



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>North Reference:</b>	True
<b>Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

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

Site		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 3A-22H-M268					
Well Position	+N/-S	0.0 ft	Northing:	1,286,201.28 ft	Latitude:	40.117910
	+E/-W	0.0 ft	Easting:	3,140,872.11 ft	Longitude:	-104.996310
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,949.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/9/2013	8.69	66.71	52,739

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

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
637.1	4.37	224.64	636.7	-11.9	-11.7	1.00	1.00	0.00	224.64	
6,765.7	4.37	224.64	6,747.4	-344.2	-339.9	0.00	0.00	0.00	0.00	
7,696.2	90.00	359.00	7,350.0	227.3	-382.8	10.00	9.20	14.44	134.27	
15,076.2	90.00	359.00	7,350.0	7,606.2	-511.6	0.00	0.00	0.00	0.00	Jillson-East Rinn 3A-2

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<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>North Reference:</b>	True
<b>Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
300.0	1.00	224.64	300.0	-0.6	-0.6	-0.6	1.00	1.00	
324.0	1.24	224.64	324.0	-1.0	-0.9	-1.0	1.00	1.00	Fox Hills - BASE
400.0	2.00	224.64	400.0	-2.5	-2.5	-2.5	1.00	1.00	
500.0	3.00	224.64	499.9	-5.6	-5.5	-5.6	1.00	1.00	
600.0	4.00	224.64	599.7	-9.9	-9.8	-9.9	1.00	1.00	
637.1	4.37	224.64	636.7	-11.9	-11.7	-11.9	1.00	1.00	EOB; Inc=4.37°
700.0	4.37	224.64	699.4	-15.3	-15.1	-15.3	0.00	0.00	
800.0	4.37	224.64	799.1	-20.7	-20.4	-20.7	0.00	0.00	
900.0	4.37	224.64	898.8	-26.1	-25.8	-26.1	0.00	0.00	
1,000.0	4.37	224.64	998.5	-31.5	-31.1	-31.5	0.00	0.00	
1,100.0	4.37	224.64	1,098.2	-37.0	-36.5	-37.0	0.00	0.00	
1,200.0	4.37	224.64	1,197.9	-42.4	-41.9	-42.4	0.00	0.00	
1,300.0	4.37	224.64	1,297.6	-47.8	-47.2	-47.8	0.00	0.00	
1,400.0	4.37	224.64	1,397.4	-53.2	-52.6	-53.2	0.00	0.00	
1,500.0	4.37	224.64	1,497.1	-58.6	-57.9	-58.6	0.00	0.00	
1,600.0	4.37	224.64	1,596.8	-64.1	-63.3	-64.1	0.00	0.00	
1,700.0	4.37	224.64	1,696.5	-69.5	-68.6	-69.5	0.00	0.00	
1,800.0	4.37	224.64	1,796.2	-74.9	-74.0	-74.9	0.00	0.00	
1,900.0	4.37	224.64	1,895.9	-80.3	-79.3	-80.3	0.00	0.00	
2,000.0	4.37	224.64	1,995.6	-85.8	-84.7	-85.8	0.00	0.00	
2,100.0	4.37	224.64	2,095.3	-91.2	-90.1	-91.2	0.00	0.00	
2,200.0	4.37	224.64	2,195.0	-96.6	-95.4	-96.6	0.00	0.00	
2,300.0	4.37	224.64	2,294.7	-102.0	-100.8	-102.0	0.00	0.00	
2,400.0	4.37	224.64	2,394.4	-107.4	-106.1	-107.4	0.00	0.00	
2,500.0	4.37	224.64	2,494.2	-112.9	-111.5	-112.9	0.00	0.00	
2,600.0	4.37	224.64	2,593.9	-118.3	-116.8	-118.3	0.00	0.00	
2,700.0	4.37	224.64	2,693.6	-123.7	-122.2	-123.7	0.00	0.00	
2,800.0	4.37	224.64	2,793.3	-129.1	-127.5	-129.1	0.00	0.00	
2,900.0	4.37	224.64	2,893.0	-134.6	-132.9	-134.6	0.00	0.00	
3,000.0	4.37	224.64	2,992.7	-140.0	-138.3	-140.0	0.00	0.00	
3,100.0	4.37	224.64	3,092.4	-145.4	-143.6	-145.4	0.00	0.00	
3,200.0	4.37	224.64	3,192.1	-150.8	-149.0	-150.8	0.00	0.00	
3,300.0	4.37	224.64	3,291.8	-156.3	-154.3	-156.3	0.00	0.00	
3,400.0	4.37	224.64	3,391.5	-161.7	-159.7	-161.7	0.00	0.00	
3,500.0	4.37	224.64	3,491.2	-167.1	-165.0	-167.1	0.00	0.00	
3,600.0	4.37	224.64	3,591.0	-172.5	-170.4	-172.5	0.00	0.00	
3,700.0	4.37	224.64	3,690.7	-177.9	-175.7	-177.9	0.00	0.00	
3,800.0	4.37	224.64	3,790.4	-183.4	-181.1	-183.4	0.00	0.00	
3,900.0	4.37	224.64	3,890.1	-188.8	-186.5	-188.8	0.00	0.00	
4,000.0	4.37	224.64	3,989.8	-194.2	-191.8	-194.2	0.00	0.00	
4,100.0	4.37	224.64	4,089.5	-199.6	-197.2	-199.6	0.00	0.00	
4,200.0	4.37	224.64	4,189.2	-205.1	-202.5	-205.1	0.00	0.00	
4,300.0	4.37	224.64	4,288.9	-210.5	-207.9	-210.5	0.00	0.00	
4,351.2	4.37	224.64	4,340.0	-213.3	-210.6	-213.3	0.00	0.00	Sussex
4,400.0	4.37	224.64	4,388.6	-215.9	-213.2	-215.9	0.00	0.00	
4,500.0	4.37	224.64	4,488.3	-221.3	-218.6	-221.3	0.00	0.00	
4,600.0	4.37	224.64	4,588.1	-226.7	-223.9	-226.7	0.00	0.00	
4,631.0	4.37	224.64	4,619.0	-228.4	-225.6	-228.4	0.00	0.00	Sussex Marker
4,700.0	4.37	224.64	4,687.8	-232.2	-229.3	-232.2	0.00	0.00	

