.3	54.66	4,411.6	472.8	664.0	531.8	132.22	5.022		
12,000.0	7,375.0	11,628.5	7,000.0	81.9	82.1	54.75	4,511.6	472.8	665.5	530.3	135.19	4.923		
12,100.0	7,375.0	11,728.5	7,000.0	83.6	83.8	54.84	4,611.6	472.8	667.0	528.8	138.17	4.827		
12,200.0	7,375.0	11,828.4	7,000.0	85.3	85.5	54.93	4,711.6	472.8	668.5	527.3	141.15	4.736		
12,300.0	7,375.0	11,928.4	7,000.0	87.1	87.2	55.02	4,811.6	472.8	670.0	525.8	144.14	4.648		
12,400.0	7,375.0	12,028.4	7,000.0	88.8	89.0	55.11	4,911.5	472.8	671.5	524.3	147.14	4.563		
12,500.0	7,375.0	12,128.4	7,000.0	90.6	90.7	55.20	5,011.5	472.8	673.0	522.8	150.14	4.482		
12,600.0	7,375.0	12,228.4	7,000.0	92.3	92.4	55.29	5,111.5	472.8	674.5	521.3	153.15	4.404		
12,700.0	7,375.0	12,328.4	7,000.0	94.0	94.2	55.38	5,211.5	472.8	676.0	519.8	156.17	4.328		
12,800.0	7,375.0	12,428.3	7,000.0	95.8	95.9	55.47	5,311.5	472.8	677.5	518.3	159.19	4.256		
12,900.0	7,375.0	12,528.3	7,000.0	97.5	97.6	55.55	5,411.5	472.8	679.0	516.7	162.22	4.185		
13,000.0	7,375.0	12,628.3	7,000.0	99.2	99.4	55.64	5,511.4	472.8	680.5	515.2	165.25	4.118		
13,100.0	7,375.0	12,728.3	7,000.0	101.0	101.1	55.73	5,611.4	472.8	682.0	513.7	168.29	4.052		
13,200.0	7,375.0	12,828.3	7,000.0	102.7	102.8	55.81	5,711.4	472.8	683.5	512.1	171.34	3.989		
13,300.0	7,375.0	12,928.3	7,000.0	104.5	104.6	55.90	5,811.4	472.8	685.0	510.6	174.39	3.928		
13,400.0	7,375.0	13,028.2	7,000.0	106.2	106.3	55.98	5,911.4	472.8	686.5	509.1	177.45	3.869		
13,500.0	7,375.0	13,128.2	7,000.0	107.9	108.1	56.07	6,011.4	472.8	688.0	507.5	180.51	3.812		
13,600.0	7,375.0	13,228.2	7,000.0	109.7	109.8	56.15	6,111.3	472.8	689.5	506.0	183.58	3.756		
13,700.0	7,375.0	13,328.2	7,000.0	111.4	111.5	56.24	6,211.3	472.8	691.0	504.4	186.65	3.702		
13,800.0	7,375.0	13,428.2	7,000.0	113.2	113.3	56.32	6,311.3	472.8	692.6	502.8	189.73	3.650		
13,900.0	7,375.0	13,528.2	7,000.0	114.9	115.0	56.41	6,411.3	472.8	694.1	501.3	192.81	3.600		
14,000.0	7,375.0	13,628.1	7,000.0	116.7	116.8	56.49	6,511.3	472.8	695.6	499.7	195.90	3.551		
14,100.0	7,375.0	13,728.1	7,000.0	118.4	118.5	56.57	6,611.3	472.8	697.1	498.1	198.99	3.503		
14,200.0	7,375.0	13,828.1	7,000.0	120.1	120.2	56.65	6,711.2	472.8	698.7	496.6	202.09	3.457		
14,300.0	7,375.0	13,928.1	7,000.0	121.9	122.0	56.74	6,811.2	472.8	700.2	495.0	205.19	3.412		
14,400.0	7,375.0	14,028.1	7,000.0	123.6	123.7	56.82	6,911.2	472.8	701.7	493.4	208.30	3.369		
14,500.0	7,375.0	14,128.1	7,000.0	125.4	125.5	56.90	7,011.2	472.8	703.2	491.8	211.41	3.326		
14,600.0	7,375.0	14,228.0	7,000.0	127.1	127.2	56.98	7,111.2	472.8	704.8	490.2	214.53	3.285		
14,700.0	7,375.0	14,328.0	7,000.0	128.9	128.9	57.06	7,211.2	472.8	706.3	488.6	217.65	3.245		
14,800.0	7,375.0	14,428.0	7,000.0	130.6	130.7	57.14	7,311.1	472.8	707.8	487.0	220.78	3.206		
