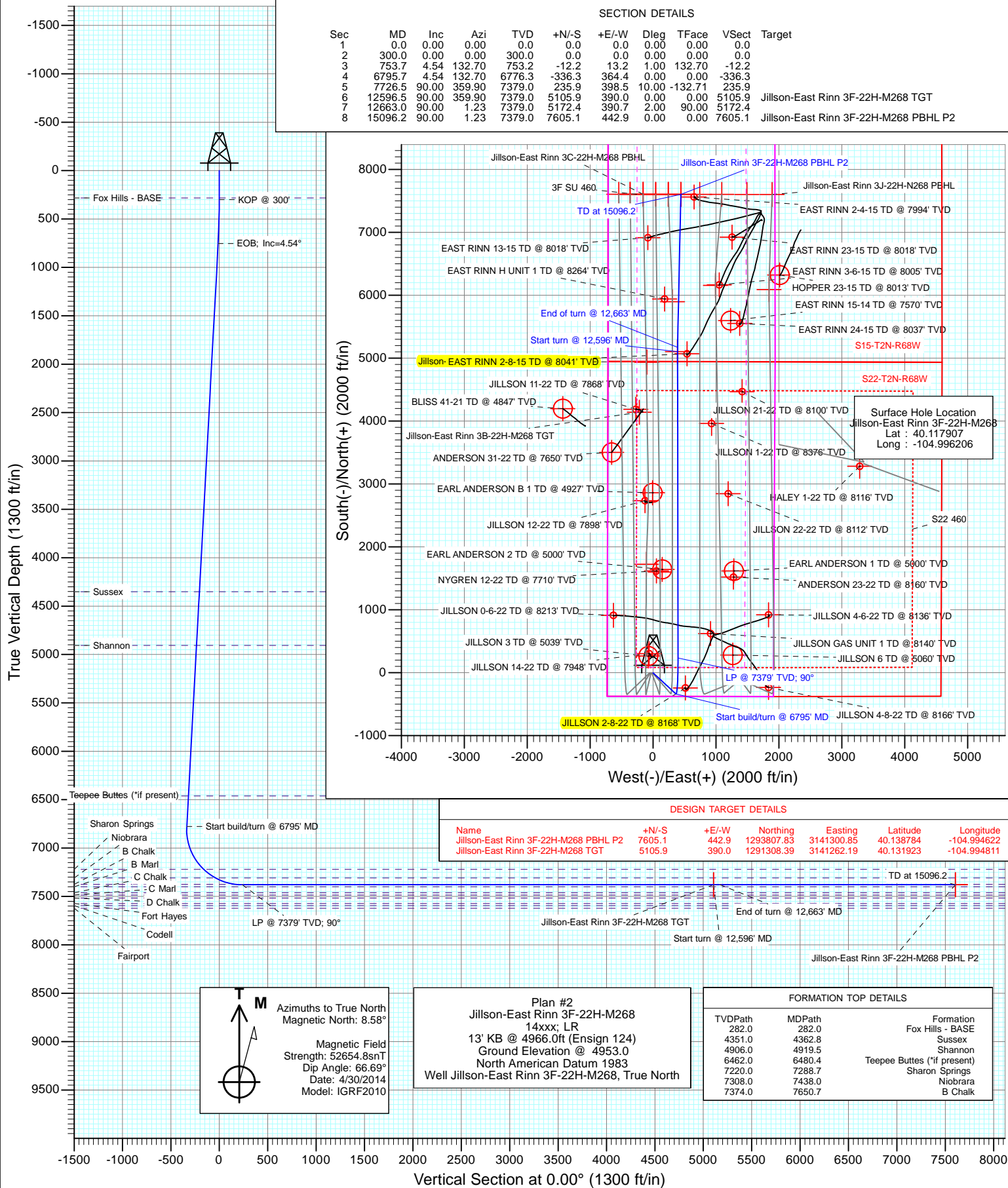




Project: DJ Wattenberg
Site: S22-T2N-R68W (Jillson-East Rinn)
Well: Jillson-East Rinn 3F-22H-M268
Wellbore: Hz
Design: Plan #2



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 3F-22H-M268					
Well Position	+N/-S	0.0 ft	Northing:	1,286,200.35 ft	Latitude:	40.117907
	+E/-W	0.0 ft	Easting:	3,140,901.20 ft	Longitude:	-104.996206
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	4/30/2014	8.58	66.69	52,655

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
753.7	4.54	132.70	753.2	-12.2	13.2	1.00	1.00	0.00	132.70	
6,795.7	4.54	132.70	6,776.3	-336.3	364.4	0.00	0.00	0.00	0.00	
7,726.5	90.00	359.90	7,379.0	235.9	398.5	10.00	9.18	-14.27	-132.71	
12,596.5	90.00	359.90	7,379.0	5,105.9	390.0	0.00	0.00	0.00	0.00	Jillson-East Rinn 3F-2
12,663.0	90.00	1.23	7,379.0	5,172.4	390.7	2.00	0.00	2.00	90.00	
15,096.2	90.00	1.23	7,379.0	7,605.1	442.9	0.00	0.00	0.00	0.00	Jillson-East Rinn 3F-2

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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	KOP @ 300'
400.0	1.00	132.70	400.0	-0.6	0.6	-0.6	1.00	1.00	
500.0	2.00	132.70	500.0	-2.4	2.6	-2.4	1.00	1.00	
600.0	3.00	132.70	599.9	-5.3	5.8	-5.3	1.00	1.00	
700.0	4.00	132.70	699.7	-9.5	10.3	-9.5	1.00	1.00	
753.7	4.54	132.70	753.2	-12.2	13.2	-12.2	1.00	1.00	EOB; Inc=4.54°
800.0	4.54	132.70	799.4	-14.7	15.9	-14.7	0.00	0.00	
900.0	4.54	132.70	899.1	-20.0	21.7	-20.0	0.00	0.00	
1,000.0	4.54	132.70	998.8	-25.4	27.5	-25.4	0.00	0.00	
1,100.0	4.54	132.70	1,098.4	-30.8	33.3	-30.8	0.00	0.00	
1,200.0	4.54	132.70	1,198.1	-36.1	39.1	-36.1	0.00	0.00	
1,300.0	4.54	132.70	1,297.8	-41.5	45.0	-41.5	0.00	0.00	
1,400.0	4.54	132.70	1,397.5	-46.8	50.8	-46.8	0.00	0.00	
1,500.0	4.54	132.70	1,497.2	-52.2	56.6	-52.2	0.00	0.00	
1,600.0	4.54	132.70	1,596.9	-57.6	62.4	-57.6	0.00	0.00	
1,700.0	4.54	132.70	1,696.6	-62.9	68.2	-62.9	0.00	0.00	
1,800.0	4.54	132.70	1,796.2	-68.3	74.0	-68.3	0.00	0.00	
1,900.0	4.54	132.70	1,895.9	-73.7	79.8	-73.7	0.00	0.00	
2,000.0	4.54	132.70	1,995.6	-79.0	85.6	-79.0	0.00	0.00	
2,100.0	4.54	132.70	2,095.3	-84.4	91.5	-84.4	0.00	0.00	
2,200.0	4.54	132.70	2,195.0	-89.8	97.3	-89.8	0.00	0.00	
2,300.0	4.54	132.70	2,294.7	-95.1	103.1	-95.1	0.00	0.00	
2,400.0	4.54	132.70	2,394.4	-100.5	108.9	-100.5	0.00	0.00	
2,500.0	4.54	132.70	2,494.1	-105.9	114.7	-105.8	0.00	0.00	
2,600.0	4.54	132.70	2,593.7	-111.2	120.5	-111.2	0.00	0.00	
2,700.0	4.54	132.70	2,693.4	-116.6	126.3	-116.6	0.00	0.00	
2,800.0	4.54	132.70	2,793.1	-121.9	132.1	-121.9	0.00	0.00	
2,900.0	4.54	132.70	2,892.8	-127.3	138.0	-127.3	0.00	0.00	
3,000.0	4.54	132.70	2,992.5	-132.7	143.8	-132.7	0.00	0.00	
3,100.0	4.54	132.70	3,092.2	-138.0	149.6	-138.0	0.00	0.00	
3,200.0	4.54	132.70	3,191.9	-143.4	155.4	-143.4	0.00	0.00	
3,300.0	4.54	132.70	3,291.5	-148.8	161.2	-148.8	0.00	0.00	
3,400.0	4.54	132.70	3,391.2	-154.1	167.0	-154.1	0.00	0.00	
3,500.0	4.54	132.70	3,490.9	-159.5	172.8	-159.5	0.00	0.00	
3,600.0	4.54	132.70	3,590.6	-164.9	178.6	-164.9	0.00	0.00	
3,700.0	4.54	132.70	3,690.3	-170.2	184.5	-170.2	0.00	0.00	
3,800.0	4.54	132.70	3,790.0	-175.6	190.3	-175.6	0.00	0.00	
3,900.0	4.54	132.70	3,889.7	-181.0	196.1	-180.9	0.00	0.00	
4,000.0	4.54	132.70	3,989.4	-186.3	201.9	-186.3	0.00	0.00	
4,100.0	4.54	132.70	4,089.0	-191.7	207.7	-191.7	0.00	0.00	
4,200.0	4.54	132.70	4,188.7	-197.0	213.5	-197.0	0.00	0.00	
4,300.0	4.54	132.70	4,288.4	-202.4	219.3	-202.4	0.00	0.00	
4,362.8	4.54	132.70	4,351.0	-205.8	223.0	-205.8	0.00	0.00	Sussex
4,400.0	4.54	132.70	4,388.1	-207.8	225.2	-207.8	0.00	0.00	
4,500.0	4.54	132.70	4,487.8	-213.1	231.0	-213.1	0.00	0.00	
4,600.0	4.54	132.70	4,587.5	-218.5	236.8	-218.5	0.00	0.00	
4,700.0	4.54	132.70	4,687.2	-223.9	242.6	-223.9	0.00	0.00	
4,800.0	4.54	132.70	4,786.8	-229.2	248.4	-229.2	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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	4.54	132.70	4,886.5	-234.6	254.2	-234.6	0.00	0.00	
4,919.5	4.54	132.70	4,906.0	-235.6	255.4	-235.6	0.00	0.00	Shannon
5,000.0	4.54	132.70	4,986.2	-240.0	260.0	-240.0	0.00	0.00	
5,100.0	4.54	132.70	5,085.9	-245.3	265.8	-245.3	0.00	0.00	
5,200.0	4.54	132.70	5,185.6	-250.7	271.7	-250.7	0.00	0.00	
5,300.0	4.54	132.70	5,285.3	-256.0	277.5	-256.0	0.00	0.00	
5,400.0	4.54	132.70	5,385.0	-261.4	283.3	-261.4	0.00	0.00	
5,500.0	4.54	132.70	5,484.7	-266.8	289.1	-266.8	0.00	0.00	
5,600.0	4.54	132.70	5,584.3	-272.1	294.9	-272.1	0.00	0.00	
5,700.0	4.54	132.70	5,684.0	-277.5	300.7	-277.5	0.00	0.00	
5,800.0	4.54	132.70	5,783.7	-282.9	306.5	-282.9	0.00	0.00	
5,900.0	4.54	132.70	5,883.4	-288.2	312.3	-288.2	0.00	0.00	
6,000.0	4.54	132.70	5,983.1	-293.6	318.2	-293.6	0.00	0.00	
6,100.0	4.54	132.70	6,082.8	-299.0	324.0	-299.0	0.00	0.00	
6,200.0	4.54	132.70	6,182.5	-304.3	329.8	-304.3	0.00	0.00	
6,300.0	4.54	132.70	6,282.1	-309.7	335.6	-309.7	0.00	0.00	
6,400.0	4.54	132.70	6,381.8	-315.1	341.4	-315.0	0.00	0.00	
6,480.4	4.54	132.70	6,462.0	-319.4	346.1	-319.4	0.00	0.00	Teepee Buttes (*if present)
6,500.0	4.54	132.70	6,481.5	-320.4	347.2	-320.4	0.00	0.00	
6,600.0	4.54	132.70	6,581.2	-325.8	353.0	-325.8	0.00	0.00	
6,700.0	4.54	132.70	6,680.9	-331.1	358.8	-331.1	0.00	0.00	
6,795.7	4.54	132.70	6,776.3	-336.3	364.4	-336.3	0.00	0.00	Start build/turn @ 6795' MD
6,800.0	4.26	128.41	6,780.6	-336.5	364.7	-336.5	10.00	-6.51	
6,900.0	8.07	24.15	6,880.2	-332.4	370.5	-332.4	10.00	3.81	
7,000.0	17.66	10.44	6,977.6	-311.0	376.1	-311.0	10.00	9.59	
7,100.0	27.54	6.31	7,069.8	-273.0	381.4	-273.0	10.00	9.88	
7,200.0	37.48	4.25	7,154.0	-219.6	386.2	-219.6	10.00	9.94	
7,288.7	46.31	3.09	7,220.0	-160.5	389.9	-160.5	10.00	9.96	Sharon Springs
7,300.0	47.44	2.96	7,227.7	-152.3	390.4	-152.3	10.00	9.97	
7,400.0	57.41	2.03	7,288.6	-73.2	393.8	-73.2	10.00	9.97	
7,438.0	61.20	1.73	7,308.0	-40.6	394.8	-40.6	10.00	9.98	Niobrara
7,500.0	67.39	1.29	7,334.9	15.3	396.3	15.3	10.00	9.98	
7,600.0	77.37	0.65	7,365.1	110.5	397.9	110.5	10.00	9.98	
7,650.7	82.43	0.34	7,374.0	160.3	398.3	160.3	10.00	9.98	B Chalk
7,700.0	87.36	0.05	7,378.4	209.4	398.5	209.4	10.00	9.98	
7,726.5	90.00	359.90	7,379.0	235.9	398.5	235.9	10.00	9.98	LP @ 7379' TVD; 90°
7,800.0	90.00	359.90	7,379.0	309.4	398.4	309.4	0.00	0.00	
7,900.0	90.00	359.90	7,379.0	409.4	398.2	409.4	0.00	0.00	
8,000.0	90.00	359.90	7,379.0	509.4	398.0	509.4	0.00	0.00	
8,100.0	90.00	359.90	7,379.0	609.4	397.8	609.4	0.00	0.00	
8,200.0	90.00	359.90	7,379.0	709.4	397.7	709.4	0.00	0.00	
8,300.0	90.00	359.90	7,379.0	809.4	397.5	809.4	0.00	0.00	
8,400.0	90.00	359.90	7,379.0	909.4	397.3	909.4	0.00	0.00	
8,500.0	90.00	359.90	7,379.0	1,009.4	397.1	1,009.4	0.00	0.00	
8,600.0	90.00	359.90	7,379.0	1,109.4	397.0	1,109.4	0.00	0.00	
8,700.0	90.00	359.90	7,379.0	1,209.4	396.8	1,209.4	0.00	0.00	
8,800.0	90.00	359.90	7,379.0	1,309.4	396.6	1,309.4	0.00	0.00	
8,900.0	90.00	359.90	7,379.0	1,409.4	396.5	1,409.4	0.00	0.00	
9,000.0	90.00	359.90	7,379.0	1,509.4	396.3	1,509.4	0.00	0.00	
9,100.0	90.00	359.90	7,379.0	1,609.4	396.1	1,609.4	0.00	0.00	
9,200.0	90.00	359.90	7,379.0	1,709.4	395.9	1,709.4	0.00	0.00	
9,300.0	90.00	359.90	7,379.0	1,809.4	395.8	1,809.4	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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
9,400.0	90.00	359.90	7,379.0	1,909.4	395.6	1,909.4	0.00	0.00	
9,500.0	90.00	359.90	7,379.0	2,009.4	395.4	2,009.4	0.00	0.00	
9,600.0	90.00	359.90	7,379.0	2,109.4	395.2	2,109.4	0.00	0.00	
9,700.0	90.00	359.90	7,379.0	2,209.4	395.1	2,209.4	0.00	0.00	
9,800.0	90.00	359.90	7,379.0	2,309.4	394.9	2,309.4	0.00	0.00	
9,900.0	90.00	359.90	7,379.0	2,409.4	394.7	2,409.4	0.00	0.00	
10,000.0	90.00	359.90	7,379.0	2,509.4	394.5	2,509.4	0.00	0.00	
10,100.0	90.00	359.90	7,379.0	2,609.4	394.4	2,609.4	0.00	0.00	
10,200.0	90.00	359.90	7,379.0	2,709.4	394.2	2,709.4	0.00	0.00	
10,300.0	90.00	359.90	7,379.0	2,809.4	394.0	2,809.4	0.00	0.00	
10,400.0	90.00	359.90	7,379.0	2,909.4	393.8	2,909.4	0.00	0.00	
10,500.0	90.00	359.90	7,379.0	3,009.4	393.7	3,009.4	0.00	0.00	
10,600.0	90.00	359.90	7,379.0	3,109.4	393.5	3,109.4	0.00	0.00	
10,700.0	90.00	359.90	7,379.0	3,209.4	393.3	3,209.4	0.00	0.00	
10,800.0	90.00	359.90	7,379.0	3,309.4	393.1	3,309.4	0.00	0.00	
10,900.0	90.00	359.90	7,379.0	3,409.4	393.0	3,409.4	0.00	0.00	
11,000.0	90.00	359.90	7,379.0	3,509.4	392.8	3,509.4	0.00	0.00	
11,100.0	90.00	359.90	7,379.0	3,609.4	392.6	3,609.4	0.00	0.00	
11,200.0	90.00	359.90	7,379.0	3,709.4	392.4	3,709.4	0.00	0.00	
11,300.0	90.00	359.90	7,379.0	3,809.4	392.3	3,809.4	0.00	0.00	
11,400.0	90.00	359.90	7,379.0	3,909.4	392.1	3,909.4	0.00	0.00	
11,500.0	90.00	359.90	7,379.0	4,009.4	391.9	4,009.4	0.00	0.00	
11,600.0	90.00	359.90	7,379.0	4,109.4	391.7	4,109.4	0.00	0.00	
11,700.0	90.00	359.90	7,379.0	4,209.4	391.6	4,209.4	0.00	0.00	
11,800.0	90.00	359.90	7,379.0	4,309.4	391.4	4,309.4	0.00	0.00	
11,900.0	90.00	359.90	7,379.0	4,409.4	391.2	4,409.4	0.00	0.00	
12,000.0	90.00	359.90	7,379.0	4,509.4	391.0	4,509.4	0.00	0.00	
12,100.0	90.00	359.90	7,379.0	4,609.4	390.9	4,609.4	0.00	0.00	
12,200.0	90.00	359.90	7,379.0	4,709.4	390.7	4,709.4	0.00	0.00	
12,300.0	90.00	359.90	7,379.0	4,809.4	390.5	4,809.4	0.00	0.00	
12,400.0	90.00	359.90	7,379.0	4,909.4	390.3	4,909.4	0.00	0.00	
12,500.0	90.00	359.90	7,379.0	5,009.4	390.2	5,009.4	0.00	0.00	
12,596.5	90.00	359.90	7,379.0	5,105.9	390.0	5,105.9	0.00	0.00	Start turn @ 12,596' MD
12,600.0	90.00	359.97	7,379.0	5,109.4	390.0	5,109.4	2.00	0.00	
12,663.0	90.00	1.23	7,379.0	5,172.4	390.7	5,172.4	2.00	0.00	End of turn @ 12,663' MD
12,700.0	90.00	1.23	7,379.0	5,209.4	391.4	5,209.4	0.00	0.00	
12,800.0	90.00	1.23	7,379.0	5,309.4	393.6	5,309.4	0.00	0.00	
12,900.0	90.00	1.23	7,379.0	5,409.4	395.7	5,409.4	0.00	0.00	
13,000.0	90.00	1.23	7,379.0	5,509.3	397.9	5,509.3	0.00	0.00	
13,100.0	90.00	1.23	7,379.0	5,609.3	400.0	5,609.3	0.00	0.00	
13,200.0	90.00	1.23	7,379.0	5,709.3	402.2	5,709.3	0.00	0.00	
13,300.0	90.00	1.23	7,379.0	5,809.3	404.3	5,809.3	0.00	0.00	
13,400.0	90.00	1.23	7,379.0	5,909.2	406.5	5,909.3	0.00	0.00	
13,500.0	90.00	1.23	7,379.0	6,009.2	408.6	6,009.2	0.00	0.00	
13,600.0	90.00	1.23	7,379.0	6,109.2	410.8	6,109.2	0.00	0.00	
13,700.0	90.00	1.23	7,379.0	6,209.2	412.9	6,209.2	0.00	0.00	
13,800.0	90.00	1.23	7,379.0	6,309.2	415.1	6,309.2	0.00	0.00	
13,900.0	90.00	1.23	7,379.0	6,409.1	417.2	6,409.1	0.00	0.00	
14,000.0	90.00	1.23	7,379.0	6,509.1	419.3	6,509.1	0.00	0.00	
14,100.0	90.00	1.23	7,379.0	6,609.1	421.5	6,609.1	0.00	0.00	
14,200.0	90.00	1.23	7,379.0	6,709.1	423.6	6,709.1	0.00	0.00	
14,300.0	90.00	1.23	7,379.0	6,809.0	425.8	6,809.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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
14,400.0	90.00	1.23	7,379.0	6,909.0	427.9	6,909.0	0.00	0.00	
14,500.0	90.00	1.23	7,379.0	7,009.0	430.1	7,009.0	0.00	0.00	
14,600.0	90.00	1.23	7,379.0	7,109.0	432.2	7,109.0	0.00	0.00	
14,700.0	90.00	1.23	7,379.0	7,208.9	434.4	7,209.0	0.00	0.00	
14,800.0	90.00	1.23	7,379.0	7,308.9	436.5	7,308.9	0.00	0.00	
14,900.0	90.00	1.23	7,379.0	7,408.9	438.7	7,408.9	0.00	0.00	
15,000.0	90.00	1.23	7,379.0	7,508.9	440.8	7,508.9	0.00	0.00	
15,096.2	90.00	1.23	7,379.0	7,605.1	442.9	7,605.1	0.00	0.00	TD at 15096.2

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 3F-22H - plan hits target center - Point	0.00	0.00	7,379.0	7,605.1	442.9	1,293,807.83	3,141,300.85	40.138784	-104.994622
Jillson-East Rinn 3F-22H - plan misses target center by 388.0ft at 15096.2ft MD (7379.0 TVD, 7605.1 N, 442.9 E) - Point	0.00	0.00	6,991.0	7,605.1	442.9	1,293,807.83	3,141,300.85	40.138784	-104.994622
Jillson-East Rinn 3F-22H - plan hits target center - Point	0.00	0.00	7,379.0	5,105.9	390.0	1,291,308.39	3,141,262.19	40.131923	-104.994811

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
282.0	282.0	Fox Hills - BASE			
4,362.8	4,351.0	Sussex			
4,919.5	4,906.0	Shannon			
6,480.4	6,462.0	Teepee Buttes (*if present)			
7,288.7	7,220.0	Sharon Springs			
7,438.0	7,308.0	Niobrara			
7,650.7	7,374.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300'
753.7	753.2	-12.2	13.2	EOB; Inc=4.54°
6,795.7	6,776.3	-336.3	364.4	Start build/turn @ 6795' MD
7,726.5	7,379.0	235.9	398.5	LP @ 7379' TVD; 90°
12,596.5	7,379.0	5,105.9	390.0	Start turn @ 12,596' MD
12,663.0	7,379.0	5,172.4	390.7	End of turn @ 12,663' MD
15,096.2	7,379.0	7,605.1	442.9	TD at 15096.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S22-T2N-R68W (Jillson-East Rinn)

Jillson-East Rinn 3F-22H-M268

Hz

Plan #2

Anticollision Report

07 May, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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	5/7/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	15,096.2	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S22-T2N-R68W (Jillson-East Rinn)						
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S	9,009.2	7,365.0	883.2	839.2	20.072	CC, ES
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S	9,300.0	7,365.0	929.8	881.1	19.092	SF
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL						Out of range
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	14,396.6	7,680.4	509.5	370.3	3.660	CC
EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV	14,400.0	7,680.4	509.5	370.2	3.658	ES, SF
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N	13,107.2	7,293.0	833.1	719.2	7.314	CC, ES
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N	13,200.0	7,293.0	838.2	722.7	7.256	SF
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV	14,440.8	7,349.4	831.1	693.1	6.021	CC, ES
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV	14,500.0	7,348.4	833.2	694.1	5.991	SF
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV	13,056.3	7,649.1	979.8	846.0	7.327	CC, ES
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV	13,200.0	7,651.1	990.3	854.0	7.269	SF
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR	15,061.5	7,462.4	215.6	66.9	1.450	Level 3, CC, ES, SF
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR	12,550.7	7,895.5	145.2	11.8	1.089	Level 2, CC, ES, SF
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR	13,668.6	7,491.4	640.8	505.6	4.741	CC, ES
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR	13,700.0	7,491.5	641.5	505.8	4.727	SF
EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N	13,427.4	7,290.0	222.8	103.4	1.865	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	2,447.1	2,582.1	906.8	889.8	53.248	CC
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	2,500.0	2,625.4	907.2	889.8	51.967	ES
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	3,400.0	3,431.0	990.4	966.6	41.539	SF
JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO	11,679.2	7,295.0	664.5	575.5	7.466	CC
JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO	11,700.0	7,294.9	664.9	575.5	7.439	ES
JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO	11,800.0	7,294.3	675.4	584.3	7.414	SF
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV	11,452.3	7,309.0	538.3	453.2	6.325	CC, ES
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV	11,500.0	7,309.0	540.4	454.5	6.289	SF
JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO	10,220.6	7,317.7	523.5	459.5	8.178	CC, ES
JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO	10,300.0	7,318.5	529.5	464.1	8.101	SF
JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO	363.1	349.0	256.4	255.2	207.542	CC
JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO	400.0	385.6	256.5	255.2	188.076	ES
JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO	7,900.0	7,362.4	473.0	444.5	16.563	SF
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR	10,335.3	7,345.0	801.8	735.8	12.147	CC, ES
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR	10,500.0	7,345.0	818.5	749.7	11.895	SF
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE	7,179.9	7,271.8	120.2	87.6	3.687	CC, ES, SF
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	300.0	280.0	277.0	276.1	279.898	CC, ES
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	5,100.0	5,039.0	615.3	597.5	34.584	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	8,113.0	7,375.0	518.1	487.1	16.743	CC, ES
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N	8,200.0	7,375.0	525.3	493.3	16.399	SF
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	200.0	200.0	50.1	49.4	76.694	CC, ES
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	15,096.7	15,162.8	987.4	716.9	3.650	SF
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3	300.0	300.0	40.0	39.0	39.922	CC, ES