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<b>Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	4.37	224.64	4,787.5	-237.6	-234.7	-237.6	0.00	0.00	
4,898.8	4.37	224.64	4,886.0	-242.9	-239.9	-242.9	0.00	0.00	Shannon
4,900.0	4.37	224.64	4,887.2	-243.0	-240.0	-243.0	0.00	0.00	
5,000.0	4.37	224.64	4,986.9	-248.4	-245.4	-248.4	0.00	0.00	
5,100.0	4.37	224.64	5,086.6	-253.9	-250.7	-253.9	0.00	0.00	
5,200.0	4.37	224.64	5,186.3	-259.3	-256.1	-259.3	0.00	0.00	
5,300.0	4.37	224.64	5,286.0	-264.7	-261.4	-264.7	0.00	0.00	
5,400.0	4.37	224.64	5,385.7	-270.1	-266.8	-270.1	0.00	0.00	
5,500.0	4.37	224.64	5,485.4	-275.5	-272.1	-275.5	0.00	0.00	
5,600.0	4.37	224.64	5,585.1	-281.0	-277.5	-281.0	0.00	0.00	
5,700.0	4.37	224.64	5,684.9	-286.4	-282.9	-286.4	0.00	0.00	
5,800.0	4.37	224.64	5,784.6	-291.8	-288.2	-291.8	0.00	0.00	
5,900.0	4.37	224.64	5,884.3	-297.2	-293.6	-297.2	0.00	0.00	
6,000.0	4.37	224.64	5,984.0	-302.7	-298.9	-302.7	0.00	0.00	
6,100.0	4.37	224.64	6,083.7	-308.1	-304.3	-308.1	0.00	0.00	
6,200.0	4.37	224.64	6,183.4	-313.5	-309.6	-313.5	0.00	0.00	
6,300.0	4.37	224.64	6,283.1	-318.9	-315.0	-318.9	0.00	0.00	
6,400.0	4.37	224.64	6,382.8	-324.3	-320.3	-324.3	0.00	0.00	
6,500.0	4.37	224.64	6,482.5	-329.8	-325.7	-329.8	0.00	0.00	
6,517.5	4.37	224.64	6,500.0	-330.7	-326.6	-330.7	0.00	0.00	Teepee Buttes (*if present)
6,600.0	4.37	224.64	6,582.2	-335.2	-331.1	-335.2	0.00	0.00	
6,700.0	4.37	224.64	6,681.9	-340.6	-336.4	-340.6	0.00	0.00	
6,765.7	4.37	224.64	6,747.4	-344.2	-339.9	-344.2	0.00	0.00	Start build/turn @ 6765' MD
6,800.0	3.15	275.92	6,781.7	-345.0	-341.8	-345.0	10.00	-3.55	
6,900.0	10.84	342.41	6,881.0	-335.7	-347.4	-335.7	10.00	7.68	
7,000.0	20.61	350.64	6,977.1	-309.4	-353.1	-309.4	10.00	9.77	
7,100.0	30.52	353.68	7,067.2	-266.6	-358.8	-266.6	10.00	9.92	
7,200.0	40.48	355.33	7,148.5	-208.9	-364.2	-208.9	10.00	9.95	
7,261.4	46.60	356.04	7,193.0	-166.8	-367.4	-166.8	10.00	9.97	Sharon Springs
7,300.0	50.45	356.41	7,218.6	-137.9	-369.3	-137.9	10.00	9.97	
7,400.0	60.43	357.22	7,275.2	-55.8	-373.8	-55.8	10.00	9.98	
7,401.6	60.58	357.23	7,276.0	-54.4	-373.9	-54.4	10.00	9.98	Niobrara
7,500.0	70.41	357.89	7,316.8	35.0	-377.7	35.0	10.00	9.98	
7,588.9	79.29	358.41	7,340.0	120.7	-380.4	120.7	10.00	9.98	B Chalk
7,600.0	80.39	358.47	7,342.0	131.6	-380.7	131.6	10.00	9.98	
7,696.2	90.00	359.00	7,350.0	227.3	-382.8	227.3	10.00	9.98	LP @ 7350' TVD; 90°
7,700.0	90.00	359.00	7,350.0	231.1	-382.9	231.1	0.00	0.00	
7,800.0	90.00	359.00	7,350.0	331.1	-384.7	331.1	0.00	0.00	
7,900.0	90.00	359.00	7,350.0	431.1	-386.4	431.1	0.00	0.00	
8,000.0	90.00	359.00	7,350.0	531.1	-388.1	531.1	0.00	0.00	
8,100.0	90.00	359.00	7,350.0	631.0	-389.9	631.0	0.00	0.00	
8,200.0	90.00	359.00	7,350.0	731.0	-391.6	731.0	0.00	0.00	
8,300.0	90.00	359.00	7,350.0	831.0	-393.4	831.0	0.00	0.00	
8,400.0	90.00	359.00	7,350.0	931.0	-395.1	931.0	0.00	0.00	
8,500.0	90.00	359.00	7,350.0	1,031.0	-396.9	1,031.0	0.00	0.00	
8,600.0	90.00	359.00	7,350.0	1,131.0	-398.6	1,131.0	0.00	0.00	
8,700.0	90.00	359.00	7,350.0	1,230.9	-400.4	1,230.9	0.00	0.00	
8,800.0	90.00	359.00	7,350.0	1,330.9	-402.1	1,330.9	0.00	0.00	
8,900.0	90.00	359.00	7,350.0	1,430.9	-403.8	1,430.9	0.00	0.00	
9,000.0	90.00	359.00	7,350.0	1,530.9	-405.6	1,530.9	0.00	0.00	
9,100.0	90.00	359.00	7,350.0	1,630.9	-407.3	1,630.9	0.00	0.00	
9,200.0	90.00	359.00	7,350.0	1,730.9	-409.1	1,730.9	0.00	0.00	