14,900.0	7,375.0	14,528.0	7,000.0	132.4	132.4	57.22	7,411.1	472.8	709.4	485.5	223.91	3.168		
15,000.0	7,375.0	14,628.0	7,000.0	134.1	134.2	57.30	7,511.1	472.8	710.9	483.9	227.04	3.131		
15,094.7	7,375.0	14,721.6	7,000.0	135.8	135.8	57.38	7,604.7	472.8	712.3	482.4	230.00	3.097 SF		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
6,300.0	6,290.4	6,497.0	6,460.1	12.4	14.7	-104.05	-313.3	914.6	999.3	975.1	24.12	41.432		
6,400.0	6,390.2	6,596.3	6,558.3	12.6	14.9	-104.07	-318.8	901.2	987.1	962.6	24.51	40.272		
6,500.0	6,490.0	6,695.5	6,656.5	12.8	15.2	-104.09	-324.3	887.8	974.9	950.0	24.90	39.148		
6,600.0	6,589.8	6,794.8	6,754.7	13.0	15.5	-104.12	-329.8	874.3	962.7	937.4	25.30	38.059		
6,700.0	6,689.7	6,894.0	6,852.8	13.2	15.8	-104.14	-335.3	860.9	950.6	924.9	25.69	37.003		
6,800.0	6,789.5	6,992.4	6,950.2	13.4	16.1	-122.22	-338.1	847.6	938.4	912.3	26.05	36.018		
6,900.0	6,889.1	7,089.3	7,045.4	13.5	16.3	94.68	-325.8	834.6	926.2	900.0	26.25	35.281		
7,000.0	6,986.2	7,185.4	7,136.3	13.4	16.5	92.92	-297.9	822.1	914.3	888.1	26.27	34.810		
7,100.0	7,077.6	7,280.7	7,220.8	13.3	16.6	92.99	-255.5	810.6	903.0	876.8	26.15	34.527		
7,200.0	7,160.6	7,375.6	7,296.7	13.1	16.7	93.44	-199.8	800.2	892.5	866.5	26.01	34.317		
7,300.0	7,232.8	7,470.1	7,362.3	13.0	16.9	93.98	-132.5	791.2	883.3	857.4	25.96	34.032		
7,400.0	7,291.8	7,564.4	7,416.0	13.0	17.1	94.52	-55.4	783.9	875.6	849.5	26.13	33.514		
7,500.0	7,336.0	7,658.7	7,456.4	13.2	17.5	94.99	29.4	778.3	869.6	842.9	26.64	32.646		
7,600.0	7,364.0	7,753.1	7,482.6	13.5	18.0	95.37	119.9	774.8	865.5	837.9	27.57	31.397		
7,700.0	7,374.9	7,847.6	7,493.6	14.1	18.6	95.62	213.7	773.2	863.4	834.5	28.92	29.854		
7,800.0	7,375.0	7,946.4	7,494.0	14.9	19.4	95.65	312.5	773.2	862.7	832.1	30.63	28.166		
7,900.0	7,375.0	8,046.4	7,494.0	15.8	20.3	95.66	412.5	773.2	862.0	829.4	32.61	26.436		
8,000.0	7,375.0	8,146.4	7,494.0	16.8	21.2	95.66	512.5	773.2	861.3	826.5	34.82	24.732		
8,100.0	7,375.0	8,246.4	7,494.0	18.0	22.3	95.67	612.5	773.2	860.6	823.4	37.24	23.110		
8,200.0	7,375.0	8,346.4	7,494.0	19.3	23.5	95.67	712.5	773.2	859.9	820.1	39.81	21.598		
8,300.0	7,375.0	8,446.4	7,494.0	20.6	24.8	95.68	812.5	773.2	859.2	816.7	42.52	20.207		
8,400.0	7,375.0	8,546.4	7,494.0	22.0	26.1	95.68	912.5	773.1	858.5	813.2	45.33	18.938		
8,500.0	7,375.0	8,646.4	7,494.0	23.4	27.4	95.69	1,012.5	773.1	857.8	809.6	48.23	17.784		
8,600.0	7,375.0	8,746.4	7,494.0	24.9	28.8	95.69	1,112.5	773.1	857.1	805.9	51.21	16.736		
8,700.0	7,375.0	8,846.4	7,494.0	26.4	30.2	95.70	1,212.5	773.1	856.4	802.1	54.25	15.786		
8,800.0	7,375.0	8,946.4	7,494.0	27.9	31.7	95.70	1,312.5	773.1	855.7	798.3	57.34	14.924		
8,900.0	7,375.0	9,046.4	7,494.0	29.5	33.2	95.71	1,412.5	773.1	855.0	794.5	60.47	14.139		