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 3F-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 3F-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	Offset Measured Depth	Distance Between Centres		Separation Factor	Warning
Offset Well - Wellbore - Design	(ft)	(ft)	(ft)	Ellipses (ft)		
S22-T2N-R68W (Jillson-East Rinn)						
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3	15,096.7	15,297.7	831.3	568.3	3.161	SF
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2	300.0	300.0	29.9	28.9	29.872	CC, ES
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2	15,096.7	15,083.2	599.9	328.6	2.211	SF
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #2	300.0	300.0	19.9	18.9	19.928	CC, ES
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #2	15,096.7	15,168.6	407.9	141.6	1.532	SF
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #2	300.0	297.0	10.1	9.1	10.103	CC
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #2	500.0	497.2	10.4	8.7	6.115	ES
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #2	15,096.7	15,298.1	297.2	110.9	1.596	SF
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2	15,096.7	15,238.3	310.7	46.5	1.176	Level 2, CC, ES, SF
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3	13,801.7	14,000.0	612.3	396.3	2.835	CC
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3	13,900.0	14,076.9	614.3	395.4	2.806	ES
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3	15,096.7	15,260.0	678.6	417.8	2.602	SF
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	9,109.7	7,333.0	341.6	296.0	7.498	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 23-22 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8160-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		
8,600.0	7,379.0	7,365.0	7,365.0	25.8	12.9	90.00	1,520.2	1,279.4	973.3	935.7	37.65	25.853		
8,700.0	7,379.0	7,365.0	7,365.0	27.2	12.9	90.00	1,520.2	1,279.4	935.7	896.6	39.16	23.894		
8,800.0	7,379.0	7,365.0	7,365.0	28.7	12.9	90.00	1,520.2	1,279.4	907.6	866.9	40.70	22.299		
8,900.0	7,379.0	7,365.0	7,365.0	30.2	12.9	90.00	1,520.2	1,279.4	889.9	847.6	42.27	21.054		
9,000.0	7,379.0	7,365.0	7,365.0	31.8	12.9	90.00	1,520.2	1,279.4	883.2	839.3	43.85	20.141		
9,009.2	7,379.0	7,365.0	7,365.0	31.9	12.9	90.00	1,520.2	1,279.4	883.2	839.2	44.00	20.072 CC, ES		
9,100.0	7,379.0	7,365.0	7,365.0	33.3	12.9	90.00	1,520.2	1,279.4	887.8	842.4	45.45	19.532		
9,200.0	7,379.0	7,365.0	7,365.0	34.9	12.9	90.00	1,520.2	1,279.4	903.5	856.5	47.07	19.195		
9,300.0	7,379.0	7,365.0	7,365.0	36.5	12.9	90.00	1,520.2	1,279.4	929.8	881.1	48.70	19.092 SF		
9,400.0	7,379.0	7,365.0	7,365.0	38.1	12.9	90.00	1,520.2	1,279.4	965.8	915.4	50.34	19.184		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,600.0	7,379.0	7,680.8	7,298.9	109.9	37.0	-89.72	6,916.5	-81.5	945.6	820.2	125.32	7.545	
13,700.0	7,379.0	7,680.7	7,298.9	111.6	37.0	-89.72	6,916.5	-81.5	863.0	735.9	127.06	6.792	
13,800.0	7,379.0	7,680.7	7,298.8	113.3	37.0	-89.71	6,916.5	-81.5	784.5	655.7	128.81	6.091	
13,900.0	7,379.0	7,680.6	7,298.8	115.1	37.0	-89.70	6,916.5	-81.5	711.4	580.9	130.55	5.450	
14,000.0	7,379.0	7,680.6	7,298.7	116.8	37.0	-89.70	6,916.5	-81.5	645.6	513.3	132.29	4.880	
14,100.0	7,379.0	7,680.5	7,298.7	118.6	37.0	-89.69	6,916.5	-81.5	589.5	455.5	134.03	4.398	
14,200.0	7,379.0	7,680.5	7,298.6	120.3	37.0	-89.69	6,916.5	-81.5	546.1	410.3	135.78	4.022	
14,300.0	7,379.0	7,680.4	7,298.6	122.1	37.0	-89.68	6,916.5	-81.5	518.5	381.0	137.52	3.771	
14,396.6	7,379.0	7,680.4	7,298.5	123.7	37.0	-89.68	6,916.5	-81.5	509.5	370.3	139.21	3.660 CC	
14,400.0	7,379.0	7,680.4	7,298.5	123.8	37.0	-89.68	6,916.5	-81.5	509.5	370.2	139.27	3.658 ES, SF	
14,500.0	7,379.0	7,680.3	7,298.5	125.5	37.0	-89.67	6,916.5	-81.5	519.9	378.8	141.01	3.687	
14,600.0	7,379.0	7,680.3	7,298.4	127.3	37.0	-89.67	6,916.5	-81.5	548.6	405.8	142.76	3.843	
14,700.0	7,379.0	7,680.2	7,298.4	129.0	37.0	-89.66	6,916.5	-81.5	593.0	448.5	144.50	4.104	
14,800.0	7,379.0	7,680.2	7,298.3	130.8	37.0	-89.66	6,916.5	-81.5	649.9	503.6	146.25	4.444	
14,900.0	7,379.0	7,680.1	7,298.3	132.5	37.0	-89.65	6,916.5	-81.5	716.2	568.3	147.99	4.840	
15,000.0	7,379.0	7,680.1	7,298.3	134.3	37.0	-89.65	6,916.5	-81.5	789.7	640.0	149.74	5.274	
15,096.7	7,379.0	7,680.0	7,298.2	136.0	37.0	-89.64	6,916.5	-81.5	865.9	714.5	151.43	5.718	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 15-14 (EXISTING) AL - VESSELS WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 7570-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		
12,600.0	7,379.0	7,293.0	7,293.0	92.5	12.7	90.00	5,598.6	1,233.1	974.7	869.8	104.96	9.287		
12,700.0	7,379.0	7,293.0	7,293.0	94.2	12.7	90.00	5,598.6	1,233.1	927.3	820.4	106.82	8.680		
12,800.0	7,379.0	7,293.0	7,293.0	96.0	12.7	90.00	5,598.6	1,233.1	887.9	779.3	108.56	8.179		
12,900.0	7,379.0	7,293.0	7,293.0	97.7	12.7	90.00	5,598.6	1,233.1	858.5	748.2	110.30	7.783		
13,000.0	7,379.0	7,293.0	7,293.0	99.4	12.7	90.00	5,598.6	1,233.1	839.9	727.9	112.04	7.497		
13,100.0	7,379.0	7,293.0	7,293.0	101.2	12.7	90.00	5,598.6	1,233.1	833.1	719.3	113.78	7.322		
13,107.2	7,379.0	7,293.0	7,293.0	101.3	12.7	90.00	5,598.6	1,233.1	833.1	719.2	113.90	7.314 CC, ES		
13,200.0	7,379.0	7,293.0	7,293.0	102.9	12.7	90.00	5,598.6	1,233.1	838.2	722.7	115.52	7.256 SF		
13,300.0	7,379.0	7,293.0	7,293.0	104.6	12.7	90.00	5,598.6	1,233.1	855.1	737.8	117.26	7.292		
13,400.0	7,379.0	7,293.0	7,293.0	106.4	12.7	90.00	5,598.6	1,233.1	883.0	764.0	119.00	7.420		
13,500.0	7,379.0	7,293.0	7,293.0	108.1	12.7	90.00	5,598.6	1,233.1	921.0	800.3	120.74	7.628		
13,600.0	7,379.0	7,293.0	7,293.0	109.9	12.7	90.00	5,598.6	1,233.1	967.9	845.4	122.48	7.902		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 23-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 735-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,900.0	7,379.0	7,358.2	7,315.2	115.1	16.0	91.19	6,931.8	1,259.6	991.5	862.9	128.60	7.710		
14,000.0	7,379.0	7,356.5	7,313.6	116.8	16.0	91.07	6,931.9	1,259.6	940.7	810.4	130.35	7.217		
14,100.0	7,379.0	7,354.9	7,311.9	118.6	16.0	90.96	6,931.9	1,259.6	898.2	766.1	132.09	6.800		
14,200.0	7,379.0	7,353.2	7,310.3	120.3	16.0	90.85	6,931.9	1,259.6	865.3	731.4	133.83	6.465		
14,300.0	7,379.0	7,351.6	7,308.7	122.1	16.0	90.73	6,931.9	1,259.6	842.9	707.4	135.58	6.217		
14,400.0	7,379.0	7,350.0	7,307.1	123.8	16.0	90.62	6,932.0	1,259.6	832.1	694.8	137.32	6.059		
14,440.8	7,379.0	7,349.4	7,306.4	124.5	16.0	90.58	6,932.0	1,259.7	831.1	693.1	138.03	6.021 CC, ES		
14,500.0	7,379.0	7,348.4	7,305.5	125.5	16.0	90.51	6,932.0	1,259.7	833.2	694.1	139.07	5.991 SF		
14,600.0	7,379.0	7,346.8	7,303.9	127.3	16.0	90.41	6,932.0	1,259.7	846.2	705.4	140.81	6.010		
14,700.0	7,379.0	7,345.3	7,302.3	129.0	16.0	90.30	6,932.0	1,259.7	870.6	728.0	142.55	6.107		
14,800.0	7,379.0	7,343.7	7,300.8	130.8	16.0	90.19	6,932.1	1,259.7	905.4	761.1	144.30	6.274		
14,900.0	7,379.0	7,342.2	7,299.3	132.5	16.0	90.09	6,932.1	1,259.7	949.5	803.4	146.04	6.502		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 24-15 (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
12,900.0	7,379.0	7,646.9	7,299.1	97.7	33.9	89.86	5,544.6	1,378.6	992.2	861.2	131.01	7.573	
13,000.0	7,379.0	7,648.3	7,300.5	99.4	33.9	89.94	5,544.6	1,378.6	981.4	848.6	132.75	7.393	
13,056.3	7,379.0	7,649.1	7,301.3	100.4	33.9	89.99	5,544.6	1,378.6	979.8	846.0	133.73	7.327 CC, ES	
13,100.0	7,379.0	7,649.7	7,301.9	101.2	33.9	90.02	5,544.6	1,378.6	980.8	846.3	134.49	7.293	
13,200.0	7,379.0	7,651.1	7,303.2	102.9	33.9	90.10	5,544.6	1,378.6	990.3	854.0	136.23	7.269 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis			
14,100.0	7,379.0	7,473.3	7,317.8	118.6	23.6	94.36	7,565.6	657.3	985.3	853.6	131.66	7.484		
14,200.0	7,379.0	7,472.3	7,316.8	120.3	23.6	94.09	7,565.6	657.3	888.0	754.6	133.44	6.655		
14,300.0	7,379.0	7,471.3	7,315.7	122.1	23.6	93.81	7,565.6	657.4	791.4	656.2	135.21	5.853		
14,400.0	7,379.0	7,470.2	7,314.7	123.8	23.6	93.52	7,565.7	657.4	695.7	558.7	136.99	5.079		
14,500.0	7,379.0	7,469.1	7,313.6	125.5	23.6	93.23	7,565.7	657.4	601.4	462.7	138.76	4.334		
14,600.0	7,379.0	7,468.0	7,312.4	127.3	23.6	92.93	7,565.7	657.4	509.3	368.8	140.53	3.624		
14,700.0	7,379.0	7,466.8	7,311.3	129.0	23.6	92.63	7,565.7	657.5	420.9	278.6	142.30	2.958		
14,800.0	7,379.0	7,465.6	7,310.1	130.8	23.6	92.31	7,565.7	657.5	338.9	194.8	144.07	2.352		
14,900.0	7,379.0	7,464.4	7,308.9	132.5	23.6	91.99	7,565.7	657.5	269.4	123.5	145.83	1.847		
15,000.0	7,379.0	7,463.2	7,307.6	134.3	23.6	91.66	7,565.7	657.6	224.2	76.6	147.60	1.519		
15,061.5	7,379.0	7,462.4	7,306.9	135.3	23.6	91.45	7,565.7	657.6	215.6	66.9	148.68	1.450	Level 3, CC, ES, SF	
15,096.7	7,379.0	7,461.9	7,306.4	136.0	23.6	91.33	7,565.8	657.6	218.5	69.2	149.30	1.463	Level 3	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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)					
11,600.0	7,379.0	7,875.8	7,282.4	75.2	47.0	82.54	5,059.9	535.4	961.5	845.6	115.90	8.295	
11,700.0	7,379.0	7,878.0	7,284.5	76.9	47.0	83.37	5,059.9	535.4	862.8	744.9	117.82	7.323	
11,800.0	7,379.0	7,880.1	7,286.6	78.7	47.0	84.19	5,060.0	535.4	764.4	644.7	119.72	6.385	
11,900.0	7,379.0	7,882.2	7,288.7	80.4	47.0	85.02	5,060.0	535.4	666.5	544.9	121.61	5.481	
12,000.0	7,379.0	7,884.3	7,290.8	82.1	47.0	85.83	5,060.1	535.4	569.3	445.9	123.47	4.611	
12,100.0	7,379.0	7,886.3	7,292.9	83.8	47.0	86.63	5,060.1	535.4	473.4	348.0	125.31	3.777	
12,200.0	7,379.0	7,888.4	7,294.9	85.6	47.0	87.43	5,060.2	535.4	379.4	252.3	127.14	2.985	
12,300.0	7,379.0	7,890.4	7,296.9	87.3	47.0	88.23	5,060.2	535.3	289.6	160.7	128.94	2.246	
12,400.0	7,379.0	7,892.4	7,298.9	89.0	47.0	89.03	5,060.2	535.3	209.2	78.5	130.72	1.601	
12,500.0	7,379.0	7,894.4	7,301.0	90.8	47.0	89.83	5,060.3	535.3	153.8	21.3	132.48	1.161 Level 2	
12,550.7	7,379.0	7,895.5	7,302.0	91.6	47.0	90.24	5,060.3	535.3	145.2	11.8	133.38	1.089 Level 2, CC, ES, SF	
12,600.0	7,379.0	7,896.5	7,303.0	92.5	47.0	90.63	5,060.3	535.3	153.4	19.2	134.25	1.143 Level 2	
12,700.0	7,379.0	7,898.5	7,305.0	94.2	47.0	91.41	5,060.4	535.3	207.2	70.7	136.52	1.518	
12,800.0	7,379.0	7,900.5	7,307.0	96.0	47.0	92.19	5,060.4	535.3	286.5	148.3	138.20	2.073	
12,900.0	7,379.0	7,902.5	7,309.0	97.7	47.0	92.97	5,060.4	535.3	375.9	236.0	139.86	2.687	
13,000.0	7,379.0	7,904.5	7,311.0	99.4	47.0	93.74	5,060.5	535.3	469.5	328.0	141.50	3.318	
13,100.0	7,379.0	7,906.5	7,313.0	101.2	47.0	94.52	5,060.5	535.3	565.3	422.2	143.11	3.950	
13,200.0	7,379.0	7,908.5	7,315.0	102.9	47.0	95.29	5,060.6	535.3	662.4	517.7	144.69	4.578	
13,300.0	7,379.0	7,910.5	7,317.0	104.6	47.0	96.06	5,060.6	535.3	760.2	614.0	146.24	5.198	
13,400.0	7,379.0	7,912.5	7,319.0	106.4	47.0	96.83	5,060.6	535.3	858.5	710.7	147.76	5.810	
13,500.0	7,379.0	7,914.5	7,321.0	108.1	47.1	97.59	5,060.7	535.3	957.2	807.9	149.25	6.413	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 3-6-15 (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			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,000.0	7,379.0	7,489.1	7,299.1	99.4	26.7	89.79	6,164.0	1,052.8	926.0	802.5	123.51	7.498	
13,100.0	7,379.0	7,491.0	7,301.0	101.2	26.7	89.96	6,164.0	1,052.8	856.7	731.4	125.26	6.839	
13,200.0	7,379.0	7,491.0	7,301.0	102.9	26.7	89.96	6,164.0	1,052.8	793.8	666.8	127.00	6.251	
13,300.0	7,379.0	7,491.0	7,301.0	104.6	26.7	89.96	6,164.0	1,052.8	739.2	610.5	128.74	5.742	
13,400.0	7,379.0	7,491.0	7,301.0	106.4	26.7	89.96	6,164.0	1,052.8	694.8	564.3	130.48	5.325	
13,500.0	7,379.0	7,491.0	7,301.0	108.1	26.7	89.96	6,164.0	1,052.8	662.6	530.3	132.22	5.011	
13,600.0	7,379.0	7,491.0	7,301.0	109.9	26.7	89.96	6,164.0	1,052.8	644.4	510.5	133.96	4.811	
13,668.6	7,379.0	7,491.4	7,301.4	111.1	26.7	90.00	6,164.0	1,052.8	640.8	505.6	135.16	4.741 CC, ES	
13,700.0	7,379.0	7,491.5	7,301.5	111.6	26.7	90.01	6,164.0	1,052.8	641.5	505.8	135.70	4.727 SF	
13,800.0	7,379.0	7,491.8	7,301.8	113.3	26.7	90.04	6,164.0	1,052.8	654.1	516.7	137.45	4.759	
13,900.0	7,379.0	7,492.2	7,302.2	115.1	26.7	90.07	6,164.0	1,052.8	681.3	542.1	139.19	4.895	
14,000.0	7,379.0	7,492.5	7,302.5	116.8	26.7	90.10	6,164.0	1,052.8	721.4	580.5	140.93	5.119	
14,100.0	7,379.0	7,492.9	7,302.9	118.6	26.7	90.13	6,164.0	1,052.8	772.5	629.8	142.68	5.414	
14,200.0	7,379.0	7,493.2	7,303.2	120.3	26.7	90.16	6,164.0	1,052.8	832.5	688.0	144.42	5.764	
14,300.0	7,379.0	7,493.6	7,303.6	122.1	26.7	90.20	6,164.0	1,052.8	899.6	753.4	146.17	6.155	
14,400.0	7,379.0	7,494.0	7,303.9	123.8	26.7	90.23	6,164.0	1,052.8	972.4	824.5	147.91	6.574	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,500.0	7,379.0	7,290.0	7,290.0	90.8	12.7	-90.00	5,941.4	184.3	954.5	851.2	103.21	9.248		
12,600.0	7,379.0	7,290.0	7,290.0	92.5	12.7	-90.00	5,941.4	184.3	857.0	752.1	104.96	8.166		
12,700.0	7,379.0	7,290.0	7,290.0	94.2	12.7	-90.00	5,941.4	184.3	760.8	653.9	106.82	7.122		
12,800.0	7,379.0	7,290.0	7,290.0	96.0	12.7	-90.00	5,941.4	184.3	665.8	557.2	108.56	6.133		
12,900.0	7,379.0	7,290.0	7,290.0	97.7	12.7	-90.00	5,941.4	184.3	572.5	462.2	110.30	5.191		
13,000.0	7,379.0	7,290.0	7,290.0	99.4	12.7	-90.00	5,941.4	184.3	482.0	370.0	112.03	4.302		
13,100.0	7,379.0	7,290.0	7,290.0	101.2	12.7	-90.00	5,941.4	184.3	396.0	282.3	113.77	3.481		
13,200.0	7,379.0	7,290.0	7,290.0	102.9	12.7	-90.00	5,941.4	184.3	318.4	202.9	115.51	2.756		
13,300.0	7,379.0	7,290.0	7,290.0	104.6	12.7	-90.00	5,941.4	184.3	256.7	139.4	117.25	2.189		
13,400.0	7,379.0	7,290.0	7,290.0	106.4	12.7	-90.00	5,941.4	184.3	224.5	105.5	119.00	1.887		
13,427.4	7,379.0	7,290.0	7,290.0	106.9	12.7	-90.00	5,941.4	184.3	222.8	103.4	119.47	1.865 CC, ES, SF		
13,500.0	7,379.0	7,290.0	7,290.0	108.1	12.7	-90.00	5,941.4	184.3	234.4	113.6	120.74	1.941		
13,600.0	7,379.0	7,290.0	7,290.0	109.9	12.7	-90.00	5,941.4	184.3	281.9	159.4	122.48	2.301		
13,700.0	7,379.0	7,290.0	7,290.0	111.6	12.7	-90.00	5,941.4	184.3	352.1	227.9	124.22	2.835		
13,800.0	7,379.0	7,290.0	7,290.0	113.3	12.7	-90.00	5,941.4	184.3	434.2	308.2	125.96	3.447		
13,900.0	7,379.0	7,290.0	7,290.0	115.1	12.7	-90.00	5,941.4	184.3	522.5	394.8	127.71	4.092		
14,000.0	7,379.0	7,290.0	7,290.0	116.8	12.7	-90.00	5,941.4	184.3	614.5	485.0	129.45	4.747		
14,100.0	7,379.0	7,290.0	7,290.0	118.6	12.7	-90.00	5,941.4	184.3	708.6	577.4	131.19	5.401		
14,200.0	7,379.0	7,290.0	7,290.0	120.3	12.7	-90.00	5,941.4	184.3	804.1	671.2	132.94	6.049		
14,300.0	7,379.0	7,290.0	7,290.0	122.1	12.7	-90.00	5,941.4	184.3	900.6	765.9	134.68	6.687		
14,400.0	7,379.0	7,290.0	7,290.0	123.8	12.7	-90.00	5,941.4	184.3	997.8	861.4	136.43	7.314		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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				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)				
1,600.0	1,596.9	1,859.0	1,813.0	3.2	7.2	-96.90	725.7	646.5	997.7	987.5	10.15	98.309		
1,700.0	1,696.6	1,940.2	1,888.6	3.4	7.7	-98.74	728.4	617.3	979.4	968.5	10.91	89.786		
1,800.0	1,796.2	2,032.8	1,974.8	3.6	8.4	-100.97	732.4	583.5	963.2	951.4	11.77	81.841		
1,900.0	1,895.9	2,140.1	2,074.3	3.8	9.1	-103.64	736.1	543.5	947.4	934.6	12.74	74.361		
2,000.0	1,995.6	2,219.7	2,148.2	4.1	9.6	-105.64	738.4	514.2	933.3	919.7	13.51	69.082		
2,100.0	2,095.3	2,299.0	2,222.3	4.3	10.2	-107.64	741.1	485.9	921.8	907.6	14.27	64.593		
2,200.0	2,195.0	2,370.7	2,289.4	4.5	10.6	-109.46	744.6	461.1	913.7	898.8	14.97	61.033		
2,300.0	2,294.7	2,450.4	2,364.1	4.7	11.2	-111.52	750.0	433.8	909.2	893.4	15.75	57.732		
2,400.0	2,394.4	2,541.0	2,448.3	4.9	11.8	-114.01	757.4	401.1	907.1	890.5	16.63	54.556		
2,447.1	2,441.4	2,582.1	2,486.2	5.0	12.1	-115.18	760.9	385.6	906.8	889.8	17.03	53.248 CC		
2,500.0	2,494.1	2,625.4	2,526.1	5.2	12.5	-116.41	764.8	369.2	907.2	889.8	17.46	51.967 ES		
2,600.0	2,593.7	2,731.8	2,623.8	5.4	13.3	-119.49	774.1	328.2	909.4	891.0	18.44	49.315		
2,700.0	2,693.4	2,812.0	2,697.6	5.6	13.8	-121.78	780.3	297.4	913.1	894.0	19.17	47.625		
2,800.0	2,793.1	2,920.3	2,798.1	5.8	14.6	-124.72	788.1	257.7	918.7	898.7	20.04	45.837		
2,900.0	2,892.8	3,026.3	2,897.3	6.0	15.3	-127.45	793.3	220.5	924.3	903.5	20.83	44.381		
3,000.0	2,992.5	3,112.5	2,977.8	6.3	15.9	-129.65	796.8	190.1	931.0	909.5	21.50	43.310		
3,100.0	3,092.2	3,172.0	3,033.1	6.5	16.3	-131.18	800.1	168.6	941.2	919.2	22.01	42.761		
3,200.0	3,191.9	3,260.0	3,114.8	6.7	16.9	-133.43	807.3	136.5	955.2	932.6	22.65	42.175		
3,300.0	3,291.5	3,341.7	3,190.3	6.9	17.5	-135.49	814.9	106.4	972.1	948.9	23.24	41.831		
3,400.0	3,391.2	3,431.0	3,272.6	7.2	18.2	-137.72	822.8	72.5	990.4	966.6	23.84	41.539 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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	
11,000.0	7,379.0	7,299.5	7,297.6	64.9	12.9	-90.05	4,187.5	-272.9	950.2	872.9	77.31	12.291	
11,100.0	7,379.0	7,298.8	7,296.9	66.6	12.9	-90.00	4,187.5	-272.9	881.5	802.5	79.03	11.154	
11,200.0	7,379.0	7,298.1	7,296.3	68.4	12.9	-89.94	4,187.5	-272.9	819.3	738.6	80.75	10.146	
11,300.0	7,379.0	7,297.5	7,295.6	70.1	12.9	-89.88	4,187.5	-272.9	765.1	682.7	82.47	9.277	
11,400.0	7,379.0	7,296.8	7,295.0	71.8	12.9	-89.83	4,187.5	-272.9	720.8	636.6	84.20	8.561	
11,500.0	7,379.0	7,296.2	7,294.3	73.5	12.9	-89.77	4,187.5	-272.9	688.3	602.4	85.92	8.011	
11,600.0	7,379.0	7,295.5	7,293.7	75.2	12.9	-89.71	4,187.5	-272.9	669.2	581.6	87.65	7.636	
11,679.2	7,379.0	7,295.0	7,293.2	76.6	12.9	-89.67	4,187.5	-272.9	664.5	575.5	89.01	7.466 CC	
11,700.0	7,379.0	7,294.9	7,293.1	76.9	12.9	-89.66	4,187.5	-272.9	664.9	575.5	89.37	7.439 ES	
11,800.0	7,379.0	7,294.3	7,292.4	78.7	12.9	-89.60	4,187.5	-272.9	675.4	584.3	91.10	7.414 SF	
11,900.0	7,379.0	7,293.6	7,291.8	80.4	12.9	-89.55	4,187.5	-272.9	700.2	607.4	92.83	7.543	
12,000.0	7,379.0	7,293.0	7,291.2	82.1	12.9	-89.50	4,187.5	-272.9	737.9	643.3	94.56	7.804	
12,100.0	7,379.0	7,292.4	7,290.5	83.8	12.9	-89.44	4,187.5	-272.9	786.5	690.3	96.29	8.169	
12,200.0	7,379.0	7,291.8	7,289.9	85.6	12.9	-89.39	4,187.5	-272.9	844.3	746.3	98.02	8.613	
12,300.0	7,379.0	7,291.1	7,289.3	87.3	12.9	-89.34	4,187.5	-272.9	909.4	809.6	99.75	9.116	
12,400.0	7,379.0	7,290.5	7,288.7	89.0	12.9	-89.28	4,187.5	-272.9	980.4	878.9	101.49	9.660	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 1-22 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 8376-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
10,700.0	7,379.0	7,309.0	7,309.0	59.8	12.8	90.00	3,962.7	930.3	925.1	852.9	72.17	12.818	
10,800.0	7,379.0	7,309.0	7,309.0	61.5	12.8	90.00	3,962.7	930.3	845.7	771.9	73.88	11.447	
10,900.0	7,379.0	7,309.0	7,309.0	63.2	12.8	90.00	3,962.7	930.3	771.2	695.6	75.60	10.202	
11,000.0	7,379.0	7,309.0	7,309.0	64.9	12.8	90.00	3,962.7	930.3	703.1	625.8	77.31	9.094	
11,100.0	7,379.0	7,309.0	7,309.0	66.6	12.8	90.00	3,962.7	930.3	643.3	564.3	79.03	8.140	
11,200.0	7,379.0	7,309.0	7,309.0	68.4	12.8	90.00	3,962.7	930.3	594.5	513.7	80.75	7.362	
11,300.0	7,379.0	7,309.0	7,309.0	70.1	12.8	90.00	3,962.7	930.3	559.4	477.0	82.48	6.783	
11,400.0	7,379.0	7,309.0	7,309.0	71.8	12.8	90.00	3,962.7	930.3	540.9	456.6	84.20	6.423	
11,452.3	7,379.0	7,309.0	7,309.0	72.7	12.8	90.00	3,962.7	930.3	538.3	453.2	85.10	6.325 CC, ES	
11,500.0	7,379.0	7,309.0	7,309.0	73.5	12.8	90.00	3,962.7	930.3	540.4	454.5	85.93	6.289 SF	
11,600.0	7,379.0	7,309.0	7,309.0	75.2	12.8	90.00	3,962.7	930.3	558.2	470.6	87.65	6.368	
11,700.0	7,379.0	7,309.0	7,309.0	76.9	12.8	90.00	3,962.7	930.3	592.6	503.2	89.38	6.630	
11,800.0	7,379.0	7,309.0	7,309.0	78.7	12.8	90.00	3,962.7	930.3	640.8	549.7	91.11	7.034	
11,900.0	7,379.0	7,309.0	7,309.0	80.4	12.8	90.00	3,962.7	930.3	700.2	607.3	92.84	7.541	
12,000.0	7,379.0	7,309.0	7,309.0	82.1	12.8	90.00	3,962.7	930.3	768.0	673.4	94.57	8.120	
12,100.0	7,379.0	7,309.0	7,309.0	83.8	12.8	90.00	3,962.7	930.3	842.2	745.9	96.31	8.745	
12,200.0	7,379.0	7,309.0	7,309.0	85.6	12.8	90.00	3,962.7	930.3	921.3	823.3	98.04	9.398	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,400.0	7,379.0	7,309.1	7,307.2	38.1	12.9	-88.92	2,729.0	-129.4	973.3	923.1	50.24	19.375		
9,500.0	7,379.0	7,310.2	7,308.2	39.8	12.9	-89.04	2,729.0	-129.4	890.7	838.8	51.89	17.164		
9,600.0	7,379.0	7,311.2	7,309.3	41.4	12.9	-89.16	2,729.1	-129.4	811.9	758.3	53.56	15.160		
9,700.0	7,379.0	7,312.3	7,310.4	43.0	12.9	-89.27	2,729.1	-129.4	738.3	683.1	55.23	13.369		
9,800.0	7,379.0	7,313.4	7,311.4	44.7	12.9	-89.39	2,729.1	-129.4	671.5	614.6	56.90	11.802		
9,900.0	7,379.0	7,314.4	7,312.5	46.4	12.9	-89.50	2,729.1	-129.4	613.9	555.3	58.58	10.479		
10,000.0	7,379.0	7,315.4	7,313.5	48.0	12.9	-89.62	2,729.1	-129.4	568.1	507.8	60.27	9.425		
10,100.0	7,379.0	7,316.5	7,314.5	49.7	12.9	-89.73	2,729.1	-129.4	537.2	475.3	61.97	8.670		
10,200.0	7,379.0	7,317.5	7,315.6	51.4	12.9	-89.84	2,729.1	-129.4	523.9	460.3	63.66	8.230		
10,220.6	7,379.0	7,317.7	7,315.8	51.7	12.9	-89.87	2,729.1	-129.4	523.5	459.5	64.01	8.178 CC, ES		
10,300.0	7,379.0	7,318.5	7,316.6	53.1	12.9	-89.96	2,729.1	-129.4	529.5	464.1	65.36	8.101 SF		
10,400.0	7,379.0	7,319.6	7,317.6	54.7	12.9	-90.07	2,729.1	-129.4	553.4	486.3	67.07	8.252		
10,500.0	7,379.0	7,320.6	7,318.6	56.4	12.9	-90.18	2,729.2	-129.4	593.4	524.6	68.77	8.629		
10,600.0	7,379.0	7,321.6	7,319.7	58.1	12.9	-90.29	2,729.2	-129.4	646.5	576.0	70.48	9.173		
10,700.0	7,379.0	7,322.6	7,320.7	59.8	12.9	-90.40	2,729.2	-129.4	709.8	637.6	72.19	9.832		
10,800.0	7,379.0	7,323.6	7,321.7	61.5	12.9	-90.51	2,729.2	-129.4	780.9	706.9	73.91	10.565		
10,900.0	7,379.0	7,324.6	7,322.7	63.2	12.9	-90.62	2,729.2	-129.4	857.7	782.0	75.62	11.341		
11,000.0	7,379.0	7,325.6	7,323.7	64.9	12.9	-90.73	2,729.2	-129.4	938.9	861.5	77.34	12.139		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	2.84	259.7	12.9	260.5					
100.0	100.0	88.0	88.0	0.2	0.2	3.08	259.0	13.9	259.4	259.1	0.31	828.386		
200.0	200.0	187.6	187.6	0.3	0.3	3.69	257.3	16.6	257.8	257.2	0.67	385.744		
300.0	300.0	286.4	286.3	0.5	0.5	4.20	256.0	18.8	256.7	255.7	1.02	252.229		
363.1	363.1	349.0	348.9	0.6	0.6	-128.34	255.4	19.8	256.4	255.2	1.24	207.542 CC		
400.0	400.0	385.6	385.5	0.7	0.7	-128.33	255.2	20.2	256.5	255.2	1.36	188.076 ES		
500.0	500.0	484.5	484.4	0.9	0.9	-128.58	254.7	21.0	257.8	256.0	1.71	150.554		
600.0	599.9	584.8	584.7	1.0	1.0	-129.25	254.5	21.3	260.3	258.2	2.07	125.991		
700.0	699.7	684.7	684.6	1.2	1.2	-130.28	254.1	21.1	263.8	261.4	2.42	108.838		
800.0	799.4	784.0	783.8	1.4	1.4	-131.61	253.9	20.6	268.6	265.8	2.79	96.403		
900.0	899.1	883.8	883.6	1.7	1.6	-132.98	253.7	20.0	273.8	270.6	3.15	86.886		
1,000.0	998.8	982.4	982.3	1.9	1.7	-134.34	253.6	19.1	279.2	275.7	3.51	79.456		
1,100.0	1,098.4	1,082.3	1,082.1	2.1	1.9	-135.71	253.8	17.9	285.0	281.1	3.88	73.482		
1,200.0	1,198.1	1,181.5	1,181.4	2.3	2.1	-137.05	253.8	16.6	290.8	286.6	4.24	68.585		
1,300.0	1,297.8	1,280.3	1,280.2	2.5	2.2	-138.37	254.1	15.1	297.1	292.5	4.60	64.563		
1,400.0	1,397.5	1,380.2	1,380.0	2.7	2.4	-139.65	254.5	13.5	303.6	298.7	4.96	61.172		
1,500.0	1,497.2	1,479.8	1,479.6	3.0	2.6	-140.87	254.8	12.0	310.2	304.9	5.32	58.266		
1,600.0	1,596.9	1,579.4	1,579.2	3.2	2.8	-142.03	255.1	10.5	316.9	311.2	5.68	55.763		
1,700.0	1,696.6	1,679.2	1,679.0	3.4	2.9	-143.14	255.3	9.0	323.7	317.7	6.04	53.576		
1,800.0	1,796.2	1,778.5	1,778.3	3.6	3.1	-144.18	255.6	7.6	330.6	324.2	6.40	51.665		
1,900.0	1,895.9	1,879.6	1,879.4	3.8	3.3	-145.19	255.8	6.3	337.5	330.8	6.76	49.943		
2,000.0	1,995.6	1,980.7	1,980.5	4.1	3.5	-146.10	255.5	5.5	344.0	336.9	7.12	48.337		
2,100.0	2,095.3	2,081.0	2,080.8	4.3	3.6	-146.93	255.0	5.0	350.3	342.8	7.47	46.867		
2,200.0	2,195.0	2,180.4	2,180.2	4.5	3.8	-147.72	254.5	4.4	356.5	348.7	7.83	45.546		
2,300.0	2,294.7	2,279.0	2,278.7	4.7	4.0	-148.52	254.0	3.6	363.1	354.9	8.18	44.385		
2,400.0	2,394.4	2,378.3	2,378.1	4.9	4.2	-149.34	253.8	2.5	369.9	361.4	8.53	43.354		
2,500.0	2,494.1	2,478.2	2,478.0	5.2	4.3	-150.16	253.4	1.2	376.8	367.9	8.88	42.409		
2,600.0	2,593.7	2,577.9	2,577.7	5.4	4.5	-150.98	253.0	-0.3	383.7	374.5	9.24	41.545		
2,700.0	2,693.4	2,677.4	2,677.1	5.6	4.7	-151.77	252.5	-1.8	390.7	381.1	9.59	40.757		
2,800.0	2,793.1	2,776.5	2,776.2	5.8	4.9	-152.54	252.1	-3.4	397.8	387.9	9.94	40.044		
2,900.0	2,892.8	2,876.5	2,876.2	6.0	5.0	-153.32	251.7	-5.2	405.1	394.8	10.29	39.388		
3,000.0	2,992.5	2,975.5	2,975.2	6.3	5.2	-154.08	251.1	-7.1	412.4	401.8	10.63	38.786		
3,100.0	3,092.2	3,074.9	3,074.6	6.5	5.4	-154.80	250.8	-8.9	419.9	408.9	10.98	38.240		
3,200.0	3,191.9	3,175.5	3,175.1	6.7	5.6	-155.47	250.5	-10.5	427.4	416.1	11.33	37.720		
3,300.0	3,291.5	3,275.3	3,274.9	6.9	5.7	-156.09	250.0	-11.8	434.7	423.1	11.68	37.224		
3,400.0	3,391.2	3,373.4	3,373.0	7.2	5.9	-156.68	249.8	-13.2	442.3	430.3	12.02	36.781		
3,500.0	3,490.9	3,471.6	3,471.2	7.4	6.1	-157.28	249.7	-15.0	450.3	437.9	12.37	36.399		
3,600.0	3,590.6	3,571.2	3,570.8	7.6	6.3	-157.88	249.8	-16.9	458.4	445.7	12.72	36.050		
3,700.0	3,690.3	3,670.4	3,670.0	7.8	6.4	-158.42	249.9	-18.6	466.6	453.6	13.06	35.721		
3,800.0	3,790.0	3,769.1	3,768.7	8.0	6.6	-158.94	250.2	-20.3	475.0	461.6	13.41	35.426		
3,900.0	3,889.7	3,869.9	3,867.4	8.3	6.8	-159.40	250.8	-21.8	483.6	469.9	13.75	35.162		
4,000.0	3,989.4	3,965.1	3,964.7	8.5	7.0	-159.81	251.7	-23.2	492.5	478.4	14.10	34.936		
4,100.0	4,089.0	4,062.9	4,062.5	8.7	7.1	-160.22	253.0	-24.8	501.9	487.5	14.44	34.756		
4,200.0	4,188.7	4,160.1	4,159.5	8.9	7.3	-160.61	254.5	-26.7	511.7	496.9	14.78	34.610		
4,300.0	4,288.4	4,253.7	4,253.2	9.2	7.5	-160.97	256.7	-28.7	522.2	507.0	15.12	34.535		
4,400.0	4,388.1	4,349.1	4,348.4	9.4	7.6	-161.30	260.0	-31.1	533.9	518.4	15.46	34.532		
4,500.0	4,487.8	4,448.1	4,447.3	9.6	7.8	-161.60	263.7	-33.5	545.8	530.0	15.81	34.532		
4,600.0	4,587.5	4,547.9	4,547.1	9.8	8.0	-161.88	267.5	-35.9	557.8	541.6	16.15	34.531		
4,700.0	4,687.2	4,649.3	4,648.4	10.0	8.2	-162.16	271.1	-38.2	569.5	553.0	16.50	34.509		
4,800.0	4,786.8	4,750.9	4,749.9	10.3	8.4	-162.43	274.3	-40.3	580.8	563.9	16.85	34.464		
4,900.0	4,886.5	4,852.1	4,851.0	10.5	8.5	-162.68	277.2	-42.2	591.8	574.6	17.20	34.402		
5,000.0	4,986.2	4,952.8	4,951.7	10.7	8.7	-162.94	279.9	-44.0	602.5	585.0	17.55	34.330		