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<b>Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	359.00	7,350.0	1,830.9	-410.8	1,830.9	0.00	0.00	
9,400.0	90.00	359.00	7,350.0	1,930.8	-412.6	1,930.8	0.00	0.00	
9,500.0	90.00	359.00	7,350.0	2,030.8	-414.3	2,030.8	0.00	0.00	
9,600.0	90.00	359.00	7,350.0	2,130.8	-416.1	2,130.8	0.00	0.00	
9,700.0	90.00	359.00	7,350.0	2,230.8	-417.8	2,230.8	0.00	0.00	
9,800.0	90.00	359.00	7,350.0	2,330.8	-419.6	2,330.8	0.00	0.00	
9,900.0	90.00	359.00	7,350.0	2,430.8	-421.3	2,430.8	0.00	0.00	
10,000.0	90.00	359.00	7,350.0	2,530.7	-423.0	2,530.7	0.00	0.00	
10,100.0	90.00	359.00	7,350.0	2,630.7	-424.8	2,630.7	0.00	0.00	
10,200.0	90.00	359.00	7,350.0	2,730.7	-426.5	2,730.7	0.00	0.00	
10,300.0	90.00	359.00	7,350.0	2,830.7	-428.3	2,830.7	0.00	0.00	
10,400.0	90.00	359.00	7,350.0	2,930.7	-430.0	2,930.7	0.00	0.00	
10,500.0	90.00	359.00	7,350.0	3,030.7	-431.8	3,030.7	0.00	0.00	
10,600.0	90.00	359.00	7,350.0	3,130.7	-433.5	3,130.7	0.00	0.00	
10,700.0	90.00	359.00	7,350.0	3,230.6	-435.3	3,230.6	0.00	0.00	
10,800.0	90.00	359.00	7,350.0	3,330.6	-437.0	3,330.6	0.00	0.00	
10,900.0	90.00	359.00	7,350.0	3,430.6	-438.8	3,430.6	0.00	0.00	
11,000.0	90.00	359.00	7,350.0	3,530.6	-440.5	3,530.6	0.00	0.00	
11,100.0	90.00	359.00	7,350.0	3,630.6	-442.2	3,630.6	0.00	0.00	
11,200.0	90.00	359.00	7,350.0	3,730.6	-444.0	3,730.6	0.00	0.00	
11,300.0	90.00	359.00	7,350.0	3,830.6	-445.7	3,830.6	0.00	0.00	
11,400.0	90.00	359.00	7,350.0	3,930.5	-447.5	3,930.5	0.00	0.00	
11,500.0	90.00	359.00	7,350.0	4,030.5	-449.2	4,030.5	0.00	0.00	
11,600.0	90.00	359.00	7,350.0	4,130.5	-451.0	4,130.5	0.00	0.00	
11,700.0	90.00	359.00	7,350.0	4,230.5	-452.7	4,230.5	0.00	0.00	
11,800.0	90.00	359.00	7,350.0	4,330.5	-454.5	4,330.5	0.00	0.00	
11,900.0	90.00	359.00	7,350.0	4,430.5	-456.2	4,430.5	0.00	0.00	
12,000.0	90.00	359.00	7,350.0	4,530.4	-458.0	4,530.4	0.00	0.00	
12,100.0	90.00	359.00	7,350.0	4,630.4	-459.7	4,630.4	0.00	0.00	
12,200.0	90.00	359.00	7,350.0	4,730.4	-461.4	4,730.4	0.00	0.00	
12,300.0	90.00	359.00	7,350.0	4,830.4	-463.2	4,830.4	0.00	0.00	
12,400.0	90.00	359.00	7,350.0	4,930.4	-464.9	4,930.4	0.00	0.00	
12,500.0	90.00	359.00	7,350.0	5,030.4	-466.7	5,030.4	0.00	0.00	
12,600.0	90.00	359.00	7,350.0	5,130.4	-468.4	5,130.4	0.00	0.00	
12,700.0	90.00	359.00	7,350.0	5,230.3	-470.2	5,230.3	0.00	0.00	
12,800.0	90.00	359.00	7,350.0	5,330.3	-471.9	5,330.3	0.00	0.00	
12,900.0	90.00	359.00	7,350.0	5,430.3	-473.7	5,430.3	0.00	0.00	
13,000.0	90.00	359.00	7,350.0	5,530.3	-475.4	5,530.3	0.00	0.00	
13,100.0	90.00	359.00	7,350.0	5,630.3	-477.1	5,630.3	0.00	0.00	
13,200.0	90.00	359.00	7,350.0	5,730.3	-478.9	5,730.3	0.00	0.00	
13,300.0	90.00	359.00	7,350.0	5,830.2	-480.6	5,830.2	0.00	0.00	
13,400.0	90.00	359.00	7,350.0	5,930.2	-482.4	5,930.2	0.00	0.00	
13,500.0	90.00	359.00	7,350.0	6,030.2	-484.1	6,030.2	0.00	0.00	
13,600.0	90.00	359.00	7,350.0	6,130.2	-485.9	6,130.2	0.00	0.00	
13,700.0	90.00	359.00	7,350.0	6,230.2	-487.6	6,230.2	0.00	0.00	
13,800.0	90.00	359.00	7,350.0	6,330.2	-489.4	6,330.2	0.00	0.00	
13,900.0	90.00	359.00	7,350.0	6,430.2	-491.1	6,430.2	0.00	0.00	
14,000.0	90.00	359.00	7,350.0	6,530.1	-492.9	6,530.1	0.00	0.00	
14,100.0	90.00	359.00	7,350.0	6,630.1	-494.6	6,630.1	0.00	0.00	
14,200.0	90.00	359.00	7,350.0	6,730.1	-496.3	6,730.1	0.00	0.00	
14,300.0	90.00	359.00	7,350.0	6,830.1	-498.1	6,830.1	0.00	0.00	
14,400.0	90.00	359.00	7,350.0	6,930.1	-499.8	6,930.1	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>North Reference:</b>	True
<b>Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,500.0	90.00	359.00	7,350.0	7,030.1	-501.6	7,030.1	0.00	0.00	
14,600.0	90.00	359.00	7,350.0	7,130.0	-503.3	7,130.0	0.00	0.00	
14,700.0	90.00	359.00	7,350.0	7,230.0	-505.1	7,230.0	0.00	0.00	
14,800.0	90.00	359.00	7,350.0	7,330.0	-506.8	7,330.0	0.00	0.00	
14,900.0	90.00	359.00	7,350.0	7,430.0	-508.6	7,430.0	0.00	0.00	
15,000.0	90.00	359.00	7,350.0	7,530.0	-510.3	7,530.0	0.00	0.00	
15,076.2	90.00	359.00	7,350.0	7,606.2	-511.6	7,606.2	0.00	0.00	TD at 15076.2 - Jillson-East Rinn 3A-22H-M268