9,000.0	7,375.0	9,146.4	7,494.0	31.1	34.7	95.71	1,512.5	773.1	854.3	790.6	63.64	13.423		
9,100.0	7,375.0	9,246.4	7,494.0	32.7	36.2	95.72	1,612.5	773.1	853.6	786.7	66.84	12.770		
9,200.0	7,375.0	9,346.4	7,494.0	34.3	37.8	95.72	1,712.4	773.1	852.9	782.8	70.07	12.171		
9,300.0	7,375.0	9,446.3	7,494.0	35.9	39.4	95.73	1,812.4	773.1	851.2	778.1	73.05	11.652		
9,400.0	7,375.0	9,546.3	7,494.0	37.6	41.0	95.76	1,912.4	773.1	847.8	771.5	76.26	11.117		
9,500.0	7,375.0	9,646.2	7,494.0	39.2	42.6	95.78	2,012.3	773.1	844.3	764.7	79.54	10.614		
9,600.0	7,375.0	9,746.2	7,494.0	40.9	44.2	95.81	2,112.2	773.1	840.8	758.0	82.85	10.149		
9,700.0	7,375.0	9,846.1	7,494.0	42.5	45.8	95.83	2,212.2	773.1	837.3	751.2	86.16	9.718		
9,800.0	7,375.0	9,946.0	7,494.0	44.2	47.4	95.85	2,312.1	773.1	833.9	744.4	89.49	9.318		
9,900.0	7,375.0	10,046.0	7,494.0	45.9	49.1	95.88	2,412.1	773.1	830.4	737.5	92.83	8.945		
10,000.0	7,375.0	10,145.9	7,494.0	47.6	50.7	95.90	2,512.0	773.1	826.9	730.7	96.18	8.597		
10,100.0	7,375.0	10,245.9	7,494.0	49.3	52.4	95.93	2,611.9	773.1	823.4	723.9	99.54	8.272		
10,200.0	7,375.0	10,345.8	7,494.0	50.9	54.0	95.94	2,711.9	773.0	820.8	717.6	103.19	7.954		
10,276.3	7,375.0	10,422.1	7,494.0	52.2	55.3	95.95	2,788.2	773.0	820.1	714.3	105.89	7.745 CC		
10,300.0	7,375.0	10,445.8	7,494.0	52.6	55.7	95.95	2,811.9	773.0	820.4	713.7	106.73	7.687		
10,400.0	7,375.0	10,545.8	7,494.0	54.3	57.4	95.95	2,911.9	773.0	820.4	710.3	110.11	7.451		
10,431.7	7,375.0	10,577.5	7,494.0	54.9	57.9	95.95	2,943.6	773.0	820.5	709.3	111.25	7.376		
10,500.0	7,375.0	10,645.8	7,494.0	56.0	59.0	95.94	3,011.9	773.0	820.8	707.1	113.68	7.220		
10,600.0	7,375.0	10,745.8	7,494.0	57.8	60.7	95.93	3,111.9	773.0	822.6	705.5	117.10	7.025		
10,700.0	7,375.0	10,845.8	7,494.0	59.5	62.4	95.92	3,211.9	773.0	824.4	703.9	120.50	6.841		
10,800.0	7,375.0	10,945.8	7,494.0	61.2	64.1	95.91	3,311.9	773.0	826.2	702.3	123.92	6.668		
10,900.0	7,375.0	11,045.7	7,494.0	62.9	65.8	95.89	3,411.8	773.0	828.0	700.7	127.33	6.503		
11,000.0	7,375.0	11,145.7	7,494.0	64.6	67.5	95.88	3,511.8	773.0	829.8	699.1	130.76	6.347		
11,100.0	7,375.0	11,245.7	7,494.0	66.3	69.2	95.87	3,611.8	773.0	831.7	697.5	134.18	6.198		
11,200.0	7,375.0	11,345.7	7,494.0	68.1	70.9	95.85	3,711.8	773.0	833.5	695.9	137.61	6.057		

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 Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,300.0	7,375.0	11,445.7	7,494.0	69.8	72.6	95.84	3,811.8	773.0	835.3	694.2	141.04	5.922	
11,400.0	7,375.0	11,545.7	7,494.0	71.5	74.3	95.83	3,911.8	773.0	837.1	692.6	144.48	5.794	
11,500.0	7,375.0	11,645.6	7,494.0	73.2	76.0	95.82	4,011.7	773.0	838.9	691.0	147.91	5.672	
11,600.0	7,375.0	11,745.6	7,494.0	75.0	77.7	95.80	4,111.7	773.0	840.7	689.4	151.35	5.555	