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 3F-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 3F-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	5,085.9	5,053.3	5,052.2	10.9	8.9	-163.19	282.3	-45.9	613.1	595.2	17.90	34.252		
5,200.0	5,185.6	5,154.0	5,152.8	11.2	9.1	-163.43	284.5	-47.6	623.4	605.2	18.25	34.165		
5,300.0	5,285.3	5,254.1	5,252.9	11.4	9.2	-163.66	286.6	-49.2	633.6	615.0	18.59	34.076		
5,400.0	5,385.0	5,353.9	5,352.6	11.6	9.4	-163.87	288.8	-50.6	643.8	624.8	18.94	33.988		
5,500.0	5,484.7	5,454.1	5,452.8	11.8	9.6	-164.07	290.9	-51.9	653.9	634.6	19.29	33.898		
5,600.0	5,584.3	5,554.9	5,553.6	12.1	9.8	-164.25	293.0	-53.0	663.8	644.2	19.64	33.802		
5,700.0	5,684.0	5,655.6	5,654.3	12.3	10.0	-164.42	294.9	-54.0	673.5	653.6	19.99	33.699		
5,800.0	5,783.7	5,755.2	5,753.8	12.5	10.1	-164.58	296.7	-55.0	683.2	662.8	20.33	33.597		
5,900.0	5,883.4	5,859.9	5,858.5	12.7	10.3	-164.76	298.4	-55.9	692.7	672.0	20.69	33.477		
6,000.0	5,983.1	5,963.7	5,962.3	12.9	10.5	-164.92	299.2	-56.2	701.1	680.1	21.04	33.316		
6,100.0	6,082.8	6,064.9	6,063.5	13.2	10.7	-165.07	299.8	-56.3	709.3	687.9	21.39	33.155		
6,200.0	6,182.5	6,164.3	6,162.9	13.4	10.9	-165.23	300.2	-56.5	717.4	695.7	21.74	32.998		
6,300.0	6,282.1	6,263.8	6,262.4	13.6	11.0	-165.39	300.6	-56.8	725.6	703.5	22.09	32.850		
6,400.0	6,381.8	6,363.1	6,361.7	13.8	11.2	-165.55	301.0	-57.2	733.8	711.4	22.43	32.707		
6,500.0	6,481.5	6,462.3	6,460.8	14.1	11.4	-165.71	301.5	-57.6	742.1	719.3	22.78	32.573		
6,600.0	6,581.2	6,561.8	6,560.4	14.3	11.5	-165.87	302.0	-58.0	750.4	727.2	23.13	32.444		
6,700.0	6,680.9	6,661.3	6,659.9	14.5	11.7	-166.02	302.5	-58.4	758.7	735.2	23.48	32.319		
6,800.0	6,780.6	6,761.9	6,760.4	14.7	11.9	-161.87	303.0	-58.8	767.0	743.2	23.83	32.187		
6,900.0	6,880.2	6,862.4	6,861.0	14.8	12.1	-58.42	303.4	-59.0	767.2	743.1	24.10	31.831		
7,000.0	6,977.6	6,960.0	6,958.6	14.9	12.2	-47.09	303.5	-59.5	753.3	729.2	24.04	31.329		
7,100.0	7,069.8	7,052.7	7,051.3	14.8	12.4	-47.12	303.5	-60.1	726.2	702.4	23.80	30.511		
7,200.0	7,154.0	7,137.0	7,135.6	14.7	12.5	-51.25	303.3	-60.8	687.9	664.3	23.64	29.095		
7,300.0	7,227.7	7,210.2	7,208.8	14.6	12.7	-58.24	303.1	-61.5	641.5	617.6	23.87	26.873		
7,400.0	7,288.6	7,271.6	7,270.2	14.7	12.8	-67.34	302.9	-62.0	590.9	566.4	24.58	24.041		
7,500.0	7,334.9	7,318.2	7,316.7	14.8	12.9	-76.87	302.7	-62.4	541.3	515.9	25.47	21.255		
7,600.0	7,365.1	7,348.7	7,347.2	15.1	12.9	-84.72	302.7	-62.6	499.0	472.8	26.22	19.031		
7,700.0	7,378.4	7,362.0	7,360.6	15.7	12.9	-89.25	302.7	-62.6	470.5	443.6	26.88	17.503		
7,794.1	7,380.7	7,364.3	7,362.8	16.3	12.9	-89.77	302.7	-62.6	461.1	433.5	27.60	16.709		
7,800.0	7,379.0	7,362.5	7,361.1	16.3	12.9	-89.76	302.7	-62.6	461.0	433.4	27.64	16.681		
7,900.0	7,379.0	7,362.4	7,361.0	17.2	12.9	-89.75	302.7	-62.6	473.0	444.5	28.56	16.563 SF		
8,000.0	7,379.0	7,362.3	7,360.8	18.2	12.9	-89.73	302.7	-62.6	504.9	475.3	29.61	17.051		
8,100.0	7,379.0	7,362.1	7,360.7	19.2	12.9	-89.71	302.7	-62.6	553.3	522.5	30.78	17.978		
8,200.0	7,379.0	7,362.0	7,360.5	20.4	12.9	-89.70	302.7	-62.6	614.3	582.2	32.03	19.177		
8,300.0	7,379.0	7,361.8	7,360.4	21.7	12.9	-89.68	302.7	-62.6	684.5	651.1	33.36	20.519		
8,400.0	7,379.0	7,361.7	7,360.3	23.0	12.9	-89.66	302.7	-62.6	761.4	726.6	34.75	21.912		
8,500.0	7,379.0	7,361.6	7,360.1	24.3	12.9	-89.64	302.7	-62.6	843.2	807.0	36.18	23.302		
8,600.0	7,379.0	7,361.4	7,360.0	25.8	12.9	-89.63	302.7	-62.6	928.5	890.8	37.66	24.653		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 22-22 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 8112-Geolink MWD													Offset Well Error: 0.0 ft	
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,800.0	7,379.0	7,345.0	7,345.0	44.7	12.8	90.00	2,846.1	1,195.7	964.1	907.1	56.96	16.926		
9,900.0	7,379.0	7,345.0	7,345.0	46.4	12.8	90.00	2,846.1	1,195.7	912.3	853.7	58.64	15.559		
10,000.0	7,379.0	7,345.0	7,345.0	48.0	12.8	90.00	2,846.1	1,195.7	869.1	808.8	60.32	14.407		
10,100.0	7,379.0	7,345.0	7,345.0	49.7	12.8	90.00	2,846.1	1,195.7	835.6	773.6	62.01	13.475		
10,200.0	7,379.0	7,345.0	7,345.0	51.4	12.8	90.00	2,846.1	1,195.7	813.1	749.4	63.71	12.764		
10,300.0	7,379.0	7,345.0	7,345.0	53.1	12.8	90.00	2,846.1	1,195.7	802.6	737.2	65.41	12.271		
10,335.3	7,379.0	7,345.0	7,345.0	53.6	12.8	90.00	2,846.1	1,195.7	801.8	735.8	66.01	12.147 CC, ES		
10,400.0	7,379.0	7,345.0	7,345.0	54.7	12.8	90.00	2,846.1	1,195.7	804.4	737.3	67.11	11.987		
10,500.0	7,379.0	7,345.0	7,345.0	56.4	12.8	90.00	2,846.1	1,195.7	818.5	749.7	68.81	11.895 SF		
10,600.0	7,379.0	7,345.0	7,345.0	58.1	12.8	90.00	2,846.1	1,195.7	844.3	773.8	70.52	11.973		
10,700.0	7,379.0	7,345.0	7,345.0	59.8	12.8	90.00	2,846.1	1,195.7	880.8	808.6	72.23	12.195		
10,800.0	7,379.0	7,345.0	7,345.0	61.5	12.8	90.00	2,846.1	1,195.7	926.7	852.8	73.94	12.533		
10,900.0	7,379.0	7,345.0	7,345.0	63.2	12.8	90.00	2,846.1	1,195.7	980.7	905.0	75.66	12.962		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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							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		
1,200.0	1,198.1	1,434.6	1,415.2	2.3	4.2	-71.75	416.9	888.1	983.2	977.8	5.49	179.127		
1,300.0	1,297.8	1,524.9	1,502.1	2.5	4.6	-71.14	393.5	880.0	960.4	954.4	6.03	159.392		
1,400.0	1,397.5	1,613.5	1,587.6	2.7	5.0	-70.56	371.8	872.6	938.8	932.2	6.55	143.306		
1,500.0	1,497.2	1,711.6	1,682.7	3.0	5.5	-69.98	348.8	864.1	917.6	910.5	7.11	129.080		
1,600.0	1,596.9	1,820.1	1,787.6	3.2	6.0	-69.30	323.2	854.0	895.8	888.1	7.71	116.197		
1,700.0	1,696.6	1,925.2	1,889.0	3.4	6.5	-68.61	297.9	843.1	873.0	864.7	8.31	105.019		
1,800.0	1,796.2	2,021.6	1,981.9	3.6	7.0	-67.93	274.3	832.8	849.8	840.9	8.89	95.572		
1,900.0	1,895.9	2,120.4	2,077.3	3.8	7.5	-67.25	250.9	821.9	826.9	817.4	9.47	87.294		
2,000.0	1,995.6	2,225.6	2,178.7	4.1	8.0	-66.48	225.6	809.4	803.1	793.0	10.10	79.531		
2,100.0	2,095.3	2,319.7	2,269.1	4.3	8.5	-65.69	202.1	798.4	779.1	768.4	10.70	72.833		
2,200.0	2,195.0	2,415.6	2,361.5	4.5	9.0	-64.86	178.6	787.3	755.7	744.4	11.31	66.831		
2,300.0	2,294.7	2,510.2	2,452.5	4.7	9.4	-64.00	155.5	776.4	732.5	720.6	11.93	61.389		
2,400.0	2,394.4	2,614.1	2,552.5	4.9	9.9	-62.99	130.0	764.3	709.3	696.7	12.59	56.330		
2,500.0	2,494.1	2,721.3	2,655.6	5.2	10.5	-61.94	104.0	749.9	684.8	671.5	13.28	51.562		
2,600.0	2,593.7	2,818.3	2,748.4	5.4	11.0	-60.84	79.6	736.5	659.8	645.9	13.95	47.292		
2,700.0	2,693.4	2,913.2	2,839.3	5.6	11.5	-59.72	55.8	723.1	634.8	620.2	14.62	43.417		
2,800.0	2,793.1	3,000.4	2,923.0	5.8	12.0	-58.59	34.1	711.7	611.1	595.9	15.27	40.020		
2,900.0	2,892.8	3,091.4	3,010.6	6.0	12.4	-57.37	12.1	700.9	589.0	573.0	15.95	36.929		
3,000.0	2,992.5	3,190.6	3,106.1	6.3	12.9	-55.86	-12.6	689.5	567.4	550.7	16.71	33.962		
3,100.0	3,092.2	3,292.0	3,203.2	6.5	13.5	-54.09	-38.8	677.2	545.3	527.8	17.51	31.145		
3,200.0	3,191.9	3,390.5	3,297.6	6.7	14.0	-52.29	-63.9	664.5	523.1	504.8	18.30	28.590		
3,300.0	3,291.5	3,483.2	3,386.6	6.9	14.5	-50.54	-86.9	652.4	501.5	482.5	19.05	26.321		
3,400.0	3,391.2	3,580.1	3,479.9	7.2	15.0	-48.63	-110.2	640.2	480.9	461.0	19.83	24.244		
3,500.0	3,490.9	3,681.7	3,577.8	7.4	15.5	-46.59	-133.5	626.5	460.0	439.4	20.62	22.304		
3,600.0	3,590.6	3,773.6	3,666.5	7.6	15.9	-44.71	-153.7	613.8	439.5	418.1	21.35	20.586		
3,700.0	3,690.3	3,858.8	3,749.3	7.8	16.3	-42.92	-171.7	604.2	422.0	400.0	22.02	19.163		
3,800.0	3,790.0	3,958.8	3,846.8	8.0	16.7	-40.96	-190.7	593.3	405.5	382.8	22.72	17.848		
3,900.0	3,889.7	4,051.2	3,937.5	8.3	17.0	-39.43	-205.4	584.1	390.1	366.8	23.31	16.737		
4,000.0	3,989.4	4,145.8	4,031.0	8.5	17.3	-38.13	-218.1	575.9	376.3	352.5	23.85	15.777		
4,100.0	4,089.0	4,242.6	4,126.8	8.7	17.6	-36.97	-229.5	568.4	363.4	339.0	24.37	14.911		
4,200.0	4,188.7	4,340.1	4,223.5	8.9	17.8	-35.95	-239.7	561.5	351.1	326.3	24.85	14.128		
4,300.0	4,288.4	4,441.3	4,324.1	9.2	18.0	-35.21	-247.9	554.6	339.0	313.7	25.29	13.403		
4,400.0	4,388.1	4,536.8	4,419.3	9.4	18.2	-34.90	-253.3	548.4	326.8	301.2	25.65	12.742		
4,500.0	4,487.8	4,634.6	4,516.9	9.6	18.4	-34.78	-257.7	543.2	315.7	289.7	26.01	12.139		
4,600.0	4,587.5	4,733.1	4,615.1	9.8	18.5	-34.75	-261.6	538.2	304.7	278.4	26.34	11.570		
4,700.0	4,687.2	4,827.6	4,709.5	10.0	18.6	-35.04	-263.9	534.8	295.0	268.4	26.62	11.084		
4,800.0	4,786.8	4,924.6	4,806.5	10.3	18.7	-35.68	-264.9	532.6	286.5	259.6	26.85	10.671		
4,900.0	4,886.5	5,023.1	4,905.0	10.5	18.8	-36.65	-264.6	531.4	278.8	251.7	27.06	10.303		
5,000.0	4,986.2	5,123.1	5,005.0	10.7	18.9	-37.83	-263.6	530.1	271.2	243.9	27.25	9.950		
5,100.0	5,085.9	5,223.0	5,104.9	10.9	18.9	-39.15	-262.3	528.8	263.5	236.1	27.44	9.605		
5,200.0	5,185.6	5,322.8	5,204.7	11.2	19.0	-40.51	-261.1	527.3	255.9	228.3	27.61	9.266		
5,300.0	5,285.3	5,421.4	5,303.2	11.4	19.1	-41.96	-259.8	525.9	248.5	220.7	27.78	8.947		
5,400.0	5,385.0	5,520.3	5,402.1	11.6	19.2	-43.58	-258.2	525.0	241.7	213.8	27.92	8.657		
5,500.0	5,484.7	5,620.6	5,502.4	11.8	19.2	-45.33	-256.5	523.9	235.1	207.0	28.06	8.378		
5,600.0	5,584.3	5,720.6	5,602.4	12.1	19.3	-47.15	-255.0	522.6	228.3	200.1	28.18	8.101		
5,700.0	5,684.0	5,820.3	5,702.1	12.3	19.4	-49.05	-253.5	521.1	221.7	193.4	28.30	7.833		
5,800.0	5,783.7	5,920.4	5,802.2	12.5	19.5	-51.03	-252.3	519.4	215.1	186.7	28.41	7.572		
5,900.0	5,883.4	6,020.7	5,902.4	12.7	19.6	-53.00	-251.5	517.5	208.5	180.0	28.52	7.309		
6,000.0	5,983.1	6,119.8	6,001.5	12.9	19.7	-55.02	-251.0	515.6	202.0	173.4	28.62	7.058		
6,100.0	6,082.8	6,218.8	6,100.5	13.2	19.8	-57.23	-250.2	513.8	196.0	167.3	28.69	6.833		
6,200.0	6,182.5	6,317.9	6,199.5	13.4	19.9	-59.63	-249.2	512.3	190.6	161.9	28.73	6.635		
6,300.0	6,282.1	6,417.0	6,298.6	13.6	20.0	-62.21	-248.0	510.9	185.8	157.1	28.75	6.463		

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 3F-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 3F-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						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	
6,400.0	6,381.8	6,516.3	6,397.9	13.8	20.1	-64.79	-247.0	509.8	181.6	152.8	28.78	6.310	
6,500.0	6,481.5	6,615.7	6,497.3	14.1	20.2	-67.39	-246.3	508.9	177.9	149.1	28.81	6.175	
6,600.0	6,581.2	6,715.0	6,596.6	14.3	20.2	-70.13	-245.5	508.2	174.7	145.8	28.82	6.061	
6,700.0	6,680.9	6,814.5	6,696.1	14.5	20.3	-72.98	-244.6	507.4	172.0	143.1	28.82	5.966	
6,800.0	6,780.6	6,914.0	6,795.6	14.7	20.4	-71.59	-243.7	506.8	169.8	140.9	28.83	5.888	
6,900.0	6,880.2	7,013.9	6,895.5	14.8	20.5	32.76	-243.0	506.2	162.6	133.7	28.91	5.623	
7,000.0	6,977.6	7,111.4	6,993.0	14.9	20.6	53.09	-242.6	505.7	146.6	117.0	29.62	4.949	
7,100.0	7,069.8	7,203.6	7,085.2	14.8	20.7	71.88	-242.1	505.3	127.7	96.4	31.29	4.081	
7,179.9	7,137.9	7,271.8	7,153.4	14.7	20.8	90.37	-241.7	505.0	120.2	87.6	32.59	3.687 CC, ES, SF	
7,200.0	7,154.0	7,287.9	7,169.5	14.7	20.8	95.11	-241.6	505.0	120.8	88.1	32.73	3.690	
7,300.0	7,227.7	7,361.9	7,243.5	14.6	20.9	115.45	-241.1	504.8	144.9	112.9	32.00	4.527	
7,400.0	7,288.6	7,423.2	7,304.8	14.7	21.0	127.31	-240.7	504.7	200.9	170.9	30.07	6.683	
7,500.0	7,334.9	7,470.1	7,351.7	14.8	21.0	130.94	-240.4	504.7	277.7	249.0	28.72	9.670	
7,600.0	7,365.1	7,501.1	7,382.7	15.1	21.0	125.45	-240.1	504.8	366.5	337.2	29.36	12.486	
7,700.0	7,378.4	7,515.2	7,396.8	15.7	21.0	102.73	-240.0	504.8	461.9	429.0	32.92	14.031	
7,800.0	7,379.0	7,516.6	7,398.2	16.3	21.0	92.26	-240.0	504.8	559.7	525.5	34.20	16.365	
7,900.0	7,379.0	7,517.4	7,398.9	17.2	21.0	92.69	-240.0	504.8	658.2	623.0	35.11	18.744	
8,000.0	7,379.0	7,518.1	7,399.7	18.2	21.0	93.11	-240.0	504.8	757.0	720.9	36.16	20.937	
8,100.0	7,379.0	7,518.9	7,400.5	19.2	21.0	93.53	-240.0	504.8	856.2	818.9	37.31	22.948	
8,200.0	7,379.0	7,519.7	7,401.3	20.4	21.0	93.96	-240.0	504.8	955.5	916.9	38.55	24.786	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-15.46	267.0	-73.8	277.8					
100.0	100.0	80.0	80.0	0.2	0.1	-15.46	267.0	-73.8	277.0	276.7	0.29	949.852		
200.0	200.0	180.0	180.0	0.3	0.3	-15.46	267.0	-73.8	277.0	276.4	0.64	432.384		
300.0	300.0	280.0	280.0	0.5	0.5	-15.46	267.0	-73.8	277.0	276.1	0.99	279.898 CC, ES		
400.0	400.0	380.0	380.0	0.7	0.7	-148.25	267.0	-73.8	277.8	276.4	1.34	207.464		
500.0	500.0	480.0	480.0	0.9	0.8	-148.52	267.0	-73.8	280.0	278.3	1.69	165.809		
600.0	599.9	579.9	579.9	1.0	1.0	-148.96	267.0	-73.8	283.7	281.7	2.04	139.090		
700.0	699.7	679.7	679.7	1.2	1.2	-149.56	267.0	-73.8	289.0	286.6	2.39	120.755		
800.0	799.4	779.4	779.4	1.4	1.4	-150.29	267.0	-73.8	295.6	292.9	2.75	107.561		
900.0	899.1	879.1	879.1	1.7	1.5	-151.03	267.0	-73.8	302.5	299.4	3.10	97.439		
1,000.0	998.8	978.8	978.8	1.9	1.7	-151.74	267.0	-73.8	309.5	306.0	3.46	89.415		
1,100.0	1,098.4	1,078.4	1,078.4	2.1	1.9	-152.42	267.0	-73.8	316.5	312.6	3.82	82.905		
1,200.0	1,198.1	1,178.1	1,178.1	2.3	2.1	-153.07	267.0	-73.8	323.5	319.3	4.17	77.523		
1,300.0	1,297.8	1,277.8	1,277.8	2.5	2.2	-153.69	267.0	-73.8	330.6	326.1	4.53	73.002		
1,400.0	1,397.5	1,377.5	1,377.5	2.7	2.4	-154.28	267.0	-73.8	337.7	332.8	4.88	69.153		
1,500.0	1,497.2	1,477.2	1,477.2	3.0	2.6	-154.85	267.0	-73.8	344.8	339.6	5.24	65.837		
1,600.0	1,596.9	1,576.9	1,576.9	3.2	2.8	-155.40	267.0	-73.8	352.0	346.4	5.59	62.953		
1,700.0	1,696.6	1,676.6	1,676.6	3.4	2.9	-155.92	267.0	-73.8	359.2	353.3	5.95	60.421		
1,800.0	1,796.2	1,776.2	1,776.2	3.6	3.1	-156.43	267.0	-73.8	366.5	360.2	6.30	58.182		
1,900.0	1,895.9	1,875.9	1,875.9	3.8	3.3	-156.91	267.0	-73.8	373.7	367.1	6.65	56.189		
2,000.0	1,995.6	1,975.6	1,975.6	4.1	3.4	-157.38	267.0	-73.8	381.0	374.0	7.00	54.402		
2,100.0	2,095.3	2,075.3	2,075.3	4.3	3.6	-157.83	267.0	-73.8	388.3	381.0	7.36	52.792		
2,200.0	2,195.0	2,175.0	2,175.0	4.5	3.8	-158.26	267.0	-73.8	395.7	388.0	7.71	51.335		
2,300.0	2,294.7	2,274.7	2,274.7	4.7	4.0	-158.68	267.0	-73.8	403.0	395.0	8.06	50.009		
2,400.0	2,394.4	2,374.4	2,374.4	4.9	4.1	-159.08	267.0	-73.8	410.4	402.0	8.41	48.798		
2,500.0	2,494.1	2,474.1	2,474.1	5.2	4.3	-159.46	267.0	-73.8	417.8	409.1	8.76	47.688		
2,600.0	2,593.7	2,573.7	2,573.7	5.4	4.5	-159.84	267.0	-73.8	425.2	416.1	9.11	46.667		
2,700.0	2,693.4	2,673.4	2,673.4	5.6	4.7	-160.20	267.0	-73.8	432.7	423.2	9.46	45.724		
2,800.0	2,793.1	2,773.1	2,773.1	5.8	4.8	-160.55	267.0	-73.8	440.1	430.3	9.81	44.851		
2,900.0	2,892.8	2,872.8	2,872.8	6.0	5.0	-160.88	267.0	-73.8	447.6	437.4	10.16	44.041		
3,000.0	2,992.5	2,972.5	2,972.5	6.3	5.2	-161.21	267.0	-73.8	455.1	444.6	10.51	43.287		
3,100.0	3,092.2	3,072.2	3,072.2	6.5	5.4	-161.53	267.0	-73.8	462.6	451.7	10.86	42.583		
3,200.0	3,191.9	3,171.9	3,171.9	6.7	5.5	-161.83	267.0	-73.8	470.1	458.9	11.21	41.925		
3,300.0	3,291.5	3,271.5	3,271.5	6.9	5.7	-162.13	267.0	-73.8	477.6	466.1	11.56	41.309		
3,400.0	3,391.2	3,371.2	3,371.2	7.2	5.9	-162.41	267.0	-73.8	485.2	473.2	11.91	40.730		
3,500.0	3,490.9	3,470.9	3,470.9	7.4	6.1	-162.69	267.0	-73.8	492.7	480.4	12.26	40.185		
3,600.0	3,590.6	3,570.6	3,570.6	7.6	6.2	-162.96	267.0	-73.8	500.3	487.7	12.61	39.672		
3,700.0	3,690.3	3,670.3	3,670.3	7.8	6.4	-163.22	267.0	-73.8	507.8	494.9	12.96	39.188		
3,800.0	3,790.0	3,770.0	3,770.0	8.0	6.6	-163.48	267.0	-73.8	515.4	502.1	13.31	38.730		
3,900.0	3,889.7	3,869.7	3,869.7	8.3	6.8	-163.72	267.0	-73.8	523.0	509.3	13.66	38.296		
4,000.0	3,989.4	3,969.4	3,969.4	8.5	6.9	-163.96	267.0	-73.8	530.6	516.6	14.01	37.885		
4,100.0	4,089.0	4,069.0	4,069.0	8.7	7.1	-164.19	267.0	-73.8	538.2	523.9	14.35	37.495		
4,200.0	4,188.7	4,168.7	4,168.7	8.9	7.3	-164.42	267.0	-73.8	545.8	531.1	14.70	37.124		
4,300.0	4,288.4	4,268.4	4,268.4	9.2	7.4	-164.64	267.0	-73.8	553.5	538.4	15.05	36.771		
4,400.0	4,388.1	4,368.1	4,368.1	9.4	7.6	-164.85	267.0	-73.8	561.1	545.7	15.40	36.435		
4,500.0	4,487.8	4,467.8	4,467.8	9.6	7.8	-165.06	267.0	-73.8	568.7	553.0	15.75	36.114		
4,600.0	4,587.5	4,567.5	4,567.5	9.8	8.0	-165.27	267.0	-73.8	576.4	560.3	16.10	35.807		
4,700.0	4,687.2	4,667.2	4,667.2	10.0	8.1	-165.46	267.0	-73.8	584.0	567.6	16.44	35.514		
4,800.0	4,786.8	4,766.8	4,766.8	10.3	8.3	-165.65	267.0	-73.8	591.7	574.9	16.79	35.234		
4,900.0	4,886.5	4,866.5	4,866.5	10.5	8.5	-165.84	267.0	-73.8	599.4	582.2	17.14	34.966		
5,000.0	4,986.2	4,966.2	4,966.2	10.7	8.7	-166.02	267.0	-73.8	607.0	589.5	17.49	34.708		
5,100.0	5,085.9	5,039.0	5,039.0	10.9	8.8	-166.16	267.0	-73.8	615.3	597.5	17.79	34.584 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 3F-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 3F-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