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Jillson-East Rinn 3A-22H - hit/miss target - Shape - Point	0.00	0.00	7,350.0	7,606.2	-511.6	1,293,804.43	3,140,317.28	40.138790	-104.998140

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
324.0	324.0	Fox Hills - BASE				
4,351.2	4,340.0	Sussex				
4,631.0	4,619.0	Sussex Marker				
4,898.8	4,886.0	Shannon				
6,517.5	6,500.0	Teepee Buttes (*if present)				
7,261.4	7,193.0	Sharon Springs				
7,401.6	7,276.0	Niobrara				
7,588.9	7,340.0	B Chalk				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
200.0	200.0	0.0	0.0	KOP @ 200'
637.1	636.7	-11.9	-11.7	EOB; Inc=4.37°
6,765.7	6,747.4	-344.2	-339.9	Start build/turn @ 6765' MD
7,696.2	7,350.0	227.3	-382.8	LP @ 7350' TVD; 90°
15,076.2	7,350.0	7,606.2	-511.6	TD at 15076.2

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

**DJ Wattenberg**

**S22-T2N-R68W (Jillson-East Rinn)**

**Jillson-East Rinn 3A-22H-M268**

**Hz**

**Plan #1**

## **Anticollision Report**

**10 July, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	7/10/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	15,076.2	Plan #1 (Hz)	Geolink MWD	Geolink MWD