11,700.0	7,375.0	11,845.6	7,494.0	76.7	79.4	95.79	4,211.7	773.0	842.5	687.7	154.80	5.443	
11,800.0	7,375.0	11,945.6	7,494.0	78.4	81.1	95.78	4,311.7	773.0	844.3	686.1	158.24	5.336	
11,900.0	7,375.0	12,045.6	7,494.0	80.1	82.9	95.77	4,411.7	773.0	846.1	684.4	161.69	5.233	
12,000.0	7,375.0	12,145.6	7,494.0	81.9	84.6	95.75	4,511.7	772.9	847.9	682.8	165.14	5.135	
12,100.0	7,375.0	12,245.5	7,494.0	83.6	86.3	95.74	4,611.6	772.9	849.8	681.2	168.59	5.040	
12,200.0	7,375.0	12,345.5	7,494.0	85.3	88.0	95.73	4,711.6	772.9	851.6	679.5	172.04	4.950	
12,300.0	7,375.0	12,445.5	7,494.0	87.1	89.7	95.72	4,811.6	772.9	853.4	677.9	175.50	4.863	
12,400.0	7,375.0	12,545.5	7,494.0	88.8	91.5	95.71	4,911.6	772.9	855.2	676.2	178.96	4.779	
12,500.0	7,375.0	12,645.5	7,494.0	90.6	93.2	95.69	5,011.6	772.9	857.0	674.6	182.41	4.698	
12,600.0	7,375.0	12,745.5	7,494.0	92.3	94.9	95.68	5,111.6	772.9	858.8	672.9	185.87	4.620	
12,700.0	7,375.0	12,845.5	7,494.0	94.0	96.6	95.67	5,211.5	772.9	860.6	671.3	189.34	4.545	
12,800.0	7,375.0	12,945.4	7,494.0	95.8	98.4	95.66	5,311.5	772.9	862.4	669.6	192.80	4.473	
12,900.0	7,375.0	13,045.4	7,494.0	97.5	100.1	95.65	5,411.5	772.9	864.2	668.0	196.26	4.404	
13,000.0	7,375.0	13,145.4	7,494.0	99.2	101.8	95.63	5,511.5	772.9	866.1	666.3	199.73	4.336	
13,100.0	7,375.0	13,245.4	7,494.0	101.0	103.6	95.62	5,611.5	772.9	867.9	664.7	203.19	4.271	
13,200.0	7,375.0	13,345.4	7,494.0	102.7	105.3	95.61	5,711.5	772.9	869.7	663.0	206.66	4.208	
13,300.0	7,375.0	13,445.4	7,494.0	104.5	107.0	95.60	5,811.4	772.9	871.5	661.4	210.13	4.147	
13,400.0	7,375.0	13,545.3	7,494.0	106.2	108.7	95.59	5,911.4	772.9	873.3	659.7	213.60	4.089	
13,500.0	7,375.0	13,645.3	7,494.0	107.9	110.5	95.57	6,011.4	772.9	875.1	658.0	217.07	4.031	
13,600.0	7,375.0	13,745.3	7,494.0	109.7	112.2	95.56	6,111.4	772.9	876.9	656.4	220.54	3.976	
13,700.0	7,375.0	13,845.3	7,494.0	111.4	113.9	95.55	6,211.4	772.8	878.7	654.7	224.01	3.923	
13,800.0	7,375.0	13,945.3	7,494.0	113.2	115.7	95.54	6,311.4	772.8	880.5	653.1	227.48	3.871	
13,900.0	7,375.0	14,045.3	7,494.0	114.9	117.4	95.53	6,411.3	772.8	882.3	651.4	230.96	3.820	
14,000.0	7,375.0	14,145.2	7,494.0	116.7	119.1	95.52	6,511.3	772.8	884.2	649.7	234.43	3.772	
14,100.0	7,375.0	14,245.2	7,494.0	118.4	120.9	95.51	6,611.3	772.8	886.0	648.1	237.91	3.724	
14,200.0	7,375.0	14,345.2	7,494.0	120.1	122.6	95.50	6,711.3	772.8	887.8	646.4	241.38	3.678	
14,300.0	7,375.0	14,445.2	7,494.0	121.9	124.4	95.48	6,811.3	772.8	889.6	644.7	244.86	3.633	
14,400.0	7,375.0	14,545.2	7,494.0	123.6	126.1	95.47	6,911.3	772.8	891.4	643.1	248.34	3.590	
14,500.0	7,375.0	14,645.2	7,494.0	125.4	127.8	95.46	7,011.2	772.8	893.2	641.4	251.81	3.547	
14,600.0	7,375.0	14,745.1	7,494.0	127.1	129.6	95.45	7,111.2	772.8	895.0	639.7	255.29	3.506	