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		
5,200.0	5,185.6	5,039.0	5,039.0	11.2	8.8	-166.16	267.0	-73.8	635.1	617.2	17.97	35.346		
5,300.0	5,285.3	5,039.0	5,039.0	11.4	8.8	-166.16	267.0	-73.8	669.5	651.3	18.15	36.892		
5,400.0	5,385.0	5,039.0	5,039.0	11.6	8.8	-166.16	267.0	-73.8	716.3	697.9	18.32	39.087		
5,500.0	5,484.7	5,039.0	5,039.0	11.8	8.8	-166.16	267.0	-73.8	773.2	754.7	18.50	41.789		
5,600.0	5,584.3	5,039.0	5,039.0	12.1	8.8	-166.16	267.0	-73.8	838.2	819.6	18.68	44.873		
5,700.0	5,684.0	5,039.0	5,039.0	12.3	8.8	-166.16	267.0	-73.8	909.6	890.8	18.86	48.236		
5,800.0	5,783.7	5,039.0	5,039.0	12.5	8.8	-166.16	267.0	-73.8	986.0	967.0	19.04	51.799		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 GAS UNIT 1 (EXISTING) - ENCANA WELL - NO SURVE										Offset Site Error:		0.0 ft	
Survey Program: 8140-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
7,200.0	7,154.0	7,150.0	7,150.0	14.7	12.5	33.70	623.3	915.9	995.5	971.0	24.49	40.657	
7,300.0	7,227.7	7,223.7	7,223.7	14.6	12.6	41.79	623.3	915.9	936.9	913.1	23.76	39.427	
7,400.0	7,288.6	7,284.6	7,284.6	14.7	12.7	52.25	623.3	915.9	870.5	846.7	23.76	36.631	
7,500.0	7,334.9	7,330.9	7,330.9	14.8	12.8	64.78	623.3	915.9	799.8	775.1	24.68	32.400	
7,600.0	7,365.1	7,361.1	7,361.1	15.1	12.8	77.52	623.3	915.9	728.9	703.0	25.95	28.087	
7,700.0	7,378.4	7,374.4	7,374.4	15.7	12.9	87.88	623.3	915.9	662.5	635.7	26.88	24.645	
7,800.0	7,379.0	7,375.0	7,375.0	16.3	12.9	90.00	623.3	915.9	605.3	577.6	27.64	21.898	
7,900.0	7,379.0	7,375.0	7,375.0	17.2	12.9	90.00	623.3	915.9	560.1	531.6	28.56	19.612	
8,000.0	7,379.0	7,375.0	7,375.0	18.2	12.9	90.00	623.3	915.9	530.2	500.6	29.61	17.905	
8,100.0	7,379.0	7,375.0	7,375.0	19.2	12.9	90.00	623.3	915.9	518.2	487.5	30.78	16.837	
8,113.0	7,379.0	7,375.0	7,375.0	19.4	12.9	90.00	623.3	915.9	518.1	487.1	30.94	16.743 CC, ES	
8,200.0	7,379.0	7,375.0	7,375.0	20.4	12.9	90.00	623.3	915.9	525.3	493.3	32.03	16.399 SF	
8,300.0	7,379.0	7,375.0	7,375.0	21.7	12.9	90.00	623.3	915.9	550.8	517.4	33.36	16.510	
8,400.0	7,379.0	7,375.0	7,375.0	23.0	12.9	90.00	623.3	915.9	592.3	557.5	34.75	17.044	
8,500.0	7,379.0	7,375.0	7,375.0	24.3	12.9	90.00	623.3	915.9	646.7	610.5	36.19	17.870	
8,600.0	7,379.0	7,375.0	7,375.0	25.8	12.9	90.00	623.3	915.9	711.1	673.4	37.67	18.878	
8,700.0	7,379.0	7,375.0	7,375.0	27.2	12.9	90.00	623.3	915.9	782.9	743.8	39.18	19.984	
8,800.0	7,379.0	7,375.0	7,375.0	28.7	12.9	90.00	623.3	915.9	860.5	819.8	40.72	21.132	
8,900.0	7,379.0	7,375.0	7,375.0	30.2	12.9	90.00	623.3	915.9	942.2	900.0	42.28	22.284	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.59	0.4	-50.1	50.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.59	0.4	-50.1	50.1	49.8	0.30	164.848		
200.0	200.0	200.0	200.0	0.3	0.3	-89.59	0.4	-50.1	50.1	49.4	0.65	76.694 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	-90.27	-0.2	-50.7	50.7	49.7	1.00	50.606		
400.0	400.0	398.7	398.6	0.7	0.7	135.74	-2.0	-52.6	53.2	51.9	1.35	39.384		
500.0	500.0	497.8	497.7	0.9	0.9	134.65	-5.0	-55.7	58.3	56.6	1.71	34.178		
600.0	599.9	596.7	596.4	1.0	1.1	133.84	-9.1	-60.0	66.0	63.9	2.07	31.881		
700.0	699.7	695.8	695.2	1.2	1.3	133.41	-14.3	-65.4	75.9	73.5	2.44	31.114		
800.0	799.4	795.1	794.2	1.4	1.5	133.76	-19.6	-71.0	87.1	84.3	2.82	30.895		
900.0	899.1	894.5	893.3	1.7	1.7	134.17	-24.9	-76.5	98.5	95.3	3.20	30.744		
1,000.0	998.8	993.8	992.3	1.9	1.9	134.49	-30.2	-82.1	109.9	106.3	3.59	30.607		
1,100.0	1,098.4	1,093.2	1,091.4	2.1	2.1	134.76	-35.5	-87.6	121.3	117.3	3.98	30.484		
1,200.0	1,198.1	1,192.5	1,190.4	2.3	2.3	134.97	-40.9	-93.2	132.6	128.3	4.37	30.376		
1,300.0	1,297.8	1,291.9	1,289.5	2.5	2.6	135.16	-46.2	-98.8	144.0	139.3	4.76	30.280		
1,400.0	1,397.5	1,391.2	1,388.5	2.7	2.8	135.31	-51.5	-104.3	155.4	150.3	5.15	30.194		
1,500.0	1,497.2	1,490.6	1,487.6	3.0	3.0	135.45	-56.8	-109.9	166.8	161.3	5.54	30.119		
1,600.0	1,596.9	1,589.9	1,586.6	3.2	3.2	135.57	-62.1	-115.4	178.2	172.3	5.93	30.051		
1,700.0	1,696.6	1,689.3	1,685.7	3.4	3.4	135.67	-67.4	-121.0	189.6	183.3	6.32	29.990		
1,800.0	1,796.2	1,788.6	1,784.7	3.6	3.6	135.76	-72.7	-126.6	201.0	194.2	6.71	29.935		
1,900.0	1,895.9	1,888.0	1,883.8	3.8	3.9	135.85	-78.0	-132.1	212.3	205.2	7.11	29.885		
2,000.0	1,995.6	1,987.3	1,982.9	4.1	4.1	135.92	-83.4	-137.7	223.7	216.2	7.50	29.839		
2,100.0	2,095.3	2,086.7	2,081.9	4.3	4.3	135.99	-88.7	-143.3	235.1	227.2	7.89	29.798		
2,200.0	2,195.0	2,186.0	2,181.0	4.5	4.5	136.05	-94.0	-148.8	246.5	238.2	8.28	29.760		
2,300.0	2,294.7	2,285.4	2,280.0	4.7	4.7	136.10	-99.3	-154.4	257.9	249.2	8.68	29.725		
2,400.0	2,394.4	2,384.7	2,379.1	4.9	5.0	136.15	-104.6	-159.9	269.3	260.2	9.07	29.692		
2,500.0	2,494.1	2,484.1	2,478.1	5.2	5.2	136.20	-109.9	-165.5	280.7	271.2	9.46	29.662		
2,600.0	2,593.7	2,583.4	2,577.2	5.4	5.4	136.24	-115.2	-171.1	292.1	282.2	9.86	29.635		
2,700.0	2,693.4	2,682.8	2,676.2	5.6	5.6	136.28	-120.5	-176.6	303.5	293.2	10.25	29.609		
2,800.0	2,793.1	2,782.1	2,775.3	5.8	5.8	136.32	-125.9	-182.2	314.9	304.2	10.64	29.585		
2,900.0	2,892.8	2,881.5	2,874.3	6.0	6.0	136.35	-131.2	-187.7	326.2	315.2	11.04	29.562		
3,000.0	2,992.5	2,980.8	2,973.4	6.3	6.3	136.38	-136.5	-193.3	337.6	326.2	11.43	29.541		
3,100.0	3,092.2	3,080.2	3,072.4	6.5	6.5	136.41	-141.8	-198.9	349.0	337.2	11.82	29.522		
3,200.0	3,191.9	3,179.5	3,171.5	6.7	6.7	136.44	-147.1	-204.4	360.4	348.2	12.22	29.503		
3,300.0	3,291.5	3,278.9	3,270.5	6.9	6.9	136.47	-152.4	-210.0	371.8	359.2	12.61	29.485		
3,400.0	3,391.2	3,378.2	3,369.6	7.2	7.1	136.49	-157.7	-215.5	383.2	370.2	13.00	29.469		
3,500.0	3,490.9	3,477.6	3,468.6	7.4	7.4	136.52	-163.0	-221.1	394.6	381.2	13.40	29.453		
3,600.0	3,590.6	3,576.9	3,567.7	7.6	7.6	136.54	-168.4	-226.7	406.0	392.2	13.79	29.438		
3,700.0	3,690.3	3,676.3	3,666.7	7.8	7.8	136.56	-173.7	-232.2	417.4	403.2	14.18	29.424		
3,800.0	3,790.0	3,775.6	3,765.8	8.0	8.0	136.58	-179.0	-237.8	428.8	414.2	14.58	29.411		
3,900.0	3,889.7	3,875.0	3,864.8	8.3	8.2	136.60	-184.3	-243.4	440.2	425.2	14.97	29.398		
4,000.0	3,989.4	3,974.3	3,963.9	8.5	8.5	136.61	-189.6	-248.9	451.5	436.2	15.37	29.386		
4,100.0	4,089.0	4,073.7	4,062.9	8.7	8.7	136.63	-194.9	-254.5	462.9	447.2	15.76	29.375		
4,200.0	4,188.7	4,173.0	4,162.0	8.9	8.9	136.65	-200.2	-260.0	474.3	458.2	16.15	29.364		
4,300.0	4,288.4	4,272.4	4,261.0	9.2	9.1	136.66	-205.6	-265.6	485.7	469.2	16.55	29.354		
4,400.0	4,388.1	4,371.7	4,360.1	9.4	9.3	136.68	-210.9	-271.2	497.1	480.2	16.94	29.344		
4,500.0	4,487.8	4,471.1	4,459.1	9.6	9.6	136.69	-216.2	-276.7	508.5	491.2	17.33	29.334		
4,600.0	4,587.5	4,570.4	4,558.2	9.8	9.8	136.70	-221.5	-282.3	519.9	502.2	17.73	29.325		
4,700.0	4,687.2	4,669.7	4,657.2	10.0	10.0	136.72	-226.8	-287.8	531.3	513.2	18.12	29.316		
4,800.0	4,786.8	4,769.1	4,756.3	10.3	10.2	136.73	-232.1	-293.4	542.7	524.2	18.52	29.308		
4,900.0	4,886.5	4,868.4	4,855.3	10.5	10.4	136.74	-237.4	-299.0	554.1	535.2	18.91	29.300		
5,000.0	4,986.2	4,967.8	4,954.4	10.7	10.6	136.75	-242.7	-304.5	565.5	546.2	19.30	29.292		
5,100.0	5,085.9	5,067.1	5,053.4	10.9	10.9	136.76	-248.1	-310.1	576.9	557.2	19.70	29.284		

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 3F-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 3F-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			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)				
5,200.0	5,185.6	5,166.5	5,152.5	11.2	11.1	136.77	-253.4	-315.6	588.2	568.1	20.09	29.277		
5,300.0	5,285.3	5,265.8	5,251.5	11.4	11.3	136.78	-258.7	-321.2	599.6	579.1	20.49	29.270		
5,400.0	5,385.0	5,365.2	5,350.6	11.6	11.5	136.79	-264.0	-326.8	611.0	590.1	20.88	29.264		
5,500.0	5,484.7	5,464.5	5,449.6	11.8	11.7	136.80	-269.3	-332.3	622.4	601.1	21.27	29.257		
5,600.0	5,584.3	5,563.9	5,548.7	12.1	12.0	136.81	-274.6	-337.9	633.8	612.1	21.67	29.251		
5,700.0	5,684.0	5,663.2	5,647.7	12.3	12.2	136.82	-279.9	-343.5	645.2	623.1	22.06	29.245		
5,800.0	5,783.7	5,762.6	5,746.8	12.5	12.4	136.83	-285.2	-349.0	656.6	634.1	22.46	29.239		
5,900.0	5,883.4	5,861.9	5,845.8	12.7	12.6	136.84	-290.6	-354.6	668.0	645.1	22.85	29.234		
6,000.0	5,983.1	5,961.3	5,944.9	12.9	12.8	136.84	-295.9	-360.1	679.4	656.1	23.24	29.228		
6,100.0	6,082.8	6,060.6	6,043.9	13.2	13.1	136.85	-301.2	-365.7	690.8	667.1	23.64	29.223		
6,200.0	6,182.5	6,160.0	6,143.0	13.4	13.3	136.86	-306.5	-371.3	702.2	678.1	24.03	29.218		
6,300.0	6,282.1	6,259.3	6,242.0	13.6	13.5	136.86	-311.8	-376.8	713.6	689.1	24.43	29.213		
6,400.0	6,381.8	6,358.7	6,341.1	13.8	13.7	136.87	-317.1	-382.4	724.9	700.1	24.82	29.208		
6,500.0	6,481.5	6,458.0	6,440.1	14.1	13.9	136.88	-322.4	-387.9	736.3	711.1	25.21	29.204		
6,600.0	6,581.2	6,557.4	6,539.2	14.3	14.2	136.88	-327.7	-393.5	747.7	722.1	25.61	29.199		
6,700.0	6,680.9	6,656.7	6,638.2	14.5	14.4	136.89	-333.1	-399.1	759.1	733.1	26.00	29.195		
6,800.0	6,780.6	6,756.1	6,737.3	14.7	14.6	141.22	-338.4	-404.6	770.5	744.1	26.40	29.191		
6,900.0	6,880.2	6,854.9	6,835.8	14.8	14.8	-114.34	-343.7	-410.2	782.0	755.3	26.80	29.306		
7,000.0	6,977.6	6,954.2	6,934.8	14.9	15.0	-101.19	-342.2	-415.8	793.7	766.9	26.77	29.649		
7,100.0	7,069.8	7,057.2	7,035.7	14.8	15.0	-97.63	-322.7	-421.8	805.4	778.8	26.63	30.240		
7,200.0	7,154.0	7,164.4	7,135.1	14.7	14.9	-96.16	-283.6	-427.9	816.8	790.5	26.36	30.985		
7,300.0	7,227.7	7,276.0	7,229.0	14.6	14.8	-95.45	-223.9	-434.0	827.4	801.4	26.07	31.735		
7,400.0	7,288.6	7,391.9	7,312.5	14.7	14.8	-95.10	-143.9	-439.7	836.8	810.9	25.93	32.274		
7,500.0	7,334.9	7,511.9	7,380.0	14.8	14.8	-94.92	-45.2	-444.7	844.4	818.3	26.11	32.340		
7,600.0	7,365.1	7,635.1	7,426.5	15.1	15.1	-94.81	68.5	-448.7	849.9	823.2	26.77	31.749		
7,700.0	7,378.4	7,760.4	7,447.9	15.7	15.7	-94.73	191.7	-451.5	853.0	825.0	27.97	30.493		
7,800.0	7,379.0	7,867.7	7,449.0	16.3	16.4	-94.70	299.0	-452.8	854.1	824.6	29.53	28.924		
7,900.0	7,379.0	7,967.7	7,449.0	17.2	17.2	-94.70	399.0	-454.1	855.2	823.8	31.34	27.284		
8,000.0	7,379.0	8,067.7	7,449.0	18.2	18.2	-94.69	499.0	-455.3	856.2	822.8	33.43	25.616		
8,100.0	7,379.0	8,167.7	7,449.0	19.2	19.3	-94.68	599.0	-456.5	857.3	821.6	35.73	23.994		
8,200.0	7,379.0	8,267.7	7,449.0	20.4	20.4	-94.68	699.0	-457.7	858.3	820.1	38.21	22.461		
8,300.0	7,379.0	8,367.7	7,449.0	21.7	21.7	-94.67	799.0	-458.9	859.4	818.5	40.85	21.038		
8,400.0	7,379.0	8,467.7	7,449.0	23.0	23.0	-94.67	899.0	-460.2	860.4	816.8	43.60	19.733		
8,500.0	7,379.0	8,567.7	7,449.0	24.3	24.4	-94.66	998.9	-461.4	861.5	815.0	46.46	18.542		
8,600.0	7,379.0	8,667.7	7,449.0	25.8	25.8	-94.66	1,098.9	-462.6	862.5	813.1	49.40	17.461		
8,700.0	7,379.0	8,767.7	7,449.0	27.2	27.2	-94.65	1,198.9	-463.8	863.5	811.1	52.40	16.479		
8,800.0	7,379.0	8,867.7	7,449.0	28.7	28.7	-94.64	1,298.9	-465.1	864.6	809.1	55.47	15.587		
8,900.0	7,379.0	8,967.7	7,449.0	30.2	30.2	-94.64	1,398.9	-466.3	865.6	807.0	58.58	14.777		
9,000.0	7,379.0	9,067.7	7,449.0	31.8	31.8	-94.63	1,498.9	-467.5	866.7	804.9	61.73	14.039		
9,100.0	7,379.0	9,167.7	7,449.0	33.3	33.3	-94.63	1,598.9	-468.7	867.7	802.8	64.92	13.365		
9,200.0	7,379.0	9,267.6	7,449.0	34.9	34.9	-94.62	1,698.9	-469.9	868.8	800.6	68.14	12.749		
9,300.0	7,379.0	9,367.6	7,449.0	36.5	36.5	-94.62	1,798.8	-471.2	869.8	798.4	71.39	12.184		
9,400.0	7,379.0	9,467.6	7,449.0	38.1	38.1	-94.61	1,898.8	-472.4	870.8	796.2	74.66	11.664		
9,500.0	7,379.0	9,567.6	7,449.0	39.8	39.7	-94.61	1,998.8	-473.6	871.9	793.9	77.95	11.186		
9,600.0	7,379.0	9,667.6	7,449.0	41.4	41.4	-94.60	2,098.8	-474.8	872.9	791.7	81.25	10.743		
9,700.0	7,379.0	9,767.6	7,449.0	43.0	43.0	-94.59	2,198.8	-476.0	874.0	789.4	84.57	10.334		
9,800.0	7,379.0	9,867.6	7,449.0	44.7	44.7	-94.59	2,298.8	-477.3	875.0	787.1	87.91	9.954		
9,900.0	7,379.0	9,967.6	7,449.0	46.4	46.3	-94.58	2,398.8	-478.5	876.1	784.8	91.26	9.600		
10,000.0	7,379.0	10,067.6	7,449.0	48.0	48.0	-94.58	2,498.7	-479.7	877.1	782.5	94.62	9.270		
10,100.0	7,379.0	10,167.6	7,449.0	49.7	49.6	-94.57	2,598.7	-480.9	878.2	780.2	97.98	8.962		
10,200.0	7,379.0	10,267.6	7,449.0	51.4	51.3	-94.57	2,698.7	-482.2	879.2	777.8	101.36	8.674		
10,300.0	7,379.0	10,367.6	7,449.0	53.1	53.0	-94.56	2,798.7	-483.4	880.2	775.5	104.75	8.404		

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 3F-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 3F-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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,379.0	10,467.6	7,449.0	54.7	54.7	-94.56	2,898.7	-484.6	881.3	773.1	108.14	8.150		
10,500.0	7,379.0	10,567.6	7,449.0	56.4	56.4	-94.55	2,998.7	-485.8	882.3	770.8	111.54	7.911		
10,600.0	7,379.0	10,667.6	7,449.0	58.1	58.1	-94.55	3,098.7	-487.0	883.4	768.4	114.94	7.685		
10,700.0	7,379.0	10,767.6	7,449.0	59.8	59.8	-94.54	3,198.7	-488.3	884.4	766.1	118.35	7.473		
10,800.0	7,379.0	10,867.6	7,449.0	61.5	61.5	-94.53	3,298.6	-489.5	885.5	763.7	121.77	7.272		
10,900.0	7,379.0	10,967.6	7,449.0	63.2	63.2	-94.53	3,398.6	-490.7	886.5	761.3	125.19	7.081		
11,000.0	7,379.0	11,067.5	7,449.0	64.9	64.9	-94.52	3,498.6	-491.9	887.5	758.9	128.61	6.901		
11,100.0	7,379.0	11,167.5	7,449.0	66.6	66.6	-94.52	3,598.6	-493.1	888.6	756.5	132.04	6.730		
11,200.0	7,379.0	11,267.5	7,449.0	68.4	68.3	-94.51	3,698.6	-494.4	889.6	754.2	135.47	6.567		
11,300.0	7,379.0	11,367.5	7,449.0	70.1	70.0	-94.51	3,798.6	-495.6	890.7	751.8	138.91	6.412		
11,400.0	7,379.0	11,467.5	7,449.0	71.8	71.7	-94.50	3,898.6	-496.8	891.7	749.4	142.34	6.265		
11,500.0	7,379.0	11,567.5	7,449.0	73.5	73.4	-94.50	3,998.6	-498.0	892.8	747.0	145.78	6.124		
11,600.0	7,379.0	11,667.5	7,449.0	75.2	75.2	-94.49	4,098.5	-499.3	893.8	744.6	149.23	5.990		
11,700.0	7,379.0	11,767.5	7,449.0	76.9	76.9	-94.49	4,198.5	-500.5	894.9	742.2	152.67	5.861		
11,800.0	7,379.0	11,867.5	7,449.0	78.7	78.6	-94.48	4,298.5	-501.7	895.9	739.8	156.12	5.738		
11,900.0	7,379.0	11,967.5	7,449.0	80.4	80.3	-94.48	4,398.5	-502.9	896.9	737.4	159.57	5.621		
12,000.0	7,379.0	12,067.5	7,449.0	82.1	82.1	-94.47	4,498.5	-504.1	898.0	735.0	163.03	5.508		
12,100.0	7,379.0	12,167.5	7,449.0	83.8	83.8	-94.47	4,598.5	-505.4	899.0	732.5	166.48	5.400		
12,200.0	7,379.0	12,267.5	7,449.0	85.6	85.5	-94.46	4,698.5	-506.6	900.1	730.1	169.94	5.296		
12,300.0	7,379.0	12,367.5	7,449.0	87.3	87.2	-94.46	4,798.4	-507.8	901.1	727.7	173.40	5.197		
12,400.0	7,379.0	12,467.5	7,449.0	89.0	89.0	-94.45	4,898.4	-509.0	902.2	725.3	176.86	5.101		
12,500.0	7,379.0	12,567.5	7,449.0	90.8	90.7	-94.45	4,998.4	-510.2	903.2	722.9	180.32	5.009		
12,600.0	7,379.0	12,667.5	7,449.0	92.5	92.4	-94.44	5,098.4	-511.5	904.2	720.5	183.78	4.920		
12,700.0	7,379.0	12,767.4	7,449.0	94.2	94.2	-94.43	5,198.4	-512.7	906.9	719.7	187.17	4.845		
12,800.0	7,379.0	12,867.4	7,449.0	96.0	95.9	-94.41	5,298.3	-513.9	910.3	719.6	190.64	4.775		
12,900.0	7,379.0	12,967.3	7,449.0	97.7	97.6	-94.40	5,398.2	-515.1	913.6	719.5	194.11	4.707		
13,000.0	7,379.0	13,067.3	7,449.0	99.4	99.4	-94.38	5,498.2	-516.4	917.0	719.4	197.58	4.641		
13,100.0	7,379.0	13,167.2	7,449.0	101.2	101.1	-94.36	5,598.1	-517.6	920.3	719.3	201.05	4.578		
13,200.0	7,379.0	13,267.1	7,449.0	102.9	102.8	-94.35	5,698.0	-518.8	923.7	719.2	204.52	4.516		
13,300.0	7,379.0	13,367.1	7,449.0	104.6	104.6	-94.33	5,798.0	-520.0	927.1	719.1	207.99	4.457		
13,400.0	7,379.0	13,467.0	7,449.0	106.4	106.3	-94.32	5,897.9	-521.2	930.4	718.9	211.47	4.400		
13,500.0	7,379.0	13,567.0	7,449.0	108.1	108.0	-94.30	5,997.9	-522.5	933.8	718.8	214.94	4.344		
13,600.0	7,379.0	13,666.9	7,449.0	109.9	109.8	-94.29	6,097.8	-523.7	937.1	718.7	218.42	4.291		
13,700.0	7,379.0	13,766.9	7,449.0	111.6	111.5	-94.27	6,197.7	-524.9	940.5	718.6	221.89	4.238		
13,800.0	7,379.0	13,866.8	7,449.0	113.3	113.2	-94.26	6,297.7	-526.1	943.8	718.5	225.37	4.188		
13,900.0	7,379.0	13,966.7	7,449.0	115.1	115.0	-94.24	6,397.6	-527.3	947.2	718.3	228.85	4.139		
14,000.0	7,379.0	14,066.7	7,449.0	116.8	116.7	-94.23	6,497.5	-528.6	950.6	718.2	232.33	4.091		
14,100.0	7,379.0	14,166.6	7,449.0	118.6	118.5	-94.21	6,597.5	-529.8	953.9	718.1	235.81	4.045		
14,200.0	7,379.0	14,266.6	7,449.0	120.3	120.2	-94.20	6,697.4	-531.0	957.3	718.0	239.29	4.000		
14,300.0	7,379.0	14,366.5	7,449.0	122.1	121.9	-94.18	6,797.3	-532.2	960.6	717.9	242.77	3.957		
14,400.0	7,379.0	14,466.5	7,449.0	123.8	123.7	-94.17	6,897.3	-533.4	964.0	717.7	246.25	3.915		
14,500.0	7,379.0	14,566.4	7,449.0	125.5	125.4	-94.15	6,997.2	-534.7	967.3	717.6	249.73	3.873		
14,600.0	7,379.0	14,666.3	7,449.0	127.3	127.2	-94.14	7,097.1	-535.9	970.7	717.5	253.22	3.833		
14,700.0	7,379.0	14,766.3	7,449.0	129.0	128.9	-94.12	7,197.1	-537.1	974.1	717.4	256.70	3.795		
14,800.0	7,379.0	14,866.2	7,449.0	130.8	130.6	-94.11	7,297.0	-538.3	977.4	717.2	260.19	3.757		
14,900.0	7,379.0	14,966.2	7,449.0	132.5	132.4	-94.10	7,397.0	-539.5	980.8	717.1	263.67	3.720		
15,000.0	7,379.0	15,066.1	7,449.0	134.3	134.1	-94.08	7,496.9	-540.8	984.1	717.0	267.16	3.684		
15,096.7	7,379.0	15,162.8	7,449.0	136.0	135.8	-94.07	7,593.6	-542.0	987.4	716.9	270.53	3.650 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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: O-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)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.48	0.4	-40.0	40.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.48	0.4	-40.0	40.0	39.7	0.30	131.696		
200.0	200.0	200.0	200.0	0.3	0.3	-89.48	0.4	-40.0	40.0	39.3	0.65	61.270		
300.0	300.0	300.0	300.0	0.5	0.5	-89.48	0.4	-40.0	40.0	39.0	1.00	39.922 CC, ES		
400.0	400.0	399.6	399.6	0.7	0.7	137.60	-0.4	-40.5	41.1	39.7	1.35	30.422		
500.0	500.0	499.2	499.1	0.9	0.9	137.00	-2.6	-41.8	44.4	42.7	1.70	26.067		
600.0	599.9	598.6	598.4	1.0	1.0	136.18	-6.2	-44.1	49.9	47.9	2.06	24.193		
700.0	699.7	698.0	697.7	1.2	1.2	135.40	-11.2	-47.3	57.6	55.2	2.44	23.661		
800.0	799.4	797.6	797.1	1.4	1.4	135.53	-16.5	-50.6	66.6	63.8	2.81	23.665		
900.0	899.1	897.1	896.4	1.7	1.6	135.78	-21.8	-54.0	75.7	72.5	3.20	23.692		
1,000.0	998.8	996.7	995.8	1.9	1.8	135.99	-27.0	-57.3	84.9	81.3	3.58	23.697		
1,100.0	1,098.4	1,096.3	1,095.2	2.1	2.0	136.15	-32.3	-60.6	94.0	90.1	3.97	23.691		
1,200.0	1,198.1	1,195.9	1,194.6	2.3	2.2	136.28	-37.6	-64.0	103.2	98.8	4.36	23.679		
1,300.0	1,297.8	1,295.5	1,294.0	2.5	2.4	136.39	-42.9	-67.3	112.3	107.6	4.75	23.664		
1,400.0	1,397.5	1,395.0	1,393.4	2.7	2.6	136.49	-48.1	-70.6	121.5	116.4	5.14	23.648		
1,500.0	1,497.2	1,494.6	1,492.7	3.0	2.8	136.57	-53.4	-74.0	130.6	125.1	5.53	23.632		
1,600.0	1,596.9	1,594.2	1,592.1	3.2	3.0	136.64	-58.7	-77.3	139.8	133.9	5.92	23.616		
1,700.0	1,696.6	1,693.8	1,691.5	3.4	3.2	136.70	-64.0	-80.7	148.9	142.6	6.31	23.601		
1,800.0	1,796.2	1,793.4	1,790.9	3.6	3.4	136.76	-69.3	-84.0	158.1	151.4	6.70	23.586		
1,900.0	1,895.9	1,892.9	1,890.3	3.8	3.6	136.81	-74.5	-87.3	167.2	160.2	7.10	23.572		
2,000.0	1,995.6	1,992.5	1,989.7	4.1	3.9	136.85	-79.8	-90.7	176.4	168.9	7.49	23.559		
2,100.0	2,095.3	2,092.1	2,089.0	4.3	4.1	136.89	-85.1	-94.0	185.6	177.7	7.88	23.547		
2,200.0	2,195.0	2,191.7	2,188.4	4.5	4.3	136.93	-90.4	-97.3	194.7	186.4	8.27	23.535		
2,300.0	2,294.7	2,291.3	2,287.8	4.7	4.5	136.96	-95.6	-100.7	203.9	195.2	8.67	23.524		
2,400.0	2,394.4	2,390.8	2,387.2	4.9	4.7	136.99	-100.9	-104.0	213.0	203.9	9.06	23.514		
2,500.0	2,494.1	2,490.4	2,486.6	5.2	4.9	137.02	-106.2	-107.3	222.2	212.7	9.45	23.505		
2,600.0	2,593.7	2,590.0	2,586.0	5.4	5.1	137.04	-111.5	-110.7	231.3	221.5	9.85	23.495		
2,700.0	2,693.4	2,689.6	2,685.4	5.6	5.3	137.07	-116.7	-114.0	240.5	230.2	10.24	23.487		
2,800.0	2,793.1	2,789.2	2,784.7	5.8	5.5	137.09	-122.0	-117.3	249.6	239.0	10.63	23.479		
2,900.0	2,892.8	2,888.7	2,884.1	6.0	5.7	137.11	-127.3	-120.7	258.8	247.7	11.03	23.471		
3,000.0	2,992.5	2,988.3	2,983.5	6.3	5.9	137.13	-132.6	-124.0	267.9	256.5	11.42	23.464		
3,100.0	3,092.2	3,087.9	3,082.9	6.5	6.1	137.15	-137.8	-127.3	277.1	265.3	11.81	23.457		
3,200.0	3,191.9	3,187.5	3,182.3	6.7	6.3	137.16	-143.1	-130.7	286.2	274.0	12.21	23.450		
3,300.0	3,291.5	3,287.1	3,281.7	6.9	6.5	137.18	-148.4	-134.0	295.4	282.8	12.60	23.444		
3,400.0	3,391.2	3,386.6	3,381.0	7.2	6.7	137.19	-153.7	-137.3	304.5	291.5	12.99	23.438		
3,500.0	3,490.9	3,486.2	3,480.4	7.4	6.9	137.21	-159.0	-140.7	313.7	300.3	13.39	23.433		
3,600.0	3,590.6	3,585.8	3,579.8	7.6	7.1	137.22	-164.2	-144.0	322.8	309.1	13.78	23.427		
3,700.0	3,690.3	3,685.4	3,679.2	7.8	7.3	137.23	-169.5	-147.3	332.0	317.8	14.17	23.422		
3,800.0	3,790.0	3,785.0	3,778.6	8.0	7.5	137.24	-174.8	-150.7	341.1	326.6	14.57	23.418		
3,900.0	3,889.7	3,884.5	3,878.0	8.3	7.7	137.25	-180.1	-154.0	350.3	335.3	14.96	23.413		
4,000.0	3,989.4	3,984.1	3,977.4	8.5	7.9	137.26	-185.3	-157.4	359.5	344.1	15.36	23.409		
4,100.0	4,089.0	4,083.7	4,076.7	8.7	8.2	137.27	-190.6	-160.7	368.6	352.9	15.75	23.404		
4,200.0	4,188.7	4,183.3	4,176.1	8.9	8.4	137.28	-195.9	-164.0	377.8	361.6	16.14	23.400		
4,300.0	4,288.4	4,282.9	4,275.5	9.2	8.6	137.29	-201.2	-167.4	386.9	370.4	16.54	23.396		
4,400.0	4,388.1	4,382.4	4,374.9	9.4	8.8	137.30	-206.4	-170.7	396.1	379.1	16.93	23.393		
4,500.0	4,487.8	4,482.0	4,474.3	9.6	9.0	137.31	-211.7	-174.0	405.2	387.9	17.33	23.389		
4,600.0	4,587.5	4,581.6	4,573.7	9.8	9.2	137.32	-217.0	-177.4	414.4	396.6	17.72	23.386		
4,700.0	4,687.2	4,681.2	4,673.0	10.0	9.4	137.32	-222.3	-180.7	423.5	405.4	18.11	23.382		
4,800.0	4,786.8	4,780.8	4,772.4	10.3	9.6	137.33	-227.5	-184.0	432.7	414.2	18.51	23.379		
4,900.0	4,886.5	4,880.3	4,871.8	10.5	9.8	137.34	-232.8	-187.4	441.8	422.9	18.90	23.376		
5,000.0	4,986.2	4,979.9	4,971.2	10.7	10.0	137.34	-238.1	-190.7	451.0	431.7	19.29	23.373		
5,100.0	5,085.9	5,079.5	5,070.6	10.9	10.2	137.35	-243.4	-194.0	460.1	440.4	19.69	23.370		