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S22-T2N-R68W (Jillson-East Rinn)						
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL	10,974.5	7,368.6	187.1	105.2	2.284	CC, ES, SF
BLISS 41-21 (EXISTING) - KPK WELL - SURVEYS						Out of range
EARL ANDERSON 1 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON 2 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON B 1 (EXISTING) - KPK WELL - NO S						Out of range
EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV	14,377.5	7,649.2	447.3	308.8	3.229	CC, ES
EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV	14,400.0	7,649.3	447.9	308.9	3.224	SF
EAST RINN 15-12 (EXISTING) AL - VESSELS WELL - N	14,392.0	7,251.0	291.2	154.6	2.132	CC
EAST RINN 15-12 (EXISTING) AL - VESSELS WELL - N	14,400.0	7,251.0	291.3	154.6	2.130	ES, SF
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N						Out of range
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N						Out of range
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
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,376.6	7,631.1	201.7	165.3	5.539	CC, ES
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,400.0	7,631.3	203.1	166.3	5.527	SF
JILLSON 11-22 (EXISTING) - ENCANA WELL - NO SUR	11,613.1	7,260.0	319.8	231.5	3.623	CC, ES, SF
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV						Out of range
JILLSON 12-22 (EXISTING) - ENCANA WELL - NO SUR	10,172.6	7,280.0	440.7	377.1	6.929	CC, ES
JILLSON 12-22 (EXISTING) - ENCANA WELL - NO SUR	10,200.0	7,280.0	441.5	377.5	6.892	SF
JILLSON 14-22 (EXISTING) - ENCANA WELL - NO SUR	200.0	176.0	262.0	261.4	427.571	CC, ES
JILLSON 14-22 (EXISTING) - ENCANA WELL - NO SUR	7,800.0	7,326.0	432.7	405.0	15.599	SF
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	200.0	172.0	269.7	269.1	445.118	CC, ES
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	4,200.0	4,161.2	496.7	481.8	33.378	SF
JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N						Out of range
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #1	200.0	200.0	8.3	7.6	13.518	CC, ES
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #1	15,076.2	15,279.7	414.0	183.1	1.793	SF
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #1	200.0	201.0	19.6	19.0	31.956	CC, ES
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #1	600.0	600.7	31.0	29.0	15.384	SF
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	200.0	201.0	27.8	27.2	45.441	CC, ES
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	600.0	600.3	39.4	37.4	19.536	SF
Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3F-22H-N268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #1						Out of range
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N	9,077.9	7,296.0	490.6	445.2	10.805	CC, ES
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N	9,100.0	7,296.0	491.1	445.4	10.732	SF