14,700.0	7,375.0	14,845.1	7,494.0	128.9	131.3	95.44	7,211.2	772.8	896.8	638.1	258.77	3.466	
14,800.0	7,375.0	14,945.1	7,494.0	130.6	133.0	95.43	7,311.2	772.8	898.6	636.4	262.25	3.427	
14,900.0	7,375.0	15,045.1	7,494.0	132.4	134.8	95.42	7,411.2	772.8	900.5	634.7	265.73	3.389	
15,000.0	7,375.0	15,145.1	7,494.0	134.1	136.5	95.41	7,511.2	772.8	902.3	633.1	269.21	3.352	
15,094.7	7,375.0	15,238.3	7,494.0	135.8	138.2	95.40	7,604.4	772.8	904.0	631.5	272.48	3.318 ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 7710-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,200.0	7,375.0	7,329.0	7,329.0	19.3	12.8	90.00	1,618.1	84.5	921.0	889.0	31.99	28.789		
8,300.0	7,375.0	7,329.0	7,329.0	20.6	12.8	90.00	1,618.1	84.5	822.7	789.4	33.32	24.691		
8,400.0	7,375.0	7,329.0	7,329.0	22.0	12.8	90.00	1,618.1	84.5	724.9	690.2	34.71	20.884		
8,500.0	7,375.0	7,329.0	7,329.0	23.4	12.8	90.00	1,618.1	84.5	627.8	591.6	36.15	17.366		
8,600.0	7,375.0	7,329.0	7,329.0	24.9	12.8	90.00	1,618.1	84.5	531.7	494.1	37.63	14.131		
8,700.0	7,375.0	7,329.0	7,329.0	26.4	12.8	90.00	1,618.1	84.5	437.4	398.3	39.14	11.176		
8,800.0	7,375.0	7,329.0	7,329.0	27.9	12.8	90.00	1,618.1	84.5	346.4	305.7	40.68	8.514		
8,900.0	7,375.0	7,329.0	7,329.0	29.5	12.8	90.00	1,618.1	84.5	261.9	219.7	42.25	6.200		
9,000.0	7,375.0	7,329.0	7,329.0	31.1	12.8	90.00	1,618.1	84.5	192.9	149.1	43.83	4.402		
9,100.0	7,375.0	7,329.0	7,329.0	32.7	12.8	90.00	1,618.1	84.5	160.8	115.4	45.43	3.539		
9,106.9	7,375.0	7,329.0	7,329.0	32.8	12.8	90.00	1,618.1	84.5	160.6	115.1	45.55	3.527 CC, ES, SF		
9,200.0	7,375.0	7,329.0	7,329.0	34.3	12.8	90.00	1,618.1	84.5	185.7	138.6	47.05	3.947		
9,300.0	7,375.0	7,329.0	7,329.0	35.9	12.8	90.00	1,618.1	84.5	250.6	201.9	48.64	5.151		
9,400.0	7,375.0	7,329.0	7,329.0	37.6	12.8	90.00	1,618.1	84.5	332.4	282.2	50.27	6.613		
9,500.0	7,375.0	7,329.0	7,329.0	39.2	12.8	90.00	1,618.1	84.5	422.2	370.3	51.93	8.131		
9,600.0	7,375.0	7,329.0	7,329.0	40.9	12.8	90.00	1,618.1	84.5	515.7	462.1	53.59	9.624		
9,700.0	7,375.0	7,329.0	7,329.0	42.5	12.8	90.00	1,618.1	84.5	611.3	556.0	55.25	11.064		
9,800.0	7,375.0	7,329.0	7,329.0	44.2	12.8	90.00	1,618.1	84.5	708.1	651.2	56.93	12.439		
9,900.0	7,375.0	7,329.0	7,329.0	45.9	12.8	90.00	1,618.1	84.5	805.7	747.1	58.61	13.747		
10,000.0	7,375.0	7,329.0	7,329.0	47.6	12.8	90.00	1,618.1	84.5	903.8	843.5	60.29	14.990		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3C-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3C-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 13' KB @ 4966.0ft (Ensign 124)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Jillson-East Rinn 3C-22H-M268
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.33°