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 3F-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 3F-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)				
5,200.0	5,185.6	5,179.1	5,170.0	11.2	10.4	137.36	-248.7	-197.4	469.3	449.2	20.08	23.368		
5,300.0	5,285.3	5,278.7	5,269.4	11.4	10.6	137.36	-253.9	-200.7	478.4	458.0	20.48	23.365		
5,400.0	5,385.0	5,378.2	5,368.7	11.6	10.8	137.37	-259.2	-204.0	487.6	466.7	20.87	23.362		
5,500.0	5,484.7	5,477.8	5,468.1	11.8	11.0	137.37	-264.5	-207.4	496.7	475.5	21.26	23.360		
5,600.0	5,584.3	5,577.4	5,567.5	12.1	11.2	137.38	-269.8	-210.7	505.9	484.2	21.66	23.357		
5,700.0	5,684.0	5,677.0	5,666.9	12.3	11.4	137.38	-275.0	-214.0	515.1	493.0	22.05	23.355		
5,800.0	5,783.7	5,776.6	5,766.3	12.5	11.6	137.39	-280.3	-217.4	524.2	501.8	22.45	23.353		
5,900.0	5,883.4	5,876.2	5,865.7	12.7	11.8	137.39	-285.6	-220.7	533.4	510.5	22.84	23.351		
6,000.0	5,983.1	5,975.7	5,965.0	12.9	12.0	137.40	-290.9	-224.0	542.5	519.3	23.24	23.349		
6,100.0	6,082.8	6,075.3	6,064.4	13.2	12.3	137.40	-296.1	-227.4	551.7	528.0	23.63	23.347		
6,200.0	6,182.5	6,174.9	6,163.8	13.4	12.5	137.40	-301.4	-230.7	560.8	536.8	24.02	23.345		
6,300.0	6,282.1	6,274.5	6,263.2	13.6	12.7	137.41	-306.7	-234.0	570.0	545.6	24.42	23.343		
6,400.0	6,381.8	6,374.1	6,362.6	13.8	12.9	137.41	-312.0	-237.4	579.1	554.3	24.81	23.341		
6,500.0	6,481.5	6,473.6	6,462.0	14.1	13.1	137.42	-317.2	-240.7	588.3	563.1	25.21	23.339		
6,600.0	6,581.2	6,573.2	6,561.3	14.3	13.3	137.42	-322.5	-244.1	597.4	571.8	25.60	23.337		
6,700.0	6,680.9	6,672.8	6,660.7	14.5	13.5	137.42	-327.8	-247.4	606.6	580.6	25.99	23.336		
6,800.0	6,780.6	6,772.4	6,760.1	14.7	13.7	141.74	-333.1	-250.7	615.7	589.3	26.39	23.335		
6,900.0	6,880.2	6,871.4	6,858.9	14.8	13.9	-114.23	-338.3	-254.0	624.9	598.2	26.67	23.427		
7,000.0	6,977.6	6,967.3	6,954.6	14.9	14.1	-102.14	-343.4	-257.2	634.6	607.7	26.85	23.635		
7,100.0	7,069.8	7,065.0	7,052.2	14.8	14.2	-100.56	-344.5	-260.6	646.2	619.3	26.86	24.057		
7,200.0	7,154.0	7,172.4	7,158.0	14.7	14.3	-101.14	-327.5	-264.4	659.5	632.8	26.65	24.741		
7,300.0	7,227.7	7,290.2	7,268.2	14.6	14.2	-102.43	-286.5	-268.5	673.7	647.4	26.30	25.611		
7,400.0	7,288.6	7,420.4	7,377.3	14.7	14.0	-103.96	-216.1	-273.0	687.7	661.7	25.95	26.503		
7,500.0	7,334.9	7,564.1	7,475.9	14.8	13.9	-105.42	-112.2	-277.5	700.1	674.2	25.82	27.110		
7,600.0	7,365.1	7,720.6	7,550.2	15.1	14.1	-106.50	24.9	-281.4	709.3	683.0	26.25	27.021		
7,700.0	7,378.4	7,885.8	7,585.5	15.7	14.8	-106.94	185.6	-284.3	713.9	686.5	27.48	25.982		
7,800.0	7,379.0	8,002.4	7,587.0	16.3	15.7	-106.92	302.3	-285.6	714.9	685.9	29.02	24.632		
7,900.0	7,379.0	8,102.4	7,587.0	17.2	16.5	-106.89	402.3	-286.6	715.8	685.0	30.76	23.267		
8,000.0	7,379.0	8,202.4	7,587.0	18.2	17.5	-106.87	502.3	-287.7	716.6	683.8	32.76	21.876		
8,100.0	7,379.0	8,302.4	7,587.0	19.2	18.6	-106.85	602.2	-288.7	717.4	682.5	34.96	20.521		
8,200.0	7,379.0	8,402.4	7,587.0	20.4	19.8	-106.83	702.2	-289.8	718.3	680.9	37.34	19.237		
8,300.0	7,379.0	8,502.4	7,587.0	21.7	21.1	-106.81	802.2	-290.8	719.1	679.2	39.86	18.042		
8,400.0	7,379.0	8,602.4	7,587.0	23.0	22.5	-106.79	902.2	-291.9	719.9	677.4	42.49	16.942		
8,500.0	7,379.0	8,702.4	7,587.0	24.3	23.9	-106.77	1,002.2	-292.9	720.8	675.5	45.23	15.936		
8,600.0	7,379.0	8,802.4	7,587.0	25.8	25.3	-106.75	1,102.2	-294.0	721.6	673.6	48.04	15.020		
8,700.0	7,379.0	8,902.4	7,587.0	27.2	26.8	-106.73	1,202.2	-295.0	722.4	671.5	50.92	14.187		
8,800.0	7,379.0	9,002.4	7,587.0	28.7	28.3	-106.71	1,302.2	-296.0	723.3	669.4	53.86	13.428		
8,900.0	7,379.0	9,102.4	7,587.0	30.2	29.8	-106.69	1,402.2	-297.1	724.1	667.3	56.85	12.737		
9,000.0	7,379.0	9,202.4	7,587.0	31.8	31.4	-106.67	1,502.2	-298.1	724.9	665.1	59.88	12.107		
9,100.0	7,379.0	9,302.4	7,587.0	33.3	33.0	-106.65	1,602.1	-299.2	725.8	662.8	62.94	11.531		
9,200.0	7,379.0	9,402.4	7,587.0	34.9	34.6	-106.63	1,702.1	-300.2	726.6	660.6	66.03	11.004		
9,300.0	7,379.0	9,502.4	7,587.0	36.5	36.2	-106.62	1,802.1	-301.3	727.4	658.3	69.15	10.520		
9,400.0	7,379.0	9,602.4	7,587.0	38.1	37.8	-106.60	1,902.1	-302.3	728.3	656.0	72.29	10.074		
9,500.0	7,379.0	9,702.4	7,587.0	39.8	39.5	-106.58	2,002.1	-303.4	729.1	653.7	75.46	9.663		
9,600.0	7,379.0	9,802.4	7,587.0	41.4	41.1	-106.56	2,102.1	-304.4	730.0	651.3	78.64	9.283		
9,700.0	7,379.0	9,902.4	7,587.0	43.0	42.8	-106.54	2,202.1	-305.5	730.8	649.0	81.83	8.930		
9,800.0	7,379.0	10,002.4	7,587.0	44.7	44.4	-106.52	2,302.1	-306.5	731.6	646.6	85.04	8.603		
9,900.0	7,379.0	10,102.4	7,587.0	46.4	46.1	-106.50	2,402.1	-307.6	732.5	644.2	88.27	8.298		
10,000.0	7,379.0	10,202.4	7,587.0	48.0	47.8	-106.48	2,502.1	-308.6	733.3	641.8	91.50	8.014		
10,100.0	7,379.0	10,302.3	7,587.0	49.7	49.4	-106.46	2,602.1	-309.7	734.1	639.4	94.75	7.749		
10,200.0	7,379.0	10,402.3	7,587.0	51.4	51.1	-106.44	2,702.0	-310.7	735.0	637.0	98.00	7.500		
10,300.0	7,379.0	10,502.3	7,587.0	53.1	52.8	-106.42	2,802.0	-311.8	735.8	634.6	101.26	7.266		

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 3F-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 3F-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		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor	
10,400.0	7,379.0	10,602.3	7,587.0	54.7	54.5	-106.40	2,902.0	-312.8	736.6	632.1	104.53	7.047	
10,500.0	7,379.0	10,702.3	7,587.0	56.4	56.2	-106.38	3,002.0	-313.8	737.5	629.7	107.81	6.841	
10,600.0	7,379.0	10,802.3	7,587.0	58.1	57.9	-106.36	3,102.0	-314.9	738.3	627.2	111.09	6.646	
10,700.0	7,379.0	10,902.3	7,587.0	59.8	59.6	-106.34	3,202.0	-315.9	739.2	624.8	114.38	6.462	
10,800.0	7,379.0	11,002.3	7,587.0	61.5	61.3	-106.33	3,302.0	-317.0	740.0	622.3	117.68	6.288	
10,900.0	7,379.0	11,102.3	7,587.0	63.2	63.0	-106.31	3,402.0	-318.0	740.8	619.9	120.98	6.124	
11,000.0	7,379.0	11,202.3	7,587.0	64.9	64.7	-106.29	3,502.0	-319.1	741.7	617.4	124.29	5.967	
11,100.0	7,379.0	11,302.3	7,587.0	66.6	66.5	-106.27	3,602.0	-320.1	742.5	614.9	127.60	5.819	
11,200.0	7,379.0	11,402.3	7,587.0	68.4	68.2	-106.25	3,702.0	-321.2	743.3	612.4	130.91	5.678	
11,300.0	7,379.0	11,502.3	7,587.0	70.1	69.9	-106.23	3,801.9	-322.2	744.2	610.0	134.23	5.544	
11,400.0	7,379.0	11,602.3	7,587.0	71.8	71.6	-106.21	3,901.9	-323.3	745.0	607.5	137.55	5.416	
11,500.0	7,379.0	11,702.3	7,587.0	73.5	73.3	-106.19	4,001.9	-324.3	745.9	605.0	140.88	5.294	
11,600.0	7,379.0	11,802.3	7,587.0	75.2	75.0	-106.17	4,101.9	-325.4	746.7	602.5	144.21	5.178	
11,700.0	7,379.0	11,902.3	7,587.0	76.9	76.8	-106.16	4,201.9	-326.4	747.5	600.0	147.54	5.067	
11,800.0	7,379.0	12,002.3	7,587.0	78.7	78.5	-106.14	4,301.9	-327.5	748.4	597.5	150.87	4.960	
11,900.0	7,379.0	12,102.3	7,587.0	80.4	80.2	-106.12	4,401.9	-328.5	749.2	595.0	154.21	4.858	
12,000.0	7,379.0	12,202.3	7,587.0	82.1	82.0	-106.10	4,501.9	-329.6	750.1	592.5	157.55	4.761	
12,100.0	7,379.0	12,302.3	7,587.0	83.8	83.7	-106.08	4,601.9	-330.6	750.9	590.0	160.89	4.667	
12,200.0	7,379.0	12,402.3	7,587.0	85.6	85.4	-106.06	4,701.9	-331.6	751.7	587.5	164.24	4.577	
12,300.0	7,379.0	12,502.3	7,587.0	87.3	87.1	-106.05	4,801.9	-332.7	752.6	585.0	167.58	4.491	
12,400.0	7,379.0	12,602.3	7,587.0	89.0	88.9	-106.03	4,901.8	-333.7	753.4	582.5	170.93	4.408	
12,500.0	7,379.0	12,702.3	7,587.0	90.8	90.6	-106.01	5,001.8	-334.8	754.2	580.0	174.28	4.328	
12,600.0	7,379.0	12,802.3	7,587.0	92.5	92.3	-105.99	5,101.8	-335.8	755.1	577.4	177.64	4.251	
12,700.0	7,379.0	12,902.2	7,587.0	94.2	94.1	-105.95	5,201.8	-336.9	755.5	576.5	181.00	4.185	
12,800.0	7,379.0	13,002.2	7,587.0	96.0	95.8	-105.88	5,301.7	-337.9	760.6	576.2	184.40	4.125	
12,900.0	7,379.0	13,102.1	7,587.0	97.7	97.5	-105.81	5,401.7	-339.0	763.6	575.8	187.80	4.066	
13,000.0	7,379.0	13,202.1	7,587.0	99.4	99.3	-105.75	5,501.6	-340.0	766.7	575.5	191.20	4.010	
13,100.0	7,379.0	13,302.0	7,587.0	101.2	101.0	-105.68	5,601.6	-341.1	769.8	575.2	194.61	3.956	
13,200.0	7,379.0	13,402.0	7,587.0	102.9	102.7	-105.62	5,701.5	-342.1	772.8	574.8	198.01	3.903	
13,300.0	7,379.0	13,501.9	7,587.0	104.6	104.5	-105.56	5,801.4	-343.2	775.9	574.5	201.42	3.852	
13,400.0	7,379.0	13,601.9	7,587.0	106.4	106.2	-105.49	5,901.4	-344.2	779.0	574.2	204.84	3.803	
13,500.0	7,379.0	13,701.8	7,587.0	108.1	108.0	-105.43	6,001.3	-345.3	782.1	573.8	208.25	3.755	
13,600.0	7,379.0	13,801.8	7,587.0	109.9	109.7	-105.37	6,101.3	-346.3	785.2	573.5	211.67	3.709	
13,700.0	7,379.0	13,901.7	7,587.0	111.6	111.4	-105.31	6,201.2	-347.3	788.2	573.1	215.09	3.665	
13,800.0	7,379.0	14,001.7	7,587.0	113.3	113.2	-105.25	6,301.2	-348.4	791.3	572.8	218.51	3.621	
13,900.0	7,379.0	14,101.6	7,587.0	115.1	114.9	-105.19	6,401.1	-349.4	794.4	572.5	221.93	3.579	
14,000.0	7,379.0	14,201.6	7,587.0	116.8	116.7	-105.13	6,501.1	-350.5	797.5	572.1	225.35	3.539	
14,100.0	7,379.0	14,301.5	7,587.0	118.6	118.4	-105.07	6,601.0	-351.5	800.6	571.8	228.78	3.499	
14,200.0	7,379.0	14,401.5	7,587.0	120.3	120.1	-105.01	6,700.9	-352.6	803.6	571.4	232.21	3.461	
14,300.0	7,379.0	14,501.4	7,587.0	122.1	121.9	-104.95	6,800.9	-353.6	806.7	571.1	235.64	3.424	
14,400.0	7,379.0	14,601.4	7,587.0	123.8	123.6	-104.89	6,900.8	-354.7	809.8	570.7	239.07	3.387	
14,500.0	7,379.0	14,701.3	7,587.0	125.5	125.4	-104.83	7,000.8	-355.7	812.9	570.4	242.50	3.352	
14,600.0	7,379.0	14,801.2	7,587.0	127.3	127.1	-104.78	7,100.7	-356.8	816.0	570.0	245.94	3.318	
14,700.0	7,379.0	14,901.2	7,587.0	129.0	128.9	-104.72	7,200.7	-357.8	819.1	569.7	249.38	3.284	
14,800.0	7,379.0	15,001.1	7,587.0	130.8	130.6	-104.66	7,300.6	-358.9	822.2	569.3	252.81	3.252	
14,900.0	7,379.0	15,101.1	7,587.0	132.5	132.3	-104.61	7,400.5	-359.9	825.2	569.0	256.25	3.220	
15,000.0	7,379.0	15,201.0	7,587.0	134.3	134.1	-104.55	7,500.5	-361.0	828.3	568.6	259.70	3.190	
15,096.7	7,379.0	15,297.7	7,587.0	136.0	135.8	-104.50	7,597.2	-362.0	831.3	568.3	263.03	3.161 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 3F-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 3F-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 3C-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)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.32	0.4	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.32	0.4	-29.9	29.9	29.6	0.30	98.545		
200.0	200.0	200.0	200.0	0.3	0.3	-89.32	0.4	-29.9	29.9	29.3	0.65	45.847		
300.0	300.0	300.0	300.0	0.5	0.5	-89.32	0.4	-29.9	29.9	28.9	1.00	29.872	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	139.07	0.4	-29.9	30.6	29.2	1.35	22.634		
500.0	500.0	500.0	500.0	0.9	0.8	142.07	0.4	-29.9	32.6	30.9	1.70	19.163		
600.0	599.9	599.9	599.9	1.0	1.0	146.31	0.4	-29.9	36.1	34.1	2.05	17.608		
700.0	699.7	699.7	699.7	1.2	1.2	149.77	-0.5	-30.1	41.4	39.0	2.41	17.197		
800.0	799.4	799.4	799.4	1.4	1.4	151.24	-3.0	-30.7	48.0	45.3	2.76	17.389		
900.0	899.1	899.2	899.1	1.7	1.6	150.68	-7.3	-31.7	54.9	51.8	3.13	17.557		
1,000.0	998.8	999.0	998.7	1.9	1.7	148.90	-12.9	-33.0	61.8	58.3	3.50	17.651		
1,100.0	1,098.4	1,098.7	1,098.2	2.1	1.9	147.36	-18.6	-34.4	68.8	64.9	3.88	17.717		
1,200.0	1,198.1	1,198.4	1,197.8	2.3	2.1	146.11	-24.4	-35.8	75.8	71.5	4.27	17.765		
1,300.0	1,297.8	1,298.2	1,297.3	2.5	2.3	145.07	-30.1	-37.1	82.9	78.2	4.65	17.800		
1,400.0	1,397.5	1,397.9	1,396.9	2.7	2.5	144.19	-35.9	-38.5	89.9	84.9	5.04	17.827		
1,500.0	1,497.2	1,497.7	1,496.5	3.0	2.7	143.44	-41.7	-39.8	97.0	91.6	5.43	17.848		
1,600.0	1,596.9	1,597.4	1,596.0	3.2	2.9	142.79	-47.4	-41.2	104.1	98.3	5.83	17.864		
1,700.0	1,696.6	1,697.1	1,695.6	3.4	3.1	142.22	-53.2	-42.6	111.2	105.0	6.22	17.877		
1,800.0	1,796.2	1,796.9	1,795.2	3.6	3.3	141.73	-58.9	-43.9	118.3	111.7	6.61	17.887		
1,900.0	1,895.9	1,896.6	1,894.7	3.8	3.5	141.28	-64.7	-45.3	125.4	118.4	7.01	17.895		
2,000.0	1,995.6	1,996.4	1,994.3	4.1	3.7	140.89	-70.5	-46.6	132.6	125.2	7.41	17.901		
2,100.0	2,095.3	2,096.1	2,093.9	4.3	3.9	140.54	-76.2	-48.0	139.7	131.9	7.80	17.907		
2,200.0	2,195.0	2,195.9	2,193.4	4.5	4.1	140.22	-82.0	-49.4	146.8	138.6	8.20	17.911		
2,300.0	2,294.7	2,295.6	2,293.0	4.7	4.3	139.93	-87.7	-50.7	154.0	145.4	8.59	17.915		
2,400.0	2,394.4	2,395.3	2,392.6	4.9	4.5	139.66	-93.5	-52.1	161.1	152.1	8.99	17.918		
2,500.0	2,494.1	2,495.1	2,492.1	5.2	4.7	139.42	-99.3	-53.4	168.3	158.9	9.39	17.921		
2,600.0	2,593.7	2,594.8	2,591.7	5.4	4.9	139.20	-105.0	-54.8	175.4	165.6	9.79	17.923		
2,700.0	2,693.4	2,694.6	2,691.3	5.6	5.1	139.00	-110.8	-56.1	182.6	172.4	10.19	17.925		
2,800.0	2,793.1	2,794.3	2,790.8	5.8	5.3	138.81	-116.5	-57.5	189.7	179.2	10.58	17.926		
2,900.0	2,892.8	2,894.0	2,890.4	6.0	5.5	138.63	-122.3	-58.9	196.9	185.9	10.98	17.927		
3,000.0	2,992.5	2,993.8	2,990.0	6.3	5.7	138.47	-128.1	-60.2	204.1	192.7	11.38	17.929		
3,100.0	3,092.2	3,093.5	3,089.5	6.5	5.9	138.32	-133.8	-61.6	211.2	199.4	11.78	17.930		
3,200.0	3,191.9	3,193.3	3,189.1	6.7	6.1	138.18	-139.6	-62.9	218.4	206.2	12.18	17.930		
3,300.0	3,291.5	3,293.0	3,288.7	6.9	6.3	138.04	-145.3	-64.3	225.6	213.0	12.58	17.931		
3,400.0	3,391.2	3,392.8	3,388.2	7.2	6.5	137.92	-151.1	-65.7	232.7	219.7	12.98	17.932		
3,500.0	3,490.9	3,492.5	3,487.8	7.4	6.7	137.80	-156.9	-67.0	239.9	226.5	13.38	17.932		
3,600.0	3,590.6	3,592.2	3,587.4	7.6	6.9	137.69	-162.6	-68.4	247.1	233.3	13.78	17.933		
3,700.0	3,690.3	3,692.0	3,686.9	7.8	7.1	137.59	-168.4	-69.7	254.2	240.1	14.18	17.933		
3,800.0	3,790.0	3,791.7	3,786.5	8.0	7.3	137.49	-174.1	-71.1	261.4	246.8	14.58	17.933		
3,900.0	3,889.7	3,891.5	3,886.1	8.3	7.5	137.39	-179.9	-72.5	268.6	253.6	14.98	17.933		
4,000.0	3,989.4	3,991.2	3,985.6	8.5	7.7	137.31	-185.7	-73.8	275.7	260.4	15.38	17.934		
4,100.0	4,089.0	4,090.9	4,085.2	8.7	7.9	137.22	-191.4	-75.2	282.9	267.1	15.78	17.934		
4,200.0	4,188.7	4,190.7	4,184.8	8.9	8.1	137.14	-197.2	-76.5	290.1	273.9	16.18	17.934		
4,300.0	4,288.4	4,290.4	4,284.3	9.2	8.3	137.07	-202.9	-77.9	297.3	280.7	16.58	17.934		
4,400.0	4,388.1	4,390.2	4,383.9	9.4	8.5	136.99	-208.7	-79.3	304.4	287.5	16.98	17.934		
4,500.0	4,487.8	4,489.9	4,483.5	9.6	8.7	136.93	-214.4	-80.6	311.6	294.2	17.38	17.934		
4,600.0	4,587.5	4,589.7	4,583.0	9.8	8.9	136.86	-220.2	-82.0	318.8	301.0	17.78	17.934		
4,700.0	4,687.2	4,689.4	4,682.6	10.0	9.1	136.80	-226.0	-83.3	326.0	307.8	18.18	17.934		
4,800.0	4,786.8	4,789.1	4,782.2	10.3	9.3	136.74	-231.7	-84.7	333.1	314.6	18.58	17.934		
4,900.0	4,886.5	4,888.9	4,881.7	10.5	9.5	136.68	-237.5	-86.1	340.3	321.3	18.98	17.934		
5,000.0	4,986.2	4,988.6	4,981.3	10.7	9.7	136.62	-243.2	-87.4	347.5	328.1	19.38	17.934		
5,100.0	5,085.9	5,088.4	5,080.9	10.9	9.9	136.57	-249.0	-88.8	354.7	334.9	19.78	17.934		

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 3F-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 3F-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 3C-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			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)	
5,200.0	5,185.6	5,188.1	5,180.4	11.2	10.1	136.52	-254.8	-90.1	361.8	341.7	20.18	17.934		
5,300.0	5,285.3	5,287.8	5,280.0	11.4	10.3	136.47	-260.5	-91.5	369.0	348.4	20.58	17.934		
5,400.0	5,385.0	5,387.6	5,379.6	11.6	10.6	136.42	-266.3	-92.8	376.2	355.2	20.98	17.934		
5,500.0	5,484.7	5,487.3	5,479.1	11.8	10.8	136.38	-272.0	-94.2	383.4	362.0	21.38	17.934		
5,600.0	5,584.3	5,587.1	5,578.7	12.1	11.0	136.33	-277.8	-95.6	390.6	368.8	21.78	17.934		
5,700.0	5,684.0	5,686.8	5,678.3	12.3	11.2	136.29	-283.6	-96.9	397.7	375.6	22.18	17.934		
5,800.0	5,783.7	5,786.6	5,777.8	12.5	11.4	136.25	-289.3	-98.3	404.9	382.3	22.58	17.934		
5,900.0	5,883.4	5,886.3	5,877.4	12.7	11.6	136.21	-295.1	-99.6	412.1	389.1	22.98	17.934		
6,000.0	5,983.1	5,986.0	5,976.9	12.9	11.8	136.17	-300.8	-101.0	419.3	395.9	23.38	17.934		
6,100.0	6,082.8	6,085.8	6,076.5	13.2	12.0	136.14	-306.6	-102.4	426.4	402.7	23.78	17.934		
6,200.0	6,182.5	6,185.5	6,176.1	13.4	12.2	136.10	-312.4	-103.7	433.6	409.4	24.18	17.934		
6,300.0	6,282.1	6,285.3	6,275.6	13.6	12.4	136.07	-318.1	-105.1	440.8	416.2	24.58	17.934		
6,400.0	6,381.8	6,385.0	6,375.2	13.8	12.6	136.03	-323.9	-106.4	448.0	423.0	24.98	17.933		
6,500.0	6,481.5	6,484.7	6,474.8	14.1	12.8	136.00	-329.6	-107.8	455.2	429.8	25.38	17.933		
6,600.0	6,581.2	6,584.5	6,574.3	14.3	13.0	135.97	-335.4	-109.2	462.3	436.6	25.78	17.933		
6,700.0	6,680.9	6,684.2	6,673.9	14.5	13.2	135.94	-341.2	-110.5	469.5	443.3	26.18	17.933		
6,800.0	6,780.6	6,784.1	6,773.6	14.7	13.4	140.22	-346.9	-111.9	476.7	450.1	26.58	17.935		
6,900.0	6,880.2	6,886.3	6,875.6	14.8	13.5	-115.10	-342.9	-113.2	483.8	457.1	26.74	18.096		
7,000.0	6,977.6	6,988.6	6,975.3	14.9	13.4	-100.97	-320.8	-114.4	490.6	463.9	26.65	18.409		
7,100.0	7,069.8	7,090.8	7,069.5	14.8	13.3	-96.44	-281.4	-115.3	496.8	470.4	26.39	18.822		
7,200.0	7,154.0	7,193.0	7,155.1	14.7	13.2	-94.03	-225.9	-116.1	502.3	476.2	26.08	19.258		
7,300.0	7,227.7	7,295.0	7,229.4	14.6	13.0	-92.45	-156.2	-116.6	507.0	481.1	25.85	19.610		
7,400.0	7,288.6	7,396.7	7,290.1	14.7	13.0	-91.33	-74.7	-116.8	510.6	484.8	25.84	19.760		
7,500.0	7,334.9	7,498.2	7,335.4	14.8	13.2	-90.51	16.0	-116.8	513.1	486.9	26.16	19.611		
7,600.0	7,365.1	7,599.4	7,363.9	15.1	13.5	-89.94	112.9	-116.5	514.4	487.5	26.90	19.125		
7,700.0	7,378.4	7,700.2	7,374.9	15.7	14.1	-89.59	213.0	-115.9	514.5	486.4	28.04	18.347		
7,800.0	7,379.0	7,800.2	7,375.0	16.3	14.9	-89.55	313.0	-115.2	513.6	484.1	29.56	17.373		
7,900.0	7,379.0	7,900.2	7,375.0	17.2	15.8	-89.55	413.0	-114.5	512.8	481.3	31.41	16.324		
8,000.0	7,379.0	8,000.2	7,375.0	18.2	16.8	-89.55	513.0	-113.8	511.9	478.4	33.53	15.269		
8,100.0	7,379.0	8,100.2	7,375.0	19.2	18.0	-89.55	613.0	-113.1	511.0	475.2	35.86	14.251		
8,200.0	7,379.0	8,200.2	7,375.0	20.4	19.3	-89.55	713.0	-112.4	510.1	471.8	38.37	13.295		
8,300.0	7,379.0	8,300.2	7,375.0	21.7	20.6	-89.55	813.0	-111.7	509.3	468.2	41.03	12.413		
8,400.0	7,379.0	8,400.2	7,375.0	23.0	22.0	-89.55	913.0	-111.0	508.4	464.6	43.81	11.606		
8,500.0	7,379.0	8,500.2	7,375.0	24.3	23.4	-89.55	1,013.0	-110.3	507.5	460.8	46.68	10.872		
8,600.0	7,379.0	8,600.2	7,375.0	25.8	24.9	-89.55	1,113.0	-109.6	506.7	457.0	49.64	10.206		
8,700.0	7,379.0	8,700.2	7,375.0	27.2	26.4	-89.55	1,213.0	-108.9	505.8	453.1	52.67	9.604		
8,800.0	7,379.0	8,800.2	7,375.0	28.7	27.9	-89.55	1,313.0	-108.3	504.9	449.2	55.75	9.057		
8,900.0	7,379.0	8,900.2	7,375.0	30.2	29.5	-89.55	1,412.9	-107.6	504.0	445.2	58.88	8.561		
9,000.0	7,379.0	9,000.2	7,375.0	31.8	31.1	-89.54	1,512.9	-106.9	503.2	441.1	62.05	8.109		
9,100.0	7,379.0	9,100.2	7,375.0	33.3	32.7	-89.54	1,612.9	-106.2	502.3	437.0	65.25	7.698		
9,200.0	7,379.0	9,200.2	7,375.0	34.9	34.3	-89.54	1,712.9	-105.5	501.4	432.9	68.49	7.321		
9,300.0	7,379.0	9,313.4	7,375.0	36.5	36.1	-89.54	1,826.1	-103.3	499.4	427.4	71.96	6.940		
9,400.0	7,379.0	9,414.1	7,375.0	38.1	37.8	-89.54	1,926.7	-99.8	495.7	420.5	75.26	6.587		
9,500.0	7,379.0	9,514.0	7,375.0	39.8	39.4	-89.53	2,026.6	-96.3	492.1	413.5	78.56	6.264		
9,600.0	7,379.0	9,613.9	7,375.0	41.4	41.1	-89.53	2,126.5	-92.9	488.4	406.5	81.88	5.965		
9,700.0	7,379.0	9,713.9	7,375.0	43.0	42.8	-89.53	2,226.3	-89.4	484.7	399.5	85.21	5.689		
9,800.0	7,379.0	9,813.8	7,375.0	44.7	44.4	-89.52	2,326.2	-85.9	481.1	392.5	88.56	5.432		
9,900.0	7,379.0	9,913.7	7,375.0	46.4	46.1	-89.52	2,426.1	-82.4	477.4	385.5	91.92	5.194		
10,000.0	7,379.0	10,013.7	7,375.0	48.0	47.8	-89.52	2,526.0	-78.9	473.7	378.5	95.29	4.972		
10,100.0	7,379.0	10,113.6	7,375.0	49.7	49.5	-89.51	2,625.8	-75.4	470.1	371.4	98.66	4.764		
10,200.0	7,379.0	10,203.3	7,375.0	51.4	51.0	-89.51	2,715.5	-73.2	467.4	365.6	101.88	4.588		
10,300.0	7,379.0	10,297.2	7,375.0	53.1	52.6	-89.51	2,809.4	-72.9	466.9	361.7	105.17	4.440		