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL - NO SUR													Offset Site Error:	0.0 ft
Survey Program: 1500-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,600.0	7,350.0	7,368.6	7,266.0	58.6	19.4	-90.00	3,501.8	-627.2	418.6	343.1	75.49	5.545		
10,700.0	7,350.0	7,368.6	7,266.0	60.3	19.4	-90.00	3,501.8	-627.2	332.2	255.0	77.21	4.303		
10,800.0	7,350.0	7,368.6	7,266.0	62.0	19.4	-90.00	3,501.8	-627.2	255.8	176.9	78.92	3.242		
10,900.0	7,350.0	7,368.6	7,266.0	63.7	19.4	-90.00	3,501.8	-627.2	201.4	120.8	80.64	2.498		
10,974.5	7,350.0	7,368.6	7,266.0	64.9	19.4	-90.00	3,501.8	-627.2	187.1	105.2	81.92	2.284	CC, ES, SF	
11,000.0	7,350.0	7,368.6	7,266.0	65.4	19.4	-90.00	3,501.8	-627.2	188.9	106.5	82.36	2.293		
11,100.0	7,350.0	7,368.6	7,266.0	67.1	19.4	-90.00	3,501.8	-627.2	225.3	141.3	84.08	2.680		
11,200.0	7,350.0	7,368.6	7,266.0	68.8	19.4	-90.00	3,501.8	-627.2	293.1	207.3	85.80	3.416		
11,300.0	7,350.0	7,368.6	7,266.0	70.5	19.4	-90.00	3,501.8	-627.2	375.5	288.0	87.52	4.290		
11,400.0	7,350.0	7,368.6	7,266.0	72.2	19.4	-90.00	3,501.8	-627.2	464.9	375.6	89.25	5.209		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
14,200.0	7,350.0	7,648.8	7,267.0	120.8	37.0	90.33	6,915.4	-52.2	481.2	345.8	135.44	3.553					
14,300.0	7,350.0	7,649.1	7,267.2	122.5	37.0	90.36	6,915.4	-52.2	454.0	316.8	137.19	3.309					
14,377.5	7,350.0	7,649.2	7,267.4	123.9	37.0	90.39	6,915.4	-52.2	447.3	308.8	138.54	3.229 CC, ES					
14,400.0	7,350.0	7,649.3	7,267.5	124.2	37.0	90.39	6,915.4	-52.2	447.9	308.9	138.93	3.224 SF					
14,500.0	7,350.0	7,649.5	7,267.7	126.0	37.0	90.42	6,915.4	-52.2	463.8	323.1	140.68	3.297					
14,600.0	7,350.0	7,649.7	7,267.9	127.7	37.0	90.45	6,915.4	-52.2	499.6	357.2	142.43	3.508					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 15-12 (EXISTING) AL - VESSELS WELL - NO SURVE												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 7570-Geolink MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
14,000.0	7,350.0	7,251.0	7,251.0	117.3	12.7	90.00	6,927.1	-208.6	488.3	358.5	129.75	3.763	
14,100.0	7,350.0	7,251.0	7,251.0	119.0	12.7	90.00	6,927.1	-208.6	412.4	280.9	131.49	3.136	
14,200.0	7,350.0	7,251.0	7,251.0	120.8	12.7	90.00	6,927.1	-208.6	348.8	215.5	133.24	2.618	
14,300.0	7,350.0	7,251.0	7,251.0	122.5	12.7	90.00	6,927.1	-208.6	305.4	170.4	134.98	2.262	
14,392.0	7,350.0	7,251.0	7,251.0	124.1	12.7	90.00	6,927.1	-208.6	291.2	154.6	136.58	2.132 CC	
14,400.0	7,350.0	7,251.0	7,251.0	124.2	12.7	90.00	6,927.1	-208.6	291.3	154.6	136.72	2.130 ES, SF	
14,500.0	7,350.0	7,251.0	7,251.0	126.0	12.7	90.00	6,927.1	-208.6	310.6	172.1	138.47	2.243	
14,600.0	7,350.0	7,251.0	7,251.0	127.7	12.7	90.00	6,927.1	-208.6	357.8	217.6	140.21	2.552	
14,700.0	7,350.0	7,251.0	7,251.0	129.5	12.7	90.00	6,927.1	-208.6	423.9	281.9	141.96	2.986	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 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							
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
8,000.0	7,350.0	7,627.1	7,350.2	18.3	32.6	-88.25	904.1	-596.3	427.2	395.7	31.54	13.547	
8,100.0	7,350.0	7,628.1	7,351.2	19.4	32.6	-88.55	904.1	-596.3	342.4	309.6	32.73	10.461	
8,200.0	7,350.0	7,629.2	7,352.3	20.6	32.6	-88.86	904.1	-596.4	268.1	234.1	34.00	7.886	
8,300.0	7,350.0	7,630.3	7,353.3	21.9	32.6	-89.16	904.1	-596.4	215.8	180.4	35.34	6.105	
8,376.6	7,350.0	7,631.1	7,354.2	22.9	32.6	-89.40	904.1	-596.4	201.7	165.3	36.41	5.539 CC, ES	
8,400.0	7,350.0	7,631.3	7,354.4	23.2	32.6	-89.47	904.1	-596.4	203.1	166.3	36.74	5.527 SF	
8,500.0	7,350.0	7,632.4	7,355.5	24.6	32.6	-89.78	904.1	-596.4	236.4	198.2	38.19	6.192	
8,600.0	7,350.0	7,633.5	7,356.6	26.1	32.6	-90.09	904.1	-596.4	300.9	261.3	39.67	7.587	
8,700.0	7,350.0	7,634.6	7,357.7	27.5	32.6	-90.40	904.2	-596.4	381.1	339.9	41.18	9.254	
8,800.0	7,350.0	7,635.7	7,358.8	29.0	32.6	-90.72	904.2	-596.4	468.9	426.2	42.72	10.976	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 11-22 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 8046-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,300.0	7,350.0	7,260.0	7,260.0	70.5	12.7	90.00	4,149.1	-131.4	447.5	364.7	82.88	5.400	
11,400.0	7,350.0	7,260.0	7,260.0	72.2	12.7	90.00	4,149.1	-131.4	384.3	299.7	84.60	4.542	
11,500.0	7,350.0	7,260.0	7,260.0	74.0	12.7	90.00	4,149.1	-131.4	339.2	252.9	86.33	3.929	
11,600.0	7,350.0	7,260.0	7,260.0	75.7	12.7	90.00	4,149.1	-131.4	320.1	232.0	88.06	3.635	
11,613.1	7,350.0	7,260.0	7,260.0	75.9	12.7	90.00	4,149.1	-131.4	319.8	231.5	88.28	3.623 CC, ES, SF	
11,700.0	7,350.0	7,260.0	7,260.0	77.4	12.7	90.00	4,149.1	-131.4	331.4	241.6	89.79	3.691	
11,800.0	7,350.0	7,260.0	7,260.0	79.1	12.7	90.00	4,149.1	-131.4	370.5	278.9	91.52	4.048	
11,900.0	7,350.0	7,260.0	7,260.0	80.9	12.7	90.00	4,149.1	-131.4	429.7	336.4	93.25	4.608	

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 12-22 (EXISTING) - ENCANA WELL - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 8074-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		
10,000.0	7,350.0	7,280.0	7,280.0	48.4	12.7	90.00	2,711.0	14.5	473.2	412.6	60.68	7.800			
10,100.0	7,350.0	7,280.0	7,280.0	50.1	12.7	90.00	2,711.0	14.5	446.6	384.2	62.37	7.161			
10,172.6	7,350.0	7,280.0	7,280.0	51.3	12.7	90.00	2,711.0	14.5	440.7	377.1	63.60	6.929 CC, ES			
10,200.0	7,350.0	7,280.0	7,280.0	51.8	12.7	90.00	2,711.0	14.5	441.5	377.5	64.06	6.892 SF			
10,300.0	7,350.0	7,280.0	7,280.0	53.5	12.7	90.00	2,711.0	14.5	458.7	393.0	65.76	6.975			
10,400.0	7,350.0	7,280.0	7,280.0	55.2	12.7	90.00	2,711.0	14.5	495.9	428.4	67.47	7.350			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	9.21	258.6	42.0	263.1					
100.0	100.0	76.0	76.0	0.1	0.1	9.21	258.6	42.0	262.0	261.8	0.26		993.461	
200.0	200.0	176.0	176.0	0.3	0.3	9.21	258.6	42.0	262.0	261.4	0.61		427.571 CC, ES	
300.0	300.0	276.0	276.0	0.5	0.5	144.68	258.6	42.0	262.7	261.8	0.96		273.072	
400.0	400.0	376.0	376.0	0.7	0.7	144.99	258.6	42.0	264.9	263.6	1.31		201.779	
500.0	499.9	475.9	475.9	0.8	0.8	145.50	258.6	42.0	268.5	266.8	1.67		161.192	
600.0	599.7	575.7	575.7	1.0	1.0	146.20	258.6	42.0	273.5	271.5	2.02		135.327	
700.0	699.4	675.4	675.4	1.3	1.2	147.04	258.6	42.0	279.8	277.4	2.38		117.613	
800.0	799.1	775.1	775.1	1.5	1.4	147.87	258.6	42.0	286.2	283.5	2.74		104.567	
900.0	898.8	874.8	874.8	1.7	1.5	148.66	258.6	42.0	292.7	289.6	3.10		94.567	
1,000.0	998.5	974.5	974.5	1.9	1.7	149.42	258.6	42.0	299.2	295.8	3.45		86.667	
1,100.0	1,098.2	1,074.2	1,074.2	2.1	1.9	150.15	258.6	42.0	305.8	302.0	3.81		80.274	
1,200.0	1,197.9	1,173.9	1,173.9	2.3	2.0	150.84	258.6	42.0	312.5	308.3	4.17		74.998	
1,300.0	1,297.6	1,273.6	1,273.6	2.5	2.2	151.51	258.6	42.0	319.1	314.6	4.52		70.573	
1,400.0	1,397.4	1,373.4	1,373.4	2.8	2.4	152.15	258.6	42.0	325.9	321.0	4.88		66.809	
1,500.0	1,497.1	1,473.1	1,473.1	3.0	2.6	152.76	258.6	42.0	332.6	327.4	5.23		63.571	
1,600.0	1,596.8	1,572.8	1,572.8	3.2	2.7	153.35	258.6	42.0	339.4	333.8	5.59		60.756	
1,700.0	1,696.5	1,672.5	1,672.5	3.4	2.9	153.91	258.6	42.0	346.3	340.3	5.94		58.288	
1,800.0	1,796.2	1,772.2	1,772.2	3.6	3.1	154.46	258.6	42.0	353.1	346.8	6.29		56.106	
1,900.0	1,895.9	1,871.9	1,871.9	3.9	3.3	154.98	258.6	42.0	360.0	353.4	6.65		54.164	
2,000.0	1,995.6	1,971.6	1,971.6	4.1	3.4	155.48	258.6	42.0	366.9	359.9	7.00		52.425	
2,100.0	2,095.3	2,071.3	2,071.3	4.3	3.6	155.97	258.6	42.0	373.9	366.5	7.35		50.859	
2,200.0	2,195.0	2,171.0	2,171.0	4.5	3.8	156.43	258.6	42.0	380.9	373.2	7.70		49.442	
2,300.0	2,294.7	2,270.7	2,270.7	4.7	4.0	156.88	258.6	42.0	387.9	379.8	8.05		48.153	
2,400.0	2,394.4	2,370.4	2,370.4	4.9	4.1	157.32	258.6	42.0	394.9	386.5	8.41		46.977	
2,500.0	2,494.2	2,470.2	2,470.2	5.2	4.3	157.74	258.6	42.0	401.9	393.2	8.76		45.899	
2,600.0	2,593.9	2,569.9	2,569.9	5.4	4.5	158.14	258.6	42.0	409.0	399.9	9.11		44.908	
2,700.0	2,693.6	2,669.6	2,669.6	5.6	4.7	158.53	258.6	42.0	416.1	406.6	9.46		43.993	
2,800.0	2,793.3	2,769.3	2,769.3	5.8	4.8	158.91	258.6	42.0	423.2	413.4	9.81		43.146	
2,900.0	2,893.0	2,869.0	2,869.0	6.0	5.0	159.27	258.6	42.0	430.3	420.2	10.16		42.361	
3,000.0	2,992.7	2,968.7	2,968.7	6.3	5.2	159.63	258.6	42.0	437.5	427.0	10.51		41.630	
3,100.0	3,092.4	3,068.4	3,068.4	6.5	5.4	159.97	258.6	42.0	444.6	433.8	10.86		40.948	
3,200.0	3,192.1	3,168.1	3,168.1	6.7	5.5	160.30	258.6	42.0	451.8	440.6	11.21		40.311	