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 3F-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 3F-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 3C-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							
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
10,400.0	7,379.0	10,397.2	7,375.0	54.7	54.3	-89.51	2,909.4	-72.9	466.7	358.2	108.58	4.299	
10,456.2	7,379.0	10,452.6	7,375.0	55.7	55.2	-89.51	2,964.8	-72.9	466.6	356.2	110.48	4.224	
10,500.0	7,379.0	10,491.0	7,375.0	56.4	55.9	-89.51	3,003.2	-73.1	466.9	355.0	111.88	4.173	
10,600.0	7,379.0	10,588.7	7,375.0	58.1	57.6	-89.51	3,100.9	-74.9	468.5	353.2	115.26	4.065	
10,700.0	7,379.0	10,688.7	7,375.0	59.8	59.3	-89.51	3,200.8	-76.7	470.1	351.4	118.68	3.961	
10,800.0	7,379.0	10,788.7	7,375.0	61.5	61.0	-89.51	3,300.8	-78.5	471.8	349.7	122.10	3.864	
10,900.0	7,379.0	10,888.6	7,375.0	63.2	62.7	-89.52	3,400.8	-80.4	473.4	347.9	125.53	3.771	
11,000.0	7,379.0	10,988.6	7,375.0	64.9	64.4	-89.52	3,500.8	-82.2	475.1	346.1	128.97	3.684	
11,100.0	7,379.0	11,088.6	7,375.0	66.6	66.1	-89.52	3,600.7	-84.0	476.7	344.3	132.41	3.601	
11,200.0	7,379.0	11,188.6	7,375.0	68.4	67.9	-89.52	3,700.7	-85.8	478.4	342.5	135.85	3.521	
11,300.0	7,379.0	11,288.6	7,375.0	70.1	69.6	-89.52	3,800.7	-87.7	480.0	340.7	139.29	3.446	
11,400.0	7,379.0	11,388.6	7,375.0	71.8	71.3	-89.52	3,900.6	-89.5	481.7	338.9	142.74	3.375	
11,500.0	7,379.0	11,488.6	7,375.0	73.5	73.0	-89.53	4,000.6	-91.3	483.3	337.1	146.19	3.306	
11,600.0	7,379.0	11,588.5	7,375.0	75.2	74.8	-89.53	4,100.6	-93.1	485.0	335.3	149.65	3.241	
11,700.0	7,379.0	11,688.5	7,375.0	76.9	76.5	-89.53	4,200.5	-95.0	486.6	333.5	153.10	3.178	
11,800.0	7,379.0	11,788.5	7,375.0	78.7	78.2	-89.53	4,300.5	-96.8	488.3	331.7	156.56	3.119	
11,900.0	7,379.0	11,888.5	7,375.0	80.4	79.9	-89.53	4,400.5	-98.6	489.9	329.9	160.02	3.062	
12,000.0	7,379.0	11,988.5	7,375.0	82.1	81.7	-89.53	4,500.5	-100.4	491.6	328.1	163.48	3.007	
12,100.0	7,379.0	12,088.5	7,375.0	83.8	83.4	-89.54	4,600.4	-102.3	493.2	326.3	166.95	2.954	
12,200.0	7,379.0	12,188.5	7,375.0	85.6	85.1	-89.54	4,700.4	-104.1	494.9	324.5	170.41	2.904	
12,300.0	7,379.0	12,288.5	7,375.0	87.3	86.9	-89.54	4,800.4	-105.9	496.5	322.6	173.88	2.856	
12,400.0	7,379.0	12,388.4	7,375.0	89.0	88.6	-89.54	4,900.3	-107.7	498.2	320.8	177.35	2.809	
12,500.0	7,379.0	12,488.4	7,375.0	90.8	90.3	-89.54	5,000.3	-109.6	499.8	319.0	180.82	2.764	
12,600.0	7,379.0	12,588.4	7,375.0	92.5	92.1	-89.54	5,100.3	-111.4	501.5	317.2	184.30	2.721	
12,700.0	7,379.0	12,688.4	7,375.0	94.2	93.8	-89.55	5,200.2	-113.2	504.8	316.9	187.85	2.687	
12,800.0	7,379.0	12,788.3	7,375.0	96.0	95.6	-89.55	5,300.1	-115.0	508.7	317.4	191.32	2.659	
12,900.0	7,379.0	12,888.2	7,375.0	97.7	97.3	-89.55	5,400.0	-116.9	512.7	317.9	194.80	2.632	
13,000.0	7,379.0	12,988.1	7,375.0	99.4	99.0	-89.56	5,499.9	-118.7	516.7	318.4	198.27	2.606	
13,100.0	7,379.0	13,088.0	7,375.0	101.2	100.8	-89.56	5,599.8	-120.5	520.6	318.9	201.75	2.581	
13,200.0	7,379.0	13,188.0	7,375.0	102.9	102.5	-89.56	5,699.7	-122.3	524.6	319.4	205.22	2.556	
13,300.0	7,379.0	13,287.9	7,375.0	104.6	104.2	-89.57	5,799.6	-124.2	528.6	319.9	208.70	2.533	
13,400.0	7,379.0	13,387.8	7,375.0	106.4	106.0	-89.57	5,899.5	-126.0	532.5	320.4	212.18	2.510	
13,500.0	7,379.0	13,487.7	7,375.0	108.1	107.7	-89.57	5,999.4	-127.8	536.5	320.9	215.66	2.488	
13,600.0	7,379.0	13,587.6	7,375.0	109.9	109.5	-89.58	6,099.3	-129.6	540.5	321.3	219.14	2.466	
13,700.0	7,379.0	13,687.6	7,375.0	111.6	111.2	-89.58	6,199.2	-131.4	544.5	321.8	222.62	2.446	
13,800.0	7,379.0	13,787.5	7,375.0	113.3	113.0	-89.58	6,299.1	-133.3	548.4	322.3	226.11	2.426	
13,900.0	7,379.0	13,887.4	7,375.0	115.1	114.7	-89.58	6,399.1	-135.1	552.4	322.8	229.59	2.406	
14,000.0	7,379.0	13,987.3	7,375.0	116.8	116.4	-89.59	6,499.0	-136.9	556.4	323.3	233.07	2.387	
14,100.0	7,379.0	14,087.3	7,375.0	118.6	118.2	-89.59	6,598.9	-138.7	560.3	323.8	236.56	2.369	
14,200.0	7,379.0	14,187.2	7,375.0	120.3	119.9	-89.59	6,698.8	-140.6	564.3	324.3	240.04	2.351	
14,300.0	7,379.0	14,287.1	7,375.0	122.1	121.7	-89.60	6,798.7	-142.4	568.3	324.7	243.53	2.334	
14,400.0	7,379.0	14,387.0	7,375.0	123.8	123.4	-89.60	6,898.6	-144.2	572.2	325.2	247.02	2.317	
14,500.0	7,379.0	14,486.9	7,375.0	125.5	125.1	-89.60	6,998.5	-146.0	576.2	325.7	250.50	2.300	
14,600.0	7,379.0	14,586.9	7,375.0	127.3	126.9	-89.60	7,098.4	-147.9	580.2	326.2	253.99	2.284	
14,700.0	7,379.0	14,686.8	7,375.0	129.0	128.6	-89.61	7,198.3	-149.7	584.2	326.7	257.48	2.269	
14,800.0	7,379.0	14,786.7	7,375.0	130.8	130.4	-89.61	7,298.2	-151.5	588.1	327.2	260.97	2.254	
14,900.0	7,379.0	14,886.6	7,375.0	132.5	132.1	-89.61	7,398.1	-153.3	592.1	327.6	264.45	2.239	
15,000.0	7,379.0	14,986.5	7,375.0	134.3	133.9	-89.62	7,498.0	-155.2	596.1	328.1	267.94	2.225	
15,096.7	7,379.0	15,083.2	7,375.0	136.0	135.6	-89.62	7,594.7	-156.9	599.9	328.6	271.32	2.211 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 3F-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 3F-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 #2													Offset Site Error:	0.0 ft
Survey Program: O-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)				
0.0	0.0	0.0	0.0	0.0	0.0	-88.95	0.4	-19.9	19.9					
100.0	100.0	100.0	100.0	0.2	0.1	-88.95	0.4	-19.9	19.9	19.6	0.30	66.543		
200.0	200.0	200.0	200.0	0.3	0.3	-88.95	0.4	-19.9	19.9	19.2	0.65	30.671		
300.0	300.0	300.0	300.0	0.5	0.5	-88.95	0.4	-19.9	19.9	18.9	1.00	19.928	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	139.97	0.4	-19.9	20.5	19.2	1.35	15.247		
500.0	500.0	500.0	500.0	0.9	0.8	144.23	0.4	-19.9	22.6	20.9	1.70	13.318		
600.0	599.9	600.1	600.1	1.0	1.0	148.15	-0.5	-19.6	25.8	23.7	2.05	12.597		
700.0	699.7	700.3	700.2	1.2	1.2	150.01	-2.9	-18.7	29.7	27.3	2.40	12.343		
800.0	799.4	800.5	800.3	1.4	1.4	150.24	-7.1	-17.2	34.0	31.2	2.77	12.275		
900.0	899.1	900.5	900.2	1.7	1.6	148.86	-12.5	-15.2	37.7	34.6	3.14	12.024		
1,000.0	998.8	1,000.4	1,000.0	1.9	1.8	147.59	-18.0	-13.3	41.5	37.9	3.51	11.799		
1,100.0	1,098.4	1,100.4	1,099.7	2.1	2.0	146.53	-23.5	-11.3	45.2	41.3	3.89	11.611		
1,200.0	1,198.1	1,200.3	1,199.5	2.3	2.2	145.64	-29.0	-9.3	49.0	44.7	4.28	11.451		
1,300.0	1,297.8	1,300.2	1,299.2	2.5	2.3	144.87	-34.5	-7.3	52.7	48.1	4.66	11.314		
1,400.0	1,397.5	1,400.2	1,399.0	2.7	2.5	144.20	-40.0	-5.3	56.5	51.5	5.05	11.195		
1,500.0	1,497.2	1,500.1	1,498.7	3.0	2.7	143.62	-45.6	-3.3	60.3	54.9	5.44	11.091		
1,600.0	1,596.9	1,600.0	1,598.5	3.2	2.9	143.11	-51.1	-1.4	64.1	58.3	5.83	10.999		
1,700.0	1,696.6	1,699.9	1,698.3	3.4	3.1	142.65	-56.6	0.6	67.9	61.7	6.22	10.918		
1,800.0	1,796.2	1,799.9	1,798.0	3.6	3.3	142.25	-62.1	2.6	71.7	65.1	6.61	10.845		
1,900.0	1,895.9	1,899.8	1,897.8	3.8	3.5	141.88	-67.6	4.6	75.5	68.5	7.00	10.780		
2,000.0	1,995.6	1,999.7	1,997.5	4.1	3.7	141.55	-73.1	6.6	79.3	71.9	7.40	10.721		
2,100.0	2,095.3	2,099.6	2,097.3	4.3	3.9	141.25	-78.6	8.5	83.1	75.3	7.79	10.667		
2,200.0	2,195.0	2,199.6	2,197.0	4.5	4.1	140.98	-84.2	10.5	86.9	78.8	8.19	10.619		
2,300.0	2,294.7	2,299.5	2,296.8	4.7	4.3	140.72	-89.7	12.5	90.8	82.2	8.58	10.574		
2,400.0	2,394.4	2,399.4	2,396.5	4.9	4.5	140.49	-95.2	14.5	94.6	85.6	8.98	10.533		
2,500.0	2,494.1	2,499.3	2,496.3	5.2	4.7	140.28	-100.7	16.5	98.4	89.0	9.37	10.496		
2,600.0	2,593.7	2,599.3	2,596.0	5.4	4.9	140.08	-106.2	18.5	102.2	92.4	9.77	10.461		
2,700.0	2,693.4	2,699.2	2,695.8	5.6	5.1	139.90	-111.7	20.4	106.0	95.9	10.17	10.429		
2,800.0	2,793.1	2,799.1	2,795.6	5.8	5.3	139.73	-117.2	22.4	109.8	99.3	10.56	10.399		
2,900.0	2,892.8	2,899.1	2,895.3	6.0	5.5	139.57	-122.8	24.4	113.7	102.7	10.96	10.371		
3,000.0	2,992.5	2,999.0	2,995.1	6.3	5.7	139.42	-128.3	26.4	117.5	106.1	11.36	10.345		
3,100.0	3,092.2	3,098.9	3,094.8	6.5	5.9	139.28	-133.8	28.4	121.3	109.6	11.75	10.320		
3,200.0	3,191.9	3,198.8	3,194.6	6.7	6.1	139.15	-139.3	30.4	125.1	113.0	12.15	10.297		
3,300.0	3,291.5	3,298.8	3,294.3	6.9	6.4	139.03	-144.8	32.3	129.0	116.4	12.55	10.276		
3,400.0	3,391.2	3,398.7	3,394.1	7.2	6.6	138.92	-150.3	34.3	132.8	119.8	12.95	10.255		
3,500.0	3,490.9	3,498.6	3,493.8	7.4	6.8	138.81	-155.8	36.3	136.6	123.3	13.35	10.236		
3,600.0	3,590.6	3,598.5	3,593.6	7.6	7.0	138.70	-161.4	38.3	140.4	126.7	13.74	10.218		
3,700.0	3,690.3	3,698.5	3,693.3	7.8	7.2	138.60	-166.9	40.3	144.3	130.1	14.14	10.201		
3,800.0	3,790.0	3,798.4	3,793.1	8.0	7.4	138.51	-172.4	42.3	148.1	133.5	14.54	10.185		
3,900.0	3,889.7	3,898.3	3,892.9	8.3	7.6	138.42	-177.9	44.2	151.9	137.0	14.94	10.170		
4,000.0	3,989.4	3,998.2	3,992.6	8.5	7.8	138.34	-183.4	46.2	155.7	140.4	15.34	10.155		
4,100.0	4,089.0	4,098.2	4,092.4	8.7	8.0	138.26	-188.9	48.2	159.6	143.8	15.73	10.141		
4,200.0	4,188.7	4,198.1	4,192.1	8.9	8.2	138.18	-194.4	50.2	163.4	147.3	16.13	10.128		
4,300.0	4,288.4	4,298.0	4,291.9	9.2	8.4	138.11	-200.0	52.2	167.2	150.7	16.53	10.115		
4,400.0	4,388.1	4,398.0	4,391.6	9.4	8.6	138.04	-205.5	54.2	171.0	154.1	16.93	10.103		
4,500.0	4,487.8	4,497.9	4,491.4	9.6	8.8	137.98	-211.0	56.1	174.9	157.5	17.33	10.092		
4,600.0	4,587.5	4,597.8	4,591.1	9.8	9.0	137.91	-216.5	58.1	178.7	161.0	17.73	10.081		
4,700.0	4,687.2	4,697.7	4,690.9	10.0	9.2	137.85	-222.0	60.1	182.5	164.4	18.13	10.070		
4,800.0	4,786.8	4,797.7	4,790.6	10.3	9.4	137.79	-227.5	62.1	186.4	167.8	18.52	10.060		
4,900.0	4,886.5	4,897.6	4,890.4	10.5	9.6	137.74	-233.0	64.1	190.2	171.3	18.92	10.051		
5,000.0	4,986.2	4,997.5	4,990.2	10.7	9.8	137.68	-238.6	66.1	194.0	174.7	19.32	10.041		
5,100.0	5,085.9	5,097.4	5,089.9	10.9	10.0	137.63	-244.1	68.0	197.9	178.1	19.72	10.032		

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 3F-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 3F-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 #2													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		
5,200.0	5,185.6	5,197.4	5,189.7	11.2	10.2	137.58	-249.6	70.0	201.7	181.6	20.12	10.024		
5,300.0	5,285.3	5,297.3	5,289.4	11.4	10.4	137.54	-255.1	72.0	205.5	185.0	20.52	10.016		
5,400.0	5,385.0	5,397.2	5,389.2	11.6	10.6	137.49	-260.6	74.0	209.3	188.4	20.92	10.008		
5,500.0	5,484.7	5,497.1	5,488.9	11.8	10.8	137.44	-266.1	76.0	213.2	191.9	21.32	10.000		
5,600.0	5,584.3	5,597.1	5,588.7	12.1	11.0	137.40	-271.6	77.9	217.0	195.3	21.72	9.993		
5,700.0	5,684.0	5,697.0	5,688.4	12.3	11.2	137.36	-277.2	79.9	220.8	198.7	22.12	9.986		
5,800.0	5,783.7	5,796.9	5,788.2	12.5	11.4	137.32	-282.7	81.9	224.7	202.1	22.51	9.979		
5,900.0	5,883.4	5,896.8	5,887.9	12.7	11.6	137.28	-288.2	83.9	228.5	205.6	22.91	9.972		
6,000.0	5,983.1	5,996.8	5,987.7	12.9	11.8	137.24	-293.7	85.9	232.3	209.0	23.31	9.966		
6,100.0	6,082.8	6,096.7	6,087.5	13.2	12.0	137.21	-299.2	87.9	236.2	212.4	23.71	9.959		
6,200.0	6,182.5	6,196.6	6,187.2	13.4	12.2	137.17	-304.7	89.8	240.0	215.9	24.11	9.953		
6,300.0	6,282.1	6,296.6	6,287.0	13.6	12.4	137.14	-310.2	91.8	243.8	219.3	24.51	9.948		
6,400.0	6,381.8	6,396.5	6,386.7	13.8	12.6	137.11	-315.8	93.8	247.6	222.7	24.91	9.942		
6,500.0	6,481.5	6,496.4	6,486.5	14.1	12.8	137.08	-321.3	95.8	251.5	226.2	25.31	9.936		
6,600.0	6,581.2	6,596.3	6,586.2	14.3	13.0	137.04	-326.8	97.8	255.3	229.6	25.71	9.931		
6,700.0	6,680.9	6,696.3	6,686.0	14.5	13.2	137.01	-332.3	99.8	259.1	233.0	26.11	9.926		
6,800.0	6,780.6	6,796.2	6,785.7	14.7	13.4	141.27	-337.8	101.7	263.0	236.5	26.51	9.921		
6,900.0	6,880.2	6,896.1	6,885.5	14.8	13.6	-116.25	-342.5	103.7	267.0	240.1	26.88	9.934		
7,000.0	6,977.6	6,998.1	6,987.0	14.9	13.7	-105.15	-333.8	105.7	271.5	244.4	27.02	10.048		
7,100.0	7,069.8	7,102.7	7,087.7	14.8	13.6	-103.47	-306.3	107.7	276.2	249.4	26.87	10.280		
7,200.0	7,154.0	7,209.7	7,183.8	14.7	13.5	-103.64	-259.7	109.7	281.0	254.5	26.52	10.599		
7,300.0	7,227.7	7,319.1	7,271.5	14.6	13.3	-104.30	-194.5	111.4	285.5	259.4	26.09	10.944		
7,400.0	7,288.6	7,430.6	7,346.4	14.7	13.3	-105.02	-112.1	112.9	289.4	263.6	25.79	11.223		
7,500.0	7,334.9	7,543.9	7,404.7	14.8	13.3	-105.60	-15.2	114.0	292.4	266.5	25.82	11.321		
7,600.0	7,365.1	7,658.5	7,443.2	15.1	13.7	-105.94	92.5	114.8	294.2	267.8	26.39	11.149		
7,700.0	7,378.4	7,773.6	7,459.5	15.7	14.3	-105.98	206.3	115.1	294.8	267.2	27.56	10.696		
7,800.0	7,379.0	7,876.8	7,460.0	16.3	15.1	-105.96	309.4	115.1	294.6	265.5	29.07	10.133		
7,900.0	7,379.0	7,976.8	7,460.0	17.2	16.0	-105.97	409.4	115.1	294.4	263.6	30.83	9.550		
8,000.0	7,379.0	8,076.8	7,460.0	18.2	17.0	-105.98	509.4	115.1	294.2	261.4	32.84	8.961		
8,100.0	7,379.0	8,176.8	7,460.0	19.2	18.2	-105.99	609.4	115.1	294.1	259.0	35.06	8.389		
8,200.0	7,379.0	8,276.8	7,460.0	20.4	19.4	-106.00	709.4	115.1	293.9	256.5	37.45	7.849		
8,300.0	7,379.0	8,376.8	7,460.0	21.7	20.7	-106.01	809.4	115.1	293.7	253.8	39.98	7.347		
8,400.0	7,379.0	8,476.8	7,460.0	23.0	22.1	-106.02	909.4	115.1	293.6	250.9	42.63	6.887		
8,500.0	7,379.0	8,576.8	7,460.0	24.3	23.5	-106.03	1,009.4	115.1	293.4	248.0	45.38	6.466		
8,600.0	7,379.0	8,676.8	7,460.0	25.8	25.0	-106.04	1,109.4	115.1	293.2	245.0	48.20	6.084		
8,700.0	7,379.0	8,776.8	7,460.0	27.2	26.5	-106.04	1,209.4	115.1	293.1	242.0	51.09	5.736		
8,800.0	7,379.0	8,876.8	7,460.0	28.7	28.0	-106.05	1,309.4	115.1	292.9	238.9	54.04	5.420		
8,900.0	7,379.0	8,976.8	7,460.0	30.2	29.6	-106.06	1,409.4	115.1	292.7	235.7	57.03	5.133		
9,000.0	7,379.0	9,076.8	7,460.0	31.8	31.2	-106.07	1,509.4	115.1	292.6	232.5	60.07	4.871		
9,093.6	7,379.0	9,170.1	7,460.0	33.2	32.6	-106.08	1,602.8	115.1	292.4	229.5	62.93	4.647		
9,100.0	7,379.0	9,176.0	7,460.0	33.3	32.7	-106.08	1,608.6	115.1	292.4	229.3	63.12	4.633		
9,200.0	7,379.0	9,273.4	7,460.0	34.9	34.3	-106.03	1,706.0	114.1	293.3	227.1	66.19	4.431		
9,300.0	7,379.0	9,373.4	7,460.0	36.5	35.9	-105.98	1,806.0	112.9	294.3	224.9	69.33	4.244		
9,400.0	7,379.0	9,473.4	7,460.0	38.1	37.6	-105.92	1,906.0	111.7	295.3	222.8	72.50	4.073		
9,500.0	7,379.0	9,573.4	7,460.0	39.8	39.2	-105.87	2,006.0	110.5	296.2	220.6	75.68	3.914		
9,600.0	7,379.0	9,673.4	7,460.0	41.4	40.9	-105.81	2,106.0	109.3	297.2	218.3	78.89	3.768		
9,700.0	7,379.0	9,773.4	7,460.0	43.0	42.5	-105.76	2,206.0	108.1	298.2	216.1	82.11	3.632		
9,800.0	7,379.0	9,873.4	7,460.0	44.7	44.2	-105.71	2,306.0	106.9	299.2	213.9	85.35	3.506		
9,900.0	7,379.0	9,973.3	7,460.0	46.4	45.9	-105.65	2,405.9	105.7	300.2	211.6	88.60	3.388		
10,000.0	7,379.0	10,073.3	7,460.0	48.0	47.5	-105.60	2,505.9	104.5	301.2	209.3	91.86	3.279		
10,100.0	7,379.0	10,173.3	7,460.0	49.7	49.2	-105.55	2,605.9	103.2	302.2	207.1	95.13	3.176		
10,200.0	7,379.0	10,273.3	7,460.0	51.4	50.9	-105.50	2,705.9	102.0	303.2	204.8	98.42	3.081		

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 3F-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 3F-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 #2													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		
10,300.0	7,379.0	10,373.3	7,460.0	53.1	52.6	-105.44	2,805.9	100.8	304.2	202.5	101.71	2.991		
10,400.0	7,379.0	10,473.3	7,460.0	54.7	54.3	-105.39	2,905.9	99.6	305.2	200.2	105.01	2.906		
10,500.0	7,379.0	10,573.3	7,460.0	56.4	56.0	-105.34	3,005.9	98.4	306.2	197.8	108.32	2.826		
10,600.0	7,379.0	10,673.3	7,460.0	58.1	57.7	-105.29	3,105.9	97.2	307.2	195.5	111.64	2.751		
10,700.0	7,379.0	10,773.3	7,460.0	59.8	59.4	-105.24	3,205.8	96.0	308.1	193.2	114.96	2.680		
10,800.0	7,379.0	10,873.3	7,460.0	61.5	61.1	-105.19	3,305.8	94.8	309.1	190.8	118.29	2.613		
10,900.0	7,379.0	10,973.3	7,460.0	63.2	62.9	-105.14	3,405.8	93.6	310.1	188.5	121.63	2.550		
11,000.0	7,379.0	11,073.3	7,460.0	64.9	64.6	-105.09	3,505.8	92.4	311.1	186.2	124.97	2.490		
11,100.0	7,379.0	11,173.3	7,460.0	66.6	66.3	-105.04	3,605.8	91.2	312.1	183.8	128.31	2.432		
11,200.0	7,379.0	11,273.3	7,460.0	68.4	68.0	-104.99	3,705.8	90.0	313.1	181.4	131.66	2.378		
11,300.0	7,379.0	11,373.3	7,460.0	70.1	69.7	-104.94	3,805.8	88.8	314.1	179.1	135.02	2.326		
11,400.0	7,379.0	11,473.3	7,460.0	71.8	71.4	-104.90	3,905.8	87.6	315.1	176.7	138.38	2.277		
11,500.0	7,379.0	11,573.3	7,460.0	73.5	73.2	-104.85	4,005.7	86.4	316.1	174.4	141.74	2.230		
11,600.0	7,379.0	11,673.3	7,460.0	75.2	74.9	-104.80	4,105.7	85.2	317.1	172.0	145.11	2.185		
11,700.0	7,379.0	11,773.3	7,460.0	76.9	76.6	-104.75	4,205.7	84.0	318.1	169.6	148.48	2.142		
11,800.0	7,379.0	11,873.2	7,460.0	78.7	78.3	-104.71	4,305.7	82.8	319.1	167.2	151.86	2.101		
11,900.0	7,379.0	11,973.2	7,460.0	80.4	80.1	-104.66	4,405.7	81.6	320.1	164.8	155.24	2.062		
12,000.0	7,379.0	12,073.2	7,460.0	82.1	81.8	-104.61	4,505.7	80.4	321.1	162.5	158.62	2.024		
12,100.0	7,379.0	12,173.2	7,460.0	83.8	83.5	-104.57	4,605.7	79.2	322.1	160.1	162.00	1.988		
12,200.0	7,379.0	12,273.2	7,460.0	85.6	85.3	-104.52	4,705.7	78.0	323.1	157.7	165.39	1.953		
12,300.0	7,379.0	12,373.2	7,460.0	87.3	87.0	-104.48	4,805.6	76.8	324.1	155.3	168.78	1.920		
12,400.0	7,379.0	12,473.2	7,460.0	89.0	88.7	-104.43	4,905.6	75.6	325.1	152.9	172.17	1.888		
12,500.0	7,379.0	12,573.2	7,460.0	90.8	90.5	-104.39	5,005.6	74.4	326.1	150.5	175.57	1.857		
12,600.0	7,379.0	12,673.2	7,460.0	92.5	92.2	-104.34	5,105.6	73.2	327.1	148.1	178.97	1.827		
12,700.0	7,379.0	12,773.2	7,460.0	94.2	93.9	-104.23	5,205.6	72.0	329.6	147.1	182.55	1.806		
12,800.0	7,379.0	12,873.1	7,460.0	96.0	95.7	-104.09	5,305.5	70.7	332.9	146.8	186.03	1.789		
12,900.0	7,379.0	12,973.1	7,460.0	97.7	97.4	-103.95	5,405.4	69.5	336.1	146.6	189.51	1.774		
13,000.0	7,379.0	13,073.0	7,460.0	99.4	99.2	-103.82	5,505.4	68.3	339.4	146.4	192.99	1.759		
13,100.0	7,379.0	13,172.9	7,460.0	101.2	100.9	-103.68	5,605.3	67.1	342.6	146.2	196.47	1.744		
13,200.0	7,379.0	13,272.9	7,460.0	102.9	102.6	-103.55	5,705.2	65.9	345.9	145.9	199.96	1.730		
13,300.0	7,379.0	13,372.8	7,460.0	104.6	104.4	-103.42	5,805.2	64.7	349.1	145.7	203.44	1.716		
13,400.0	7,379.0	13,472.8	7,460.0	106.4	106.1	-103.30	5,905.1	63.5	352.4	145.5	206.93	1.703		
13,500.0	7,379.0	13,572.7	7,460.0	108.1	107.8	-103.17	6,005.1	62.3	355.7	145.2	210.42	1.690		
13,600.0	7,379.0	13,672.7	7,460.0	109.9	109.6	-103.05	6,105.0	61.1	358.9	145.0	213.91	1.678		
13,700.0	7,379.0	13,772.6	7,460.0	111.6	111.3	-102.93	6,204.9	59.9	362.2	144.8	217.41	1.666		
13,800.0	7,379.0	13,872.5	7,460.0	113.3	113.1	-102.81	6,304.9	58.7	365.4	144.5	220.90	1.654		
13,900.0	7,379.0	13,972.5	7,460.0	115.1	114.8	-102.70	6,404.8	57.5	368.7	144.3	224.40	1.643		
14,000.0	7,379.0	14,072.4	7,460.0	116.8	116.5	-102.58	6,504.7	56.3	372.0	144.1	227.89	1.632		
14,100.0	7,379.0	14,172.4	7,460.0	118.6	118.3	-102.47	6,604.7	55.1	375.3	143.9	231.39	1.622		
14,200.0	7,379.0	14,272.3	7,460.0	120.3	120.0	-102.36	6,704.6	53.9	378.5	143.6	234.89	1.611		
14,300.0	7,379.0	14,372.3	7,460.0	122.1	121.8	-102.26	6,804.6	52.7	381.8	143.4	238.39	1.602		
14,400.0	7,379.0	14,472.2	7,460.0	123.8	123.5	-102.15	6,904.5	51.5	385.1	143.2	241.89	1.592		
14,500.0	7,379.0	14,572.2	7,460.0	125.5	125.3	-102.05	7,004.4	50.3	388.3	143.0	245.39	1.583		
14,600.0	7,379.0	14,672.1	7,460.0	127.3	127.0	-101.94	7,104.4	49.1	391.6	142.7	248.89	1.573		
14,700.0	7,379.0	14,772.0	7,460.0	129.0	128.7	-101.84	7,204.3	47.9	394.9	142.5	252.40	1.565		
14,800.0	7,379.0	14,872.0	7,460.0	130.8	130.5	-101.74	7,304.2	46.7	398.2	142.3	255.90	1.556		
14,900.0	7,379.0	14,971.9	7,460.0	132.5	132.2	-101.65	7,404.2	45.5	401.5	142.0	259.40	1.548		
15,000.0	7,379.0	15,071.9	7,460.0	134.3	134.0	-101.55	7,504.1	44.3	404.7	141.8	262.91	1.539		
15,096.7	7,379.0	15,168.6	7,460.0	136.0	135.7	-101.46	7,600.8	43.1	407.9	141.6	266.30	1.532 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 #2													Offset Site Error:	0.0 ft
Survey Program: O-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)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-10.1	10.5					
100.0	100.0	97.0	97.0	0.2	0.1	-90.00	0.0	-10.1	10.1	9.8	0.30	33.658		
200.0	200.0	197.0	197.0	0.3	0.3	-90.00	0.0	-10.1	10.1	9.4	0.65	15.549		
300.0	300.0	297.0	297.0	0.5	0.5	-90.00	0.0	-10.1	10.1	9.1	1.00	10.103 CC		
400.0	400.0	397.1	397.1	0.7	0.7	137.16	-0.6	-9.5	10.2	8.8	1.35	7.550		
500.0	500.0	497.2	497.2	0.9	0.8	136.31	-2.6	-7.8	10.4	8.7	1.70	6.115 ES		
600.0	599.9	597.3	597.2	1.0	1.0	134.84	-5.8	-5.0	10.8	8.7	2.06	5.219		
700.0	699.7	697.5	697.1	1.2	1.2	132.88	-10.3	-1.0	11.3	8.8	2.44	4.624		
800.0	799.4	797.4	796.9	1.4	1.4	133.68	-15.5	3.5	12.4	9.6	2.82	4.399		
900.0	899.1	897.4	896.7	1.7	1.6	135.09	-20.6	8.0	13.7	10.5	3.20	4.282		
1,000.0	998.8	997.4	996.4	1.9	1.8	136.26	-25.7	12.5	15.0	11.4	3.58	4.191		
1,100.0	1,098.4	1,097.4	1,096.2	2.1	2.0	137.24	-30.8	17.0	16.3	12.4	3.96	4.119		
1,200.0	1,198.1	1,197.4	1,195.9	2.3	2.3	138.08	-35.9	21.5	17.6	13.3	4.35	4.061		
1,300.0	1,297.8	1,297.4	1,295.7	2.5	2.5	138.80	-41.0	26.0	19.0	14.2	4.73	4.012		
1,400.0	1,397.5	1,397.4	1,395.5	2.7	2.7	139.42	-46.1	30.5	20.3	15.2	5.11	3.972		
1,500.0	1,497.2	1,497.4	1,495.2	3.0	2.9	139.97	-51.2	35.0	21.6	16.1	5.49	3.938		
1,600.0	1,596.9	1,597.4	1,595.0	3.2	3.1	140.46	-56.3	39.5	23.0	17.1	5.87	3.909		
1,700.0	1,696.6	1,697.4	1,694.7	3.4	3.3	140.89	-61.4	44.0	24.3	18.0	6.25	3.884		
1,800.0	1,796.2	1,797.4	1,794.5	3.6	3.5	141.27	-66.6	48.5	25.6	19.0	6.63	3.862		
1,900.0	1,895.9	1,897.3	1,894.2	3.8	3.7	141.62	-71.7	53.0	27.0	19.9	7.02	3.842		
2,000.0	1,995.6	1,997.3	1,994.0	4.1	3.9	141.94	-76.8	57.5	28.3	20.9	7.40	3.825		
2,100.0	2,095.3	2,097.3	2,093.8	4.3	4.1	142.22	-81.9	62.0	29.6	21.8	7.78	3.810		
2,200.0	2,195.0	2,197.3	2,193.5	4.5	4.3	142.49	-87.0	66.5	31.0	22.8	8.16	3.796		
2,300.0	2,294.7	2,297.3	2,293.3	4.7	4.6	142.73	-92.1	71.0	32.3	23.8	8.54	3.784		
2,400.0	2,394.4	2,397.3	2,393.0	4.9	4.8	142.95	-97.2	75.5	33.6	24.7	8.92	3.773		
2,500.0	2,494.1	2,497.3	2,492.8	5.2	5.0	143.15	-102.3	80.0	35.0	25.7	9.30	3.762		
2,600.0	2,593.7	2,597.3	2,592.6	5.4	5.2	143.34	-107.4	84.4	36.3	26.6	9.68	3.753		
2,700.0	2,693.4	2,697.3	2,692.3	5.6	5.4	143.52	-112.5	88.9	37.7	27.6	10.05	3.745		
2,800.0	2,793.1	2,797.3	2,792.1	5.8	5.6	143.68	-117.6	93.4	39.0	28.6	10.43	3.737		
2,900.0	2,892.8	2,897.3	2,891.8	6.0	5.8	143.84	-122.8	97.9	40.3	29.5	10.81	3.729		
3,000.0	2,992.5	2,997.2	2,991.6	6.3	6.0	143.98	-127.9	102.4	41.7	30.5	11.19	3.723		
3,100.0	3,092.2	3,097.2	3,091.4	6.5	6.2	144.11	-133.0	106.9	43.0	31.4	11.57	3.717		
3,200.0	3,191.9	3,197.2	3,191.1	6.7	6.4	144.24	-138.1	111.4	44.3	32.4	11.95	3.711		
3,300.0	3,291.5	3,297.2	3,290.9	6.9	6.7	144.36	-143.2	115.9	45.7	33.4	12.33	3.705		
3,400.0	3,391.2	3,397.2	3,390.6	7.2	6.9	144.47	-148.3	120.4	47.0	34.3	12.71	3.700		
3,500.0	3,490.9	3,497.2	3,490.4	7.4	7.1	144.58	-153.4	124.9	48.4	35.3	13.09	3.696		
3,600.0	3,590.6	3,597.2	3,590.2	7.6	7.3	144.68	-158.5	129.4	49.7	36.2	13.47	3.691		
3,700.0	3,690.3	3,697.2	3,689.9	7.8	7.5	144.77	-163.6	133.9	51.1	37.2	13.85	3.687		
3,800.0	3,790.0	3,797.2	3,789.7	8.0	7.7	144.86	-168.7	138.4	52.4	38.2	14.23	3.683		
3,900.0	3,889.7	3,897.2	3,889.4	8.3	7.9	144.95	-173.9	142.9	53.7	39.1	14.60	3.679		
4,000.0	3,989.4	3,997.2	3,989.2	8.5	8.1	145.03	-179.0	147.4	55.1	40.1	14.98	3.676		
4,100.0	4,089.0	4,097.1	4,088.9	8.7	8.3	145.10	-184.1	151.9	56.4	41.1	15.36	3.672		
4,200.0	4,188.7	4,197.1	4,188.7	8.9	8.6	145.18	-189.2	156.4	57.8	42.0	15.74	3.669		
4,300.0	4,288.4	4,297.1	4,288.5	9.2	8.8	145.25	-194.3	160.9	59.1	43.0	16.12	3.666		
4,400.0	4,388.1	4,397.1	4,388.2	9.4	9.0	145.32	-199.4	165.4	60.4	43.9	16.50	3.663		
4,500.0	4,487.8	4,497.1	4,488.0	9.6	9.2	145.38	-204.5	169.9	61.8	44.9	16.88	3.661		
4,600.0	4,587.5	4,597.1	4,587.7	9.8	9.4	145.44	-209.6	174.4	63.1	45.9	17.26	3.658		
4,700.0	4,687.2	4,697.1	4,687.5	10.0	9.6	145.50	-214.7	178.9	64.5	46.8	17.64	3.656		
4,800.0	4,786.8	4,797.1	4,787.3	10.3	9.8	145.56	-219.8	183.4	65.8	47.8	18.01	3.653		
4,900.0	4,886.5	4,897.1	4,887.0	10.5	10.0	145.61	-225.0	187.9	67.2	48.8	18.39	3.651		
5,000.0	4,986.2	4,997.1	4,986.8	10.7	10.2	145.67	-230.1	192.3	68.5	49.7	18.77	3.649		
5,100.0	5,085.9	5,097.1	5,086.5	10.9	10.5	145.72	-235.2	196.8	69.8	50.7	19.15	3.647		

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 3F-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 3F-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 #2													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		
5,200.0	5,185.6	5,197.1	5,186.3	11.2	10.7	145.76	-240.3	201.3	71.2	51.6	19.53	3.645		
5,300.0	5,285.3	5,297.0	5,286.1	11.4	10.9	145.81	-245.4	205.8	72.5	52.6	19.91	3.643		
5,400.0	5,385.0	5,397.0	5,385.8	11.6	11.1	145.86	-250.5	210.3	73.9	53.6	20.29	3.641		
5,500.0	5,484.7	5,497.0	5,485.6	11.8	11.3	145.90	-255.6	214.8	75.2	54.5	20.66	3.639		
5,600.0	5,584.3	5,597.0	5,585.3	12.1	11.5	145.94	-260.7	219.3	76.5	55.5	21.04	3.638		
5,700.0	5,684.0	5,697.0	5,685.1	12.3	11.7	145.98	-265.8	223.8	77.9	56.5	21.42	3.636		
5,800.0	5,783.7	5,797.0	5,784.9	12.5	11.9	146.02	-270.9	228.3	79.2	57.4	21.80	3.634		
5,900.0	5,883.4	5,897.0	5,884.6	12.7	12.1	146.06	-276.0	232.8	80.6	58.4	22.18	3.633		
6,000.0	5,983.1	5,997.0	5,984.4	12.9	12.4	146.09	-281.2	237.3	81.9	59.4	22.56	3.631		
6,100.0	6,082.8	6,097.0	6,084.1	13.2	12.6	146.13	-286.3	241.8	83.3	60.3	22.94	3.630		
6,200.0	6,182.5	6,197.0	6,183.9	13.4	12.8	146.16	-291.4	246.3	84.6	61.3	23.31	3.629		
6,300.0	6,282.1	6,297.0	6,283.6	13.6	13.0	146.20	-296.5	250.8	85.9	62.3	23.69	3.627		
6,400.0	6,381.8	6,396.9	6,383.4	13.8	13.2	146.23	-301.6	255.3	87.3	63.2	24.07	3.626		
6,500.0	6,481.5	6,496.9	6,483.2	14.1	13.4	146.26	-306.7	259.8	88.6	64.2	24.45	3.625		
6,600.0	6,581.2	6,596.9	6,582.9	14.3	13.6	146.29	-311.8	264.3	90.0	65.1	24.83	3.624		
6,700.0	6,680.9	6,696.9	6,682.7	14.5	13.8	146.32	-316.9	268.8	91.3	66.1	25.21	3.623		
6,800.0	6,780.6	6,796.9	6,782.4	14.7	14.0	150.62	-322.0	273.3	92.7	67.1	25.59	3.621		
6,900.0	6,880.2	6,896.3	6,881.7	14.8	14.3	-111.07	-327.1	277.7	93.0	66.6	26.37	3.525		
7,000.0	6,977.6	6,992.7	6,977.8	14.9	14.5	-112.60	-332.0	282.1	96.4	68.7	27.66	3.485		
7,100.0	7,069.8	7,091.6	7,076.5	14.8	14.6	-126.48	-331.2	286.5	111.7	83.7	27.99	3.990		
7,200.0	7,154.0	7,199.0	7,181.7	14.7	14.6	-137.80	-311.3	291.3	135.6	108.8	26.74	5.069		
7,300.0	7,227.7	7,315.7	7,289.8	14.6	14.5	-145.73	-267.9	296.1	162.8	138.1	24.64	6.606		
7,400.0	7,288.6	7,443.4	7,395.2	14.7	14.4	-151.13	-196.5	300.9	189.3	167.0	22.32	8.482		
7,500.0	7,334.9	7,582.7	7,489.1	14.8	14.4	-154.73	-94.2	305.1	212.1	191.8	20.31	10.446		
7,600.0	7,365.1	7,732.9	7,559.5	15.1	14.6	-156.95	38.0	308.3	228.6	209.5	19.11	11.960		
7,700.0	7,378.4	7,890.7	7,594.0	15.7	15.3	-157.98	191.5	309.8	236.6	217.4	19.17	12.342		
7,800.0	7,379.0	8,008.7	7,596.0	16.3	16.1	-158.10	309.4	309.9	237.1	217.1	19.98	11.870		
7,900.0	7,379.0	8,108.7	7,596.0	17.2	17.0	-158.14	409.4	309.9	237.0	216.3	20.77	11.413		
8,000.0	7,379.0	8,208.7	7,596.0	18.2	18.0	-158.18	509.4	309.9	237.0	215.4	21.62	10.962		
8,100.0	7,379.0	8,308.7	7,596.0	19.2	19.1	-158.22	609.4	309.9	236.9	214.4	22.51	10.524		
8,200.0	7,379.0	8,408.7	7,596.0	20.4	20.2	-158.26	709.4	309.9	236.9	213.4	23.45	10.101		
8,300.0	7,379.0	8,508.7	7,596.0	21.7	21.5	-158.30	809.4	309.9	236.8	212.4	24.42	9.697		
8,400.0	7,379.0	8,608.7	7,596.0	23.0	22.8	-158.34	909.4	309.9	236.7	211.3	25.42	9.312		
8,500.0	7,379.0	8,708.7	7,596.0	24.3	24.2	-158.37	1,009.4	309.9	236.7	210.2	26.45	8.948		
8,600.0	7,379.0	8,808.7	7,596.0	25.8	25.6	-158.41	1,109.4	309.9	236.6	209.1	27.50	8.604		
8,700.0	7,379.0	8,908.7	7,596.0	27.2	27.1	-158.45	1,209.4	309.9	236.5	208.0	28.57	8.279		
8,800.0	7,379.0	9,008.7	7,596.0	28.7	28.6	-158.49	1,309.4	309.9	236.5	206.8	29.66	7.974		
8,900.0	7,379.0	9,108.7	7,596.0	30.2	30.1	-158.53	1,409.4	309.9	236.4	205.6	30.76	7.686		
9,000.0	7,379.0	9,208.7	7,596.0	31.8	31.7	-158.57	1,509.4	309.9	236.3	204.5	31.87	7.415		
9,100.0	7,379.0	9,308.7	7,596.0	33.3	33.3	-158.61	1,609.4	309.9	236.3	203.3	33.00	7.160		
9,200.0	7,379.0	9,408.7	7,596.0	34.9	34.9	-158.65	1,709.4	309.9	236.2	202.1	34.13	6.920		
9,300.0	7,379.0	9,508.7	7,596.0	36.5	36.5	-158.69	1,809.4	309.9	236.1	200.9	35.28	6.694		
9,400.0	7,379.0	9,608.7	7,596.0	38.1	38.1	-158.73	1,909.4	309.9	236.1	199.7	36.43	6.481		
9,500.0	7,379.0	9,708.7	7,596.0	39.8	39.7	-158.77	2,009.4	309.9	236.0	198.4	37.58	6.280		
9,600.0	7,379.0	9,808.7	7,596.0	41.4	41.3	-158.81	2,109.4	309.9	236.0	197.2	38.74	6.090		
9,700.0	7,379.0	9,908.7	7,596.0	43.0	43.0	-158.85	2,209.4	309.9	235.9	196.0	39.91	5.911		
9,800.0	7,379.0	10,008.7	7,596.0	44.7	44.6	-158.89	2,309.4	309.9	235.8	194.8	41.07	5.742		
9,900.0	7,379.0	10,108.7	7,596.0	46.4	46.3	-158.93	2,409.4	309.9	235.8	193.5	42.24	5.581		
10,000.0	7,379.0	10,208.7	7,596.0	48.0	48.0	-158.97	2,509.4	309.9	235.7	192.3	43.41	5.429		
10,100.0	7,379.0	10,308.7	7,596.0	49.7	49.7	-159.01	2,609.4	309.9	235.6	191.1	44.59	5.285		
10,200.0	7,379.0	10,408.7	7,596.0	51.4	51.3	-159.05	2,709.4	309.9	235.6	189.8	45.76	5.148		
10,300.0	7,379.0	10,508.7	7,596.0	53.1	53.0	-159.09	2,809.4	309.9	235.5	188.6	46.93	5.018		

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 3F-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 3F-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 #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	
10,400.0	7,379.0	10,608.7	7,596.0	54.7	54.7	-159.12	2,909.4	309.9	235.5	187.3	48.11	4.894		
10,500.0	7,379.0	10,708.7	7,596.0	56.4	56.4	-159.16	3,009.4	309.9	235.4	186.1	49.28	4.776		
10,600.0	7,379.0	10,808.7	7,596.0	58.1	58.1	-159.20	3,109.4	309.9	235.3	184.9	50.46	4.664		
10,700.0	7,379.0	10,908.7	7,596.0	59.8	59.8	-159.24	3,209.4	309.9	235.3	183.6	51.63	4.557		
10,800.0	7,379.0	11,008.7	7,596.0	61.5	61.5	-159.28	3,309.4	309.9	235.2	182.4	52.80	4.454		
10,900.0	7,379.0	11,108.7	7,596.0	63.2	63.2	-159.32	3,409.4	309.9	235.1	181.2	53.97	4.357		
11,000.0	7,379.0	11,208.7	7,596.0	64.9	64.9	-159.36	3,509.4	309.9	235.1	179.9	55.14	4.263		
11,100.0	7,379.0	11,308.7	7,596.0	66.6	66.6	-159.40	3,609.4	309.9	235.0	178.7	56.31	4.174		
11,200.0	7,379.0	11,408.7	7,596.0	68.4	68.3	-159.44	3,709.4	309.9	235.0	177.5	57.48	4.088		
11,300.0	7,379.0	11,508.7	7,596.0	70.1	70.1	-159.48	3,809.4	309.9	234.9	176.3	58.64	4.006		
11,400.0	7,379.0	11,608.7	7,596.0	71.8	71.8	-159.52	3,909.4	309.9	234.8	175.0	59.80	3.927		
11,500.0	7,379.0	11,708.7	7,596.0	73.5	73.5	-159.56	4,009.4	309.9	234.8	173.8	60.96	3.851		
11,600.0	7,379.0	11,808.7	7,596.0	75.2	75.2	-159.60	4,109.4	309.9	234.7	172.6	62.12	3.779		
11,700.0	7,379.0	11,908.7	7,596.0	76.9	76.9	-159.64	4,209.4	309.9	234.7	171.4	63.27	3.709		
11,800.0	7,379.0	12,008.7	7,596.0	78.7	78.7	-159.68	4,309.4	309.9	234.6	170.2	64.42	3.642		
11,900.0	7,379.0	12,108.7	7,596.0	80.4	80.4	-159.72	4,409.4	309.9	234.5	169.0	65.57	3.577		
12,000.0	7,379.0	12,208.7	7,596.0	82.1	82.1	-159.76	4,509.4	309.9	234.5	167.8	66.72	3.515		
12,100.0	7,379.0	12,308.7	7,596.0	83.8	83.8	-159.80	4,609.4	309.9	234.4	166.6	67.86	3.454		
12,200.0	7,379.0	12,408.7	7,596.0	85.6	85.6	-159.84	4,709.4	309.9	234.4	165.4	69.00	3.396		
12,300.0	7,379.0	12,508.7	7,596.0	87.3	87.3	-159.88	4,809.4	309.9	234.3	164.2	70.14	3.341		
12,400.0	7,379.0	12,608.7	7,596.0	89.0	89.0	-159.92	4,909.4	309.9	234.2	163.0	71.27	3.287		
12,500.0	7,379.0	12,708.7	7,596.0	90.8	90.8	-159.96	5,009.4	309.9	234.2	161.8	72.40	3.234		
12,600.0	7,379.0	12,808.7	7,596.0	92.5	92.5	-160.00	5,109.4	309.9	234.1	160.6	73.53	3.184		
12,602.4	7,379.0	12,811.1	7,596.0	92.5	92.5	-160.00	5,111.8	309.9	234.1	160.6	73.56	3.183		
12,700.0	7,379.0	12,908.7	7,596.0	94.2	94.2	-159.67	5,209.4	309.9	234.6	159.0	75.63	3.102		
12,800.0	7,379.0	13,008.7	7,596.0	96.0	96.0	-159.18	5,309.4	309.9	235.4	157.2	78.15	3.012		
12,900.0	7,379.0	13,108.7	7,596.0	97.7	97.7	-158.70	5,409.4	309.9	236.1	155.4	80.72	2.926		
13,000.0	7,379.0	13,208.6	7,596.0	99.4	99.4	-158.21	5,509.3	309.9	236.9	153.6	83.33	2.843		
13,100.0	7,379.0	13,308.6	7,596.0	101.2	101.2	-157.73	5,609.3	309.9	237.7	151.7	85.99	2.765		
13,200.0	7,379.0	13,408.6	7,596.0	102.9	102.9	-157.26	5,709.3	309.9	238.6	149.9	88.70	2.689		
13,300.0	7,379.0	13,508.6	7,596.0	104.6	104.6	-156.78	5,809.3	309.9	239.4	147.9	91.45	2.618		
13,400.0	7,379.0	13,608.2	7,596.0	106.4	106.4	-156.31	5,908.9	309.9	240.3	146.0	94.25	2.549		
13,500.0	7,379.0	13,704.8	7,596.0	108.1	108.0	-155.44	6,005.5	308.0	242.0	143.7	98.28	2.462		
13,600.0	7,379.0	13,804.3	7,596.0	109.9	109.8	-154.13	6,104.9	303.9	244.6	140.8	103.76	2.357		
13,700.0	7,379.0	13,904.1	7,596.0	111.6	111.5	-152.84	6,204.6	299.9	247.4	138.1	109.31	2.263		
13,800.0	7,379.0	14,003.9	7,596.0	113.3	113.2	-151.57	6,304.3	295.8	250.3	135.4	114.89	2.178		
13,900.0	7,379.0	14,103.7	7,596.0	115.1	115.0	-150.34	6,404.0	291.8	253.3	132.8	120.48	2.102		
14,000.0	7,379.0	14,203.5	7,596.0	116.8	116.7	-149.14	6,503.8	287.7	256.4	130.3	126.09	2.034		
14,100.0	7,379.0	14,303.3	7,596.0	118.6	118.4	-147.97	6,603.5	283.7	259.7	128.0	131.68	1.972		
14,200.0	7,379.0	14,403.1	7,596.0	120.3	120.2	-146.82	6,703.2	279.6	263.0	125.7	137.27	1.916		
14,300.0	7,379.0	14,502.9	7,596.0	122.1	121.9	-145.71	6,802.9	275.6	266.5	123.6	142.85	1.865		
14,400.0	7,379.0	14,602.7	7,596.0	123.8	123.6	-144.62	6,902.7	271.5	270.0	121.6	148.40	1.819		
14,500.0	7,379.0	14,702.5	7,596.0	125.5	125.4	-143.56	7,002.4	267.5	273.6	119.7	153.93	1.778		
14,600.0	7,379.0	14,802.3	7,596.0	127.3	127.1	-142.53	7,102.1	263.4	277.4	118.0	159.42	1.740		
14,700.0	7,379.0	14,902.2	7,596.0	129.0	128.8	-141.53	7,201.8	259.4	281.2	116.3	164.89	1.705		
14,800.0	7,379.0	15,002.0	7,596.0	130.8	130.6	-140.56	7,301.6	255.3	285.1	114.8	170.32	1.674		
14,900.0	7,379.0	15,101.8	7,596.0	132.5	132.3	-139.61	7,401.3	251.3	289.1	113.4	175.71	1.645		
15,000.0	7,379.0	15,201.6	7,596.0	134.3	134.0	-138.68	7,501.0	247.2	293.2	112.1	181.07	1.619		
15,096.7	7,379.0	15,298.1	7,596.0	136.0	135.7	-137.82	7,597.5	243.3	297.2	110.9	186.21	1.596 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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: 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	
4,100.0	4,089.0	4,270.0	4,257.0	8.7	8.2	-43.34	-189.6	1,186.0	987.4	972.0	15.42	64.026		
4,200.0	4,188.7	4,368.1	4,354.0	8.9	8.5	-43.34	-195.0	1,172.7	968.2	952.4	15.80	61.259		
4,300.0	4,288.4	4,466.2	4,451.1	9.2	8.8	-43.34	-200.4	1,159.5	948.9	932.7	16.19	58.621		
4,400.0	4,388.1	4,564.3	4,548.2	9.4	9.0	-43.34	-205.9	1,146.2	929.6	913.1	16.57	56.103		
4,500.0	4,487.8	4,662.5	4,645.2	9.6	9.3	-43.33	-211.3	1,132.9	910.4	893.4	16.95	53.697		
4,600.0	4,587.5	4,760.6	4,742.3	9.8	9.6	-43.33	-216.7	1,119.6	891.1	873.8	17.34	51.397		
4,700.0	4,687.2	4,858.7	4,839.4	10.0	9.9	-43.33	-222.2	1,106.4	871.8	854.1	17.72	49.196		
4,800.0	4,786.8	4,956.8	4,936.5	10.3	10.1	-43.33	-227.6	1,093.1	852.6	834.4	18.11	47.087		
4,900.0	4,886.5	5,055.0	5,033.5	10.5	10.4	-43.32	-233.1	1,079.8	833.3	814.8	18.49	45.065		
5,000.0	4,986.2	5,153.1	5,130.6	10.7	10.7	-43.32	-238.5	1,066.5	814.0	795.1	18.88	43.125		
5,100.0	5,085.9	5,251.2	5,227.7	10.9	11.0	-43.32	-243.9	1,053.3	794.8	775.5	19.26	41.261		
5,200.0	5,185.6	5,349.3	5,324.7	11.2	11.3	-43.31	-249.4	1,040.0	775.5	755.8	19.65	39.471		
5,300.0	5,285.3	5,447.5	5,421.8	11.4	11.6	-43.31	-254.8	1,026.7	756.2	736.2	20.03	37.749		
5,400.0	5,385.0	5,545.6	5,518.9	11.6	11.8	-43.31	-260.3	1,013.4	736.9	716.5	20.42	36.091		
5,500.0	5,484.7	5,643.7	5,616.0	11.8	12.1	-43.30	-265.7	1,000.1	717.7	696.9	20.81	34.495		
5,600.0	5,584.3	5,741.9	5,713.0	12.1	12.4	-43.30	-271.1	986.9	698.4	677.2	21.19	32.956		
5,700.0	5,684.0	5,840.0	5,810.1	12.3	12.7	-43.30	-276.6	973.6	679.1	657.6	21.58	31.473		
5,800.0	5,783.7	5,938.1	5,907.2	12.5	13.0	-43.29	-282.0	960.3	659.9	637.9	21.97	30.041		
5,900.0	5,883.4	6,036.2	6,004.3	12.7	13.3	-43.29	-287.4	947.0	640.6	618.3	22.35	28.659		
6,000.0	5,983.1	6,134.4	6,101.3	12.9	13.6	-43.28	-292.9	933.8	621.3	598.6	22.74	27.324		
6,100.0	6,082.8	6,232.5	6,198.4	13.2	13.9	-43.28	-298.3	920.5	602.1	579.0	23.13	26.033		
6,200.0	6,182.5	6,330.6	6,295.5	13.4	14.2	-43.27	-303.8	907.2	582.8	559.3	23.52	24.784		
6,300.0	6,282.1	6,428.7	6,392.5	13.6	14.4	-43.27	-309.2	893.9	563.5	539.6	23.90	23.576		
6,400.0	6,381.8	6,526.9	6,489.6	13.8	14.7	-43.26	-314.6	880.7	544.3	520.0	24.29	22.406		
6,500.0	6,481.5	6,625.0	6,586.7	14.1	15.0	-43.25	-320.1	867.4	525.0	500.3	24.68	21.273		
6,600.0	6,581.2	6,723.1	6,683.8	14.3	15.3	-43.25	-325.5	854.1	505.7	480.7	25.07	20.175		
6,700.0	6,680.9	6,821.2	6,780.8	14.5	15.6	-43.24	-331.0	840.8	486.5	461.0	25.46	19.111		
6,800.0	6,780.6	6,919.4	6,877.9	14.7	15.9	-38.87	-336.4	827.6	467.2	441.4	25.84	18.078		
6,900.0	6,880.2	7,017.7	6,975.2	14.8	16.2	67.56	-336.1	814.2	448.0	421.9	26.09	17.168		
7,000.0	6,977.6	7,116.9	7,071.9	14.9	16.4	83.54	-319.1	801.0	429.3	403.1	26.16	16.408		
7,100.0	7,069.8	7,217.0	7,165.1	14.8	16.5	89.90	-285.1	788.3	411.7	385.6	26.09	15.780		
7,200.0	7,154.0	7,318.4	7,252.0	14.7	16.6	94.08	-234.5	776.4	395.7	369.7	25.93	15.259		
7,300.0	7,227.7	7,421.0	7,329.6	14.6	16.8	97.26	-168.5	765.8	381.8	356.0	25.80	14.802		
7,400.0	7,288.6	7,524.8	7,395.0	14.7	17.0	99.73	-88.6	756.8	370.5	344.7	25.84	14.337		
7,500.0	7,334.9	7,629.7	7,445.5	14.8	17.4	101.56	2.9	749.9	362.0	335.8	26.21	13.813		
7,600.0	7,365.1	7,735.3	7,478.8	15.1	17.9	102.73	102.9	745.4	356.5	329.5	27.05	13.179		
7,700.0	7,378.4	7,841.4	7,493.4	15.7	18.6	103.21	207.9	743.3	354.2	325.8	28.43	12.459		
7,737.9	7,379.8	7,880.9	7,494.0	15.9	18.8	103.09	247.3	743.3	353.9	324.9	29.07	12.174		
7,800.0	7,379.0	7,943.0	7,494.0	16.3	19.3	103.22	309.4	743.3	354.3	324.1	30.14	11.753		
7,900.0	7,379.0	8,043.0	7,494.0	17.2	20.2	103.21	409.4	743.3	354.4	322.4	32.08	11.049		
8,000.0	7,379.0	8,143.0	7,494.0	18.2	21.2	103.20	509.4	743.2	354.6	320.4	34.25	10.354		
8,100.0	7,379.0	8,243.0	7,494.0	19.2	22.3	103.20	609.4	743.2	354.8	318.2	36.61	9.690		
8,200.0	7,379.0	8,343.0	7,494.0	20.4	23.5	103.19	709.4	743.2	354.9	315.8	39.13	9.071		
8,300.0	7,379.0	8,443.0	7,494.0	21.7	24.7	103.19	809.4	743.2	355.1	313.3	41.78	8.500		
8,400.0	7,379.0	8,543.0	7,494.0	23.0	26.0	103.18	909.4	743.2	355.3	310.7	44.53	7.978		
8,500.0	7,379.0	8,643.0	7,494.0	24.3	27.4	103.17	1,009.4	743.2	355.4	308.1	47.37	7.503		
8,600.0	7,379.0	8,743.0	7,494.0	25.8	28.7	103.17	1,109.4	743.2	355.6	305.3	50.28	7.072		
8,700.0	7,379.0	8,843.0	7,494.0	27.2	30.2	103.16	1,209.4	743.2	355.8	302.5	53.25	6.680		
8,800.0	7,379.0	8,943.0	7,494.0	28.7	31.6	103.15	1,309.4	743.2	355.9	299.6	56.28	6.324		
8,900.0	7,379.0	9,043.0	7,494.0	30.2	33.1	103.15	1,409.4	743.2	356.1	296.7	59.34	6.000		
9,000.0	7,379.0	9,143.0	7,494.0	31.8	34.7	103.14	1,509.4	743.2	356.2	293.8	62.45	5.705		
9,100.0	7,379.0	9,243.0	7,494.0	33.3	36.2	103.14	1,609.4	743.2	356.4	290.8	65.58	5.435		

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 3F-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 3F-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)				
9,200.0	7,379.0	9,343.0	7,494.0	34.9	37.7	103.13	1,709.4	743.2	356.6	287.8	68.74	5.187		
9,300.0	7,379.0	9,443.0	7,494.0	36.5	39.3	103.12	1,809.4	743.2	356.7	284.8	71.93	4.959		
9,400.0	7,379.0	9,543.0	7,494.0	38.1	40.9	103.12	1,909.4	743.2	356.9	281.8	75.14	4.750		
9,500.0	7,379.0	9,643.0	7,494.0	39.8	42.5	103.11	2,009.4	743.2	357.1	278.7	78.36	4.557		
9,600.0	7,379.0	9,743.0	7,494.0	41.4	44.1	103.11	2,109.4	743.2	357.2	275.6	81.60	4.378		
9,700.0	7,379.0	9,843.0	7,494.0	43.0	45.7	103.10	2,209.4	743.2	357.4	272.5	84.86	4.212		
9,800.0	7,379.0	9,943.0	7,494.0	44.7	47.4	103.09	2,309.4	743.1	357.6	269.4	88.13	4.057		
9,900.0	7,379.0	10,043.0	7,494.0	46.4	49.0	103.09	2,409.4	743.1	357.7	266.3	91.41	3.914		
10,000.0	7,379.0	10,143.0	7,494.0	48.0	50.7	103.08	2,509.4	743.1	357.9	263.2	94.69	3.779		
10,100.0	7,379.0	10,243.0	7,494.0	49.7	52.3	103.07	2,609.4	743.1	358.1	260.1	97.99	3.654		
10,200.0	7,379.0	10,343.0	7,494.0	51.4	54.0	103.07	2,709.4	743.1	358.2	256.9	101.30	3.536		
10,300.0	7,379.0	10,443.0	7,494.0	53.1	55.7	103.06	2,809.4	743.1	358.4	253.8	104.61	3.426		
10,400.0	7,379.0	10,543.0	7,494.0	54.7	57.3	103.06	2,909.4	743.1	358.5	250.6	107.94	3.322		
10,500.0	7,379.0	10,643.0	7,494.0	56.4	59.0	103.05	3,009.4	743.1	358.7	247.5	111.26	3.224		
10,600.0	7,379.0	10,743.0	7,494.0	58.1	60.7	103.04	3,109.4	743.1	358.9	244.3	114.60	3.132		
10,700.0	7,379.0	10,843.0	7,494.0	59.8	62.4	103.04	3,209.4	743.1	359.0	241.1	117.93	3.044		
10,800.0	7,379.0	10,943.0	7,494.0	61.5	64.1	103.03	3,309.4	743.1	359.2	237.9	121.28	2.962		
10,900.0	7,379.0	11,043.0	7,494.0	63.2	65.8	103.03	3,409.4	743.1	359.4	234.7	124.62	2.884		
11,000.0	7,379.0	11,143.0	7,494.0	64.9	67.4	103.02	3,509.4	743.1	359.5	231.6	127.97	2.809		
11,100.0	7,379.0	11,243.0	7,494.0	66.6	69.1	103.01	3,609.4	743.1	359.7	228.4	131.33	2.739		
11,200.0	7,379.0	11,343.0	7,494.0	68.4	70.8	103.01	3,709.4	743.1	359.9	225.2	134.69	2.672		
11,300.0	7,379.0	11,443.0	7,494.0	70.1	72.6	103.00	3,809.4	743.1	360.0	222.0	138.05	2.608		
11,400.0	7,379.0	11,543.0	7,494.0	71.8	74.3	103.00	3,909.4	743.1	360.2	218.8	141.42	2.547		
11,500.0	7,379.0	11,643.0	7,494.0	73.5	76.0	102.99	4,009.4	743.1	360.4	215.6	144.78	2.489		
11,600.0	7,379.0	11,743.0	7,494.0	75.2	77.7	102.98	4,109.4	743.0	360.5	212.4	148.15	2.433		
11,700.0	7,379.0	11,843.0	7,494.0	76.9	79.4	102.98	4,209.4	743.0	360.7	209.2	151.53	2.380		
11,800.0	7,379.0	11,943.0	7,494.0	78.7	81.1	102.97	4,309.4	743.0	360.9	206.0	154.90	2.330		
11,900.0	7,379.0	12,043.0	7,494.0	80.4	82.8	102.97	4,409.4	743.0	361.0	202.7	158.28	2.281		
12,000.0	7,379.0	12,143.0	7,494.0	82.1	84.5	102.96	4,509.4	743.0	361.2	199.5	161.66	2.234		
12,100.0	7,379.0	12,243.0	7,494.0	83.8	86.3	102.95	4,609.4	743.0	361.3	196.3	165.04	2.189		
12,200.0	7,379.0	12,343.0	7,494.0	85.6	88.0	102.95	4,709.4	743.0	361.5	193.1	168.43	2.146		
12,300.0	7,379.0	12,443.0	7,494.0	87.3	89.7	102.94	4,809.4	743.0	361.7	189.9	171.81	2.105		
12,400.0	7,379.0	12,543.0	7,494.0	89.0	91.4	102.94	4,909.4	743.0	361.8	186.6	175.20	2.065		
12,500.0	7,379.0	12,643.0	7,494.0	90.8	93.1	102.93	5,009.4	743.0	362.0	183.4	178.59	2.027		
12,600.0	7,379.0	12,743.0	7,494.0	92.5	94.9	102.92	5,109.4	743.0	362.2	180.2	181.97	1.990		
12,700.0	7,379.0	12,843.0	7,494.0	94.2	96.6	102.98	5,209.4	743.0	360.7	175.5	185.20	1.948		
12,800.0	7,379.0	12,943.0	7,494.0	96.0	98.3	103.06	5,309.4	743.0	358.7	170.1	188.53	1.902		
12,900.0	7,379.0	13,042.9	7,494.0	97.7	100.0	103.13	5,409.4	743.0	356.6	164.7	191.86	1.858		
13,000.0	7,379.0	13,142.9	7,494.0	99.4	101.8	103.21	5,509.4	743.0	354.5	159.3	195.19	1.816		
13,100.0	7,379.0	13,242.9	7,494.0	101.2	103.5	103.29	5,609.3	743.0	352.4	153.9	198.51	1.775		
13,200.0	7,379.0	13,342.9	7,494.0	102.9	105.2	103.37	5,709.3	743.0	350.3	148.4	201.83	1.735		
13,300.0	7,379.0	13,442.9	7,494.0	104.6	107.0	103.46	5,809.3	743.0	348.2	143.0	205.15	1.697		
13,400.0	7,379.0	13,542.8	7,494.0	106.4	108.7	103.54	5,909.3	742.9	346.1	137.6	208.47	1.660		
13,500.0	7,379.0	13,642.8	7,494.0	108.1	110.4	103.62	6,009.2	742.9	344.0	132.2	211.79	1.624		
13,600.0	7,379.0	13,742.8	7,494.0	109.9	112.2	103.71	6,109.2	742.9	341.9	126.8	215.10	1.590		
13,700.0	7,379.0	13,842.8	7,494.0	111.6	113.9	103.79	6,209.2	742.9	339.8	121.4	218.41	1.556		
13,800.0	7,379.0	13,942.7	7,494.0	113.3	115.6	103.88	6,309.2	742.9	337.7	116.0	221.71	1.523		
13,900.0	7,379.0	14,042.7	7,494.0	115.1	117.4	103.97	6,409.2	742.9	335.6	110.6	225.01	1.492 Level 3		
14,000.0	7,379.0	14,142.7	7,494.0	116.8	119.1	104.06	6,509.1	742.9	333.6	105.2	228.31	1.461 Level 3		
14,100.0	7,379.0	14,242.7	7,494.0	118.6	120.8	104.15	6,609.1	742.9	331.5	99.9	231.61	1.431 Level 3		
14,200.0	7,379.0	14,342.6	7,494.0	120.3	122.6	104.24	6,709.1	742.9	329.4	94.5	234.90	1.402 Level 3		
14,300.0	7,379.0	14,442.6	7,494.0	122.1	124.3	104.33	6,809.1	742.9	327.3	89.1	238.18	1.374 Level 3		

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 3F-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 3F-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
14,400.0	7,379.0	14,542.6	7,494.0	123.8	126.1	104.43	6,909.0	742.9	325.2	83.8	241.47	1.347	Level 3
14,500.0	7,379.0	14,642.6	7,494.0	125.5	127.8	104.52	7,009.0	742.9	323.1	78.4	244.75	1.320	Level 3
14,600.0	7,379.0	14,742.6	7,494.0	127.3	129.5	104.62	7,109.0	742.9	321.1	73.0	248.02	1.294	Level 3
14,700.0	7,379.0	14,842.5	7,494.0	129.0	131.3	104.71	7,209.0	742.9	319.0	67.7	251.29	1.269	Level 3
14,800.0	7,379.0	14,942.5	7,494.0	130.8	133.0	104.81	7,308.9	742.9	316.9	62.3	254.56	1.245	Level 2
14,900.0	7,379.0	15,042.5	7,494.0	132.5	134.7	104.91	7,408.9	742.9	314.8	57.0	257.82	1.221	Level 2
15,000.0	7,379.0	15,142.5	7,494.0	134.3	136.5	105.01	7,508.9	742.9	312.7	51.7	261.07	1.198	Level 2
15,096.7	7,379.0	15,238.3	7,494.0	136.0	138.2	105.11	7,604.7	742.9	310.7	46.5	264.20	1.176	Level 2, CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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 3H-22H-N268 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-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)	
4,500.0	4,487.8	4,564.8	4,559.7	9.6	8.7	-41.20	-242.7	1,225.6	995.8	979.0	16.88	58.986		
4,600.0	4,587.5	4,664.3	4,659.1	9.8	8.9	-41.31	-246.0	1,221.8	986.1	968.8	17.26	57.118		
4,700.0	4,687.2	4,763.8	4,758.5	10.0	9.1	-41.41	-249.2	1,217.9	976.3	958.7	17.65	55.330		
4,800.0	4,786.8	4,863.3	4,857.9	10.3	9.3	-41.53	-252.5	1,214.0	966.6	948.5	18.03	53.618		
4,900.0	4,886.5	4,962.8	4,957.2	10.5	9.5	-41.64	-255.7	1,210.1	956.8	938.4	18.41	51.976		
5,000.0	4,986.2	5,062.3	5,056.6	10.7	9.6	-41.76	-259.0	1,206.2	947.1	928.3	18.79	50.401		
5,100.0	5,085.9	5,161.8	5,156.0	10.9	9.8	-41.87	-262.2	1,202.3	937.3	918.1	19.17	48.888		
5,200.0	5,185.6	5,261.3	5,255.4	11.2	10.0	-42.00	-265.4	1,198.4	927.6	908.0	19.55	47.434		
5,300.0	5,285.3	5,360.8	5,354.8	11.4	10.2	-42.12	-268.7	1,194.5	917.8	897.9	19.94	46.036		
5,400.0	5,385.0	5,460.3	5,454.1	11.6	10.4	-42.24	-271.9	1,190.6	908.1	887.8	20.32	44.690		
5,500.0	5,484.7	5,559.8	5,553.5	11.8	10.6	-42.37	-275.2	1,186.8	898.4	877.7	20.70	43.394		
5,600.0	5,584.3	5,659.3	5,652.9	12.1	10.8	-42.51	-278.4	1,182.9	888.7	867.6	21.09	42.145		
5,700.0	5,684.0	5,758.8	5,752.3	12.3	11.0	-42.64	-281.6	1,179.0	878.9	857.5	21.47	40.940		
5,800.0	5,783.7	5,858.3	5,851.6	12.5	11.2	-42.78	-284.9	1,175.1	869.2	847.4	21.85	39.777		
5,900.0	5,883.4	5,957.8	5,951.0	12.7	11.4	-42.92	-288.1	1,171.2	859.5	837.3	22.24	38.654		
6,000.0	5,983.1	6,057.3	6,050.4	12.9	11.6	-43.06	-291.4	1,167.3	849.8	827.2	22.62	37.569		
6,100.0	6,082.8	6,156.8	6,149.8	13.2	11.8	-43.21	-294.6	1,163.4	840.1	817.1	23.00	36.520		
6,200.0	6,182.5	6,256.3	6,249.1	13.4	12.0	-43.36	-297.8	1,159.5	830.4	807.0	23.39	35.506		
6,300.0	6,282.1	6,355.8	6,348.5	13.6	12.2	-43.51	-301.1	1,155.7	820.7	797.0	23.77	34.524		
6,400.0	6,381.8	6,455.4	6,447.9	13.8	12.4	-43.67	-304.3	1,151.8	811.1	786.9	24.16	33.573		
6,500.0	6,481.5	6,554.9	6,547.3	14.1	12.6	-43.83	-307.6	1,147.9	801.4	776.8	24.54	32.652		
6,600.0	6,581.2	6,654.4	6,646.6	14.3	12.8	-44.00	-310.8	1,144.0	791.7	766.8	24.93	31.760		
6,700.0	6,680.9	6,753.9	6,746.0	14.5	13.0	-44.17	-314.1	1,140.1	782.1	756.7	25.31	30.894		
6,800.0	6,780.6	6,853.4	6,845.4	14.7	13.2	-44.03	-317.3	1,136.2	772.4	746.7	25.70	30.057		
6,900.0	6,880.2	6,952.5	6,944.4	14.8	13.3	65.47	-320.5	1,132.3	762.6	736.6	25.93	29.412		
7,000.0	6,977.6	7,049.7	7,041.5	14.9	13.5	81.63	-323.4	1,128.5	753.1	727.1	26.02	28.940		
7,100.0	7,069.8	7,151.9	7,143.1	14.8	13.7	88.63	-314.4	1,124.3	745.1	719.1	25.99	28.666		
7,200.0	7,154.0	7,260.5	7,247.4	14.7	13.7	93.49	-285.2	1,119.7	738.8	712.9	25.88	28.548		
7,300.0	7,227.7	7,376.2	7,350.4	14.6	13.8	97.40	-233.1	1,114.7	734.2	708.4	25.75	28.508		
7,400.0	7,288.6	7,499.7	7,446.3	14.7	13.9	100.65	-155.9	1,109.5	731.1	705.3	25.74	28.405		
7,500.0	7,334.9	7,630.8	7,527.6	14.8	14.2	103.23	-53.6	1,104.5	729.0	703.0	26.03	28.010		
7,600.0	7,365.1	7,768.4	7,585.6	15.1	14.8	105.05	70.8	1,100.0	727.5	700.7	26.83	27.120		
7,700.0	7,378.4	7,910.4	7,612.7	15.7	15.8	105.99	209.8	1,096.5	726.2	697.9	28.28	25.682		
7,800.0	7,379.0	8,022.3	7,614.0	16.3	16.9	106.10	321.6	1,094.5	724.7	694.7	30.02	24.139		
7,900.0	7,379.0	8,122.3	7,614.0	17.2	17.9	106.14	421.6	1,092.8	723.2	691.2	31.94	22.640		
8,000.0	7,379.0	8,222.3	7,614.0	18.2	19.1	106.17	521.6	1,091.0	721.7	687.6	34.09	21.170		
8,100.0	7,379.0	8,322.2	7,614.0	19.2	20.3	106.21	621.5	1,089.3	720.1	683.7	36.42	19.773		
8,200.0	7,379.0	8,422.2	7,614.0	20.4	21.6	106.24	721.5	1,087.5	718.6	679.7	38.90	18.471		
8,300.0	7,379.0	8,522.2	7,614.0	21.7	23.0	106.28	821.5	1,085.8	717.1	675.6	41.51	17.274		
8,400.0	7,379.0	8,622.2	7,614.0	23.0	24.4	106.31	921.5	1,084.0	715.6	671.4	44.22	16.182		
8,500.0	7,379.0	8,722.2	7,614.0	24.3	25.8	106.35	1,021.4	1,082.3	714.1	667.1	47.02	15.188		
8,600.0	7,379.0	8,822.2	7,614.0	25.8	27.3	106.39	1,121.4	1,080.5	712.6	662.7	49.88	14.286		
8,700.0	7,379.0	8,922.2	7,614.0	27.2	28.9	106.42	1,221.4	1,078.8	711.1	658.3	52.80	13.467		
8,800.0	7,379.0	9,022.2	7,614.0	28.7	30.4	106.46	1,321.3	1,077.0	709.6	653.8	55.77	12.723		
8,900.0	7,379.0	9,122.1	7,614.0	30.2	32.0	106.49	1,421.3	1,075.3	708.0	649.3	58.78	12.045		
9,000.0	7,379.0	9,222.1	7,614.0	31.8	33.6	106.53	1,521.3	1,073.5	706.5	644.7	61.83	11.428		
9,100.0	7,379.0	9,322.1	7,614.0	33.3	35.2	106.57	1,621.3	1,071.8	705.0	640.1	64.90	10.863		
9,200.0	7,379.0	9,422.1	7,614.0	34.9	36.8	106.60	1,721.2	1,070.0	703.5	635.5	68.00	10.346		
9,300.0	7,379.0	9,522.1	7,614.0	36.5	38.4	106.64	1,821.2	1,068.3	702.0	630.9	71.12	9.870		
9,400.0	7,379.0	9,622.1	7,614.0	38.1	40.0	106.68	1,921.2	1,066.5	700.5	626.2	74.26	9.432		
9,500.0	7,379.0	9,722.1	7,614.0	39.8	41.7	106.71	2,021.1	1,064.8	699.0	621.6	77.42	9.028		
9,600.0	7,379.0	9,822.1	7,614.0	41.4	43.3	106.75	2,121.1	1,063.0	697.5	616.9	80.59	8.654		

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 3F-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 3F-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 3H-22H-N268 - 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		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	
9,700.0	7,379.0	9,922.0	7,614.0	43.0	45.0	106.79	2,221.1	1,061.3	696.0	612.2	83.77	8.307	
9,800.0	7,379.0	10,022.0	7,614.0	44.7	46.7	106.83	2,321.1	1,059.5	694.4	607.5	86.97	7.985	
9,900.0	7,379.0	10,122.0	7,614.0	46.4	48.4	106.86	2,421.0	1,057.8	692.9	602.8	90.17	7.685	
10,000.0	7,379.0	10,222.0	7,614.0	48.0	50.0	106.90	2,521.0	1,056.0	691.4	598.0	93.39	7.404	
10,100.0	7,379.0	10,322.0	7,614.0	49.7	51.7	106.94	2,621.0	1,054.2	689.9	593.3	96.61	7.142	
10,200.0	7,379.0	10,422.0	7,614.0	51.4	53.4	106.98	2,721.0	1,052.5	688.4	588.6	99.83	6.896	
10,300.0	7,379.0	10,522.0	7,614.0	53.1	55.1	107.02	2,820.9	1,050.7	686.9	583.8	103.06	6.665	
10,400.0	7,379.0	10,622.0	7,614.0	54.7	56.8	107.06	2,920.9	1,049.0	685.4	579.1	106.30	6.448	
10,500.0	7,379.0	10,721.9	7,614.0	56.4	58.5	107.09	3,020.9	1,047.2	683.9	574.3	109.54	6.243	
10,600.0	7,379.0	10,821.9	7,614.0	58.1	60.2	107.13	3,120.8	1,045.5	682.4	569.6	112.79	6.050	
10,700.0	7,379.0	10,921.9	7,614.0	59.8	61.9	107.17	3,220.8	1,043.7	680.9	564.8	116.04	5.868	
10,800.0	7,379.0	11,021.9	7,614.0	61.5	63.6	107.21	3,320.8	1,042.0	679.4	560.1	119.29	5.695	
10,900.0	7,379.0	11,121.9	7,614.0	63.2	65.3	107.25	3,420.8	1,040.2	677.9	555.3	122.55	5.532	
11,000.0	7,379.0	11,221.9	7,614.0	64.9	67.1	107.29	3,520.7	1,038.5	676.4	550.6	125.80	5.376	
11,100.0	7,379.0	11,321.9	7,614.0	66.6	68.8	107.33	3,620.7	1,036.7	674.9	545.8	129.06	5.229	
11,200.0	7,379.0	11,421.9	7,614.0	68.4	70.5	107.37	3,720.7	1,035.0	673.4	541.0	132.32	5.089	
11,300.0	7,379.0	11,521.8	7,614.0	70.1	72.2	107.41	3,820.6	1,033.2	671.8	536.3	135.59	4.955	
11,400.0	7,379.0	11,621.8	7,614.0	71.8	73.9	107.45	3,920.6	1,031.5	670.3	531.5	138.85	4.828	
11,500.0	7,379.0	11,721.8	7,614.0	73.5	75.7	107.49	4,020.6	1,029.7	668.8	526.7	142.11	4.706	
11,600.0	7,379.0	11,821.8	7,614.0	75.2	77.4	107.53	4,120.6	1,028.0	667.3	522.0	145.38	4.590	
11,700.0	7,379.0	11,921.8	7,614.0	76.9	79.1	107.57	4,220.5	1,026.2	665.8	517.2	148.65	4.479	
11,800.0	7,379.0	12,021.8	7,614.0	78.7	80.8	107.61	4,320.5	1,024.5	664.3	512.4	151.91	4.373	
11,900.0	7,379.0	12,121.8	7,614.0	80.4	82.6	107.65	4,420.5	1,022.7	662.8	507.7	155.18	4.271	
12,000.0	7,379.0	12,221.8	7,614.0	82.1	84.3	107.70	4,520.5	1,021.0	661.3	502.9	158.45	4.174	
12,100.0	7,379.0	12,321.7	7,614.0	83.8	86.0	107.74	4,620.4	1,019.2	659.8	498.1	161.71	4.080	
12,200.0	7,379.0	12,421.7	7,614.0	85.6	87.8	107.78	4,720.4	1,017.5	658.3	493.3	164.98	3.990	
12,300.0	7,379.0	12,521.7	7,614.0	87.3	89.5	107.82	4,820.4	1,015.7	656.8	488.6	168.25	3.904	
12,400.0	7,379.0	12,621.7	7,614.0	89.0	91.2	107.86	4,920.3	1,014.0	655.3	483.8	171.51	3.821	
12,500.0	7,379.0	12,721.7	7,614.0	90.8	93.0	107.91	5,020.3	1,012.2	653.8	479.0	174.78	3.741	
12,600.0	7,379.0	12,821.7	7,614.0	92.5	94.7	107.95	5,120.3	1,010.5	652.3	474.3	178.05	3.664	
12,700.0	7,379.0	12,921.6	7,614.0	94.2	96.4	108.05	5,220.2	1,008.7	649.3	468.0	181.24	3.583	
12,800.0	7,379.0	13,021.6	7,614.0	96.0	98.2	108.15	5,320.1	1,007.0	645.6	461.1	184.43	3.500	
12,900.0	7,379.0	13,121.5	7,614.0	97.7	99.9	108.26	5,420.0	1,005.2	641.9	454.2	187.62	3.421	
13,000.0	7,379.0	13,221.4	7,614.0	99.4	101.6	108.37	5,519.9	1,003.5	638.2	447.4	190.81	3.345	
13,100.0	7,379.0	13,321.3	7,614.0	101.2	103.4	108.48	5,619.9	1,001.7	634.5	440.5	193.99	3.271	
13,200.0	7,379.0	13,421.3	7,614.0	102.9	105.1	108.59	5,719.8	1,000.0	630.8	433.6	197.17	3.199	
13,300.0	7,379.0	13,521.2	7,614.0	104.6	106.8	108.71	5,819.7	998.2	627.1	426.8	200.34	3.130	
13,400.0	7,379.0	13,621.1	7,614.0	106.4	108.6	108.82	5,919.6	996.5	623.4	419.9	203.50	3.063	
13,500.0	7,379.0	13,721.0	7,614.0	108.1	110.3	108.94	6,019.5	994.7	619.7	413.1	206.66	2.999	
13,600.0	7,379.0	13,820.9	7,614.0	109.9	112.1	109.06	6,119.4	993.0	616.0	406.2	209.82	2.936	
13,700.0	7,379.0	13,910.6	7,614.0	111.6	113.6	109.15	6,209.0	991.9	612.9	400.0	212.83	2.880	
13,800.0	7,379.0	14,000.0	7,614.0	113.3	115.2	109.16	6,298.4	993.3	612.3	396.3	215.93	2.836	
13,801.7	7,379.0	14,000.0	7,614.0	113.4	115.2	109.16	6,298.4	993.3	612.3	396.3	215.95	2.835 CC	
13,900.0	7,379.0	14,076.9	7,614.0	115.1	116.5	109.11	6,375.3	996.7	614.3	395.4	218.91	2.806 ES	
14,000.0	7,379.0	14,165.0	7,614.0	116.8	118.0	108.97	6,463.2	1,003.1	619.1	396.9	222.18	2.786	
14,100.0	7,379.0	14,264.9	7,614.0	118.6	119.8	108.80	6,562.7	1,010.9	624.5	398.8	225.70	2.767	
14,200.0	7,379.0	14,364.7	7,614.0	120.3	121.5	108.64	6,662.2	1,018.7	629.9	400.7	229.21	2.748	
14,300.0	7,379.0	14,464.5	7,614.0	122.1	123.2	108.47	6,761.7	1,026.6	635.3	402.6	232.73	2.730	
14,400.0	7,379.0	14,564.4	7,614.0	123.8	124.9	108.31	6,861.3	1,034.4	640.7	404.5	236.25	2.712	
14,500.0	7,379.0	14,664.2	7,614.0	125.5	126.7	108.15	6,960.8	1,042.3	646.1	406.4	239.77	2.695	
14,600.0	7,379.0	14,764.1	7,614.0	127.3	128.4	108.00	7,060.3	1,050.1	651.6	408.3	243.30	2.678	
14,700.0	7,379.0	14,863.9	7,614.0	129.0	130.1	107.84	7,159.9	1,057.9	657.0	410.2	246.82	2.662	

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 3F-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 3F-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 3H-22H-N268 - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
14,800.0	7,379.0	14,963.7	7,614.0	130.8	131.9	107.69	7,259.4	1,065.8	662.4	412.1	250.35	2.646		
14,900.0	7,379.0	15,063.6	7,614.0	132.5	133.6	107.54	7,358.9	1,073.6	667.9	414.0	253.87	2.631		
15,000.0	7,379.0	15,163.4	7,614.0	134.3	135.3	107.40	7,458.4	1,081.4	673.3	415.9	257.40	2.616		
15,096.7	7,379.0	15,260.0	7,614.0	136.0	137.0	107.26	7,554.7	1,089.0	678.6	417.8	260.81	2.602 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,200.0	7,379.0	7,333.0	7,333.0	20.4	12.8	-90.00	1,618.5	54.5	971.7	939.7	31.96	30.402		
8,300.0	7,379.0	7,333.0	7,333.0	21.7	12.8	-90.00	1,618.5	54.5	878.8	845.5	33.29	26.398		
8,400.0	7,379.0	7,333.0	7,333.0	23.0	12.8	-90.00	1,618.5	54.5	787.6	752.9	34.68	22.712		
8,500.0	7,379.0	7,333.0	7,333.0	24.3	12.8	-90.00	1,618.5	54.5	698.8	662.7	36.11	19.350		
8,600.0	7,379.0	7,333.0	7,333.0	25.8	12.8	-90.00	1,618.5	54.5	613.5	575.9	37.59	16.320		
8,700.0	7,379.0	7,333.0	7,333.0	27.2	12.8	-90.00	1,618.5	54.5	533.4	494.3	39.10	13.639		
8,800.0	7,379.0	7,333.0	7,333.0	28.7	12.8	-90.00	1,618.5	54.5	461.0	420.4	40.65	11.343		
8,900.0	7,379.0	7,333.0	7,333.0	30.2	12.8	-90.00	1,618.5	54.5	400.8	358.6	42.21	9.495		
9,000.0	7,379.0	7,333.0	7,333.0	31.8	12.8	-90.00	1,618.5	54.5	358.7	314.9	43.79	8.191		
9,100.0	7,379.0	7,333.0	7,333.0	33.3	12.8	-90.00	1,618.5	54.5	341.7	296.3	45.40	7.527		
9,109.7	7,379.0	7,333.0	7,333.0	33.5	12.8	-90.00	1,618.5	54.5	341.6	296.0	45.55	7.498 CC, ES, SF		
9,200.0	7,379.0	7,333.0	7,333.0	34.9	12.8	-90.00	1,618.5	54.5	353.3	306.3	47.01	7.515		
9,300.0	7,379.0	7,333.0	7,333.0	36.5	12.8	-90.00	1,618.5	54.5	391.0	342.4	48.64	8.038		
9,400.0	7,379.0	7,333.0	7,333.0	38.1	12.8	-90.00	1,618.5	54.5	448.3	398.0	50.29	8.915		
9,500.0	7,379.0	7,333.0	7,333.0	39.8	12.8	-90.00	1,618.5	54.5	518.7	466.7	51.94	9.987		
9,600.0	7,379.0	7,333.0	7,333.0	41.4	12.8	-90.00	1,618.5	54.5	597.6	544.0	53.60	11.150		
9,700.0	7,379.0	7,333.0	7,333.0	43.0	12.8	-90.00	1,618.5	54.5	682.0	626.8	55.26	12.342		
9,800.0	7,379.0	7,333.0	7,333.0	44.7	12.8	-90.00	1,618.5	54.5	770.2	713.3	56.94	13.528		
9,900.0	7,379.0	7,333.0	7,333.0	46.4	12.8	-90.00	1,618.5	54.5	861.0	802.4	58.62	14.688		
10,000.0	7,379.0	7,333.0	7,333.0	48.0	12.8	-90.00	1,618.5	54.5	953.6	893.3	60.30	15.814		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3F-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 3F-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)

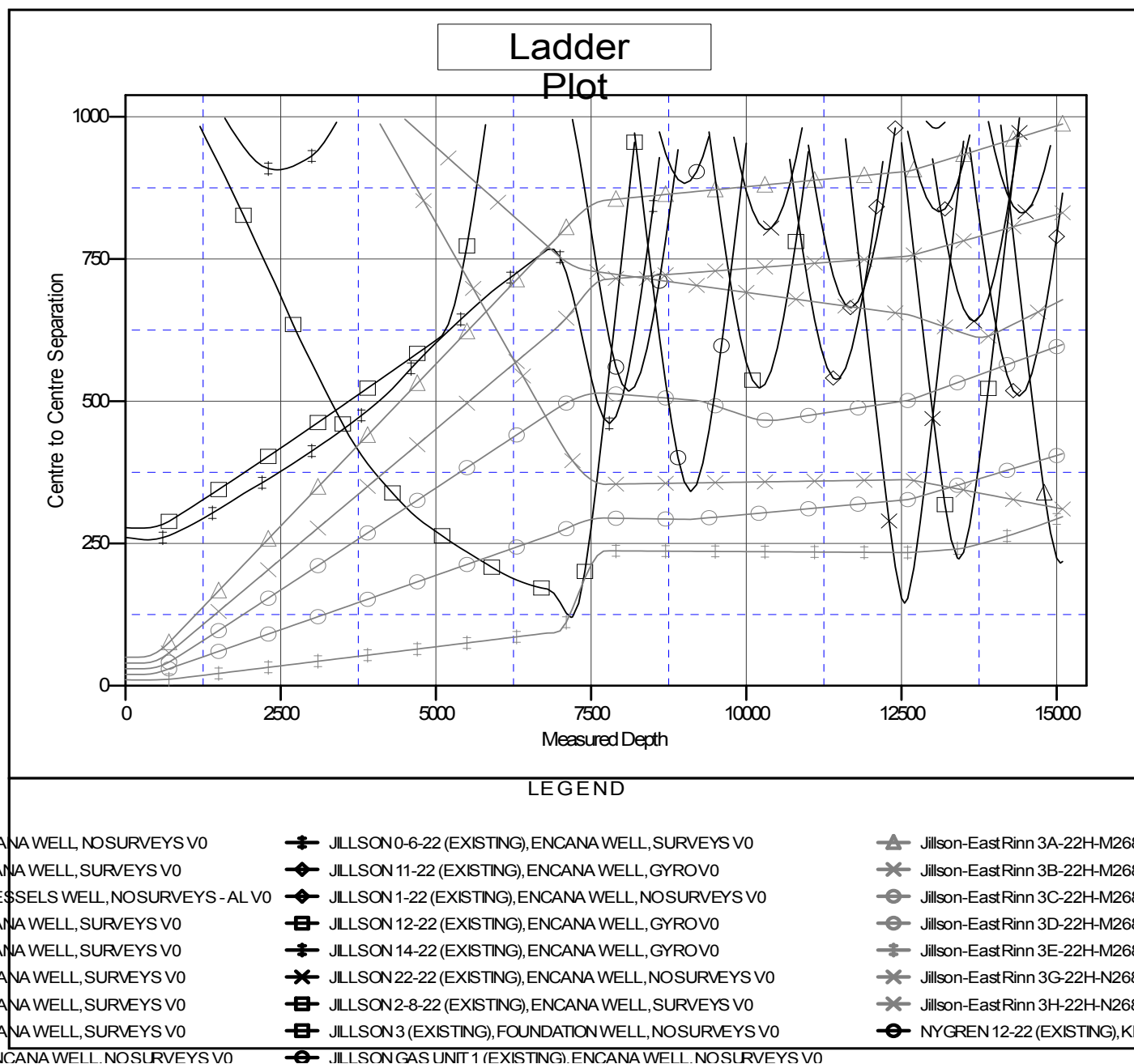
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Jillson-East Rinn 3F-22H-M268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



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