3,300.0	3,291.8	3,267.8	3,267.8	6.9	5.7	160.62	258.6	42.0	459.0	447.4	11.56		39.714	
3,400.0	3,391.5	3,367.5	3,367.5	7.1	5.9	160.93	258.6	42.0	466.2	454.3	11.91		39.153	
3,500.0	3,491.2	3,467.2	3,467.2	7.4	6.1	161.23	258.6	42.0	473.4	461.1	12.26		38.626	
3,600.0	3,591.0	3,567.0	3,567.0	7.6	6.2	161.53	258.6	42.0	480.6	468.0	12.60		38.130	
3,700.0	3,690.7	3,666.7	3,666.7	7.8	6.4	161.81	258.6	42.0	487.8	474.9	12.95		37.662	
3,800.0	3,790.4	3,766.4	3,766.4	8.0	6.6	162.08	258.6	42.0	495.1	481.8	13.30		37.219	
7,500.0	7,316.8	7,292.8	7,292.8	14.7	12.7	80.74	258.6	42.0	475.5	449.9	25.60		18.572	
7,600.0	7,342.0	7,318.0	7,318.0	15.1	12.8	87.40	258.6	42.0	441.4	415.1	26.27		16.802	
7,700.0	7,350.0	7,326.0	7,326.0	15.6	12.8	90.00	258.6	42.0	425.7	398.8	26.93		15.811	
7,720.1	7,350.0	7,326.0	7,326.0	15.8	12.8	90.00	258.6	42.0	425.3	398.2	27.09		15.698	
7,800.0	7,350.0	7,326.0	7,326.0	16.4	12.8	90.00	258.6	42.0	432.7	405.0	27.74		15.599 SF	
7,900.0	7,350.0	7,326.0	7,326.0	17.3	12.8	90.00	258.6	42.0	461.8	433.0	28.71		16.086	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design 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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-9.55	265.9	-44.7	271.1					
100.0	100.0	72.0	72.0	0.1	0.1	-9.55	265.9	-44.7	269.7	269.4	0.26	1,050.249		
200.0	200.0	172.0	172.0	0.3	0.3	-9.55	265.9	-44.7	269.7	269.1	0.61	445.118 CC, ES		
300.0	300.0	272.0	272.0	0.5	0.5	125.95	265.9	-44.7	270.2	269.2	0.96	282.763		
400.0	400.0	372.0	372.0	0.7	0.6	126.38	265.9	-44.7	271.7	270.4	1.31	207.760		
500.0	499.9	471.9	471.9	0.8	0.8	127.10	265.9	-44.7	274.3	272.7	1.67	164.754		
600.0	599.7	571.7	571.7	1.0	1.0	128.07	265.9	-44.7	278.1	276.0	2.03	137.049		
700.0	699.4	671.4	671.4	1.3	1.2	129.25	265.9	-44.7	282.8	280.4	2.40	117.974		
800.0	799.1	771.1	771.1	1.5	1.3	130.42	265.9	-44.7	287.6	284.9	2.77	104.012		
900.0	898.8	870.8	870.8	1.7	1.5	131.56	265.9	-44.7	292.7	289.5	3.13	93.375		
1,000.0	998.5	970.5	970.5	1.9	1.7	132.65	265.9	-44.7	297.8	294.3	3.50	85.023		
1,100.0	1,098.2	1,070.2	1,070.2	2.1	1.9	133.71	265.9	-44.7	303.0	299.1	3.87	78.304		
1,200.0	1,197.9	1,169.9	1,169.9	2.3	2.0	134.74	265.9	-44.7	308.3	304.1	4.24	72.789		
1,300.0	1,297.6	1,269.6	1,269.6	2.5	2.2	135.72	265.9	-44.7	313.7	309.1	4.60	68.187		
1,400.0	1,397.4	1,369.4	1,369.4	2.8	2.4	136.68	265.9	-44.7	319.2	314.3	4.97	64.294		
1,500.0	1,497.1	1,469.1	1,469.1	3.0	2.6	137.60	265.9	-44.7	324.8	319.5	5.33	60.962		
1,600.0	1,596.8	1,568.8	1,568.8	3.2	2.7	138.49	265.9	-44.7	330.5	324.8	5.69	58.079		
1,700.0	1,696.5	1,668.5	1,668.5	3.4	2.9	139.35	265.9	-44.7	336.3	330.2	6.05	55.562		
1,800.0	1,796.2	1,768.2	1,768.2	3.6	3.1	140.18	265.9	-44.7	342.1	335.7	6.41	53.349		
1,900.0	1,895.9	1,867.9	1,867.9	3.9	3.3	140.98	265.9	-44.7	348.0	341.2	6.77	51.388		
2,000.0	1,995.6	1,967.6	1,967.6	4.1	3.4	141.76	265.9	-44.7	353.9	346.8	7.13	49.640		
2,100.0	2,095.3	2,067.3	2,067.3	4.3	3.6	142.51	265.9	-44.7	360.0	352.5	7.49	48.072		
2,200.0	2,195.0	2,167.0	2,167.0	4.5	3.8	143.23	265.9	-44.7	366.1	358.2	7.85	46.660		
2,300.0	2,294.7	2,266.7	2,266.7	4.7	4.0	143.93	265.9	-44.7	372.2	364.0	8.20	45.382		
2,400.0	2,394.4	2,366.4	2,366.4	4.9	4.1	144.61	265.9	-44.7	378.4	369.8	8.56	44.220		
2,500.0	2,494.2	2,466.2	2,466.2	5.2	4.3	145.27	265.9	-44.7	384.6	375.7	8.91	43.159		
2,600.0	2,593.9	2,565.9	2,565.9	5.4	4.5	145.90	265.9	-44.7	390.9	381.7	9.27	42.188		
2,700.0	2,693.6	2,665.6	2,665.6	5.6	4.7	146.52	265.9	-44.7	397.3	387.6	9.62	41.295		
2,800.0	2,793.3	2,765.3	2,765.3	5.8	4.8	147.12	265.9	-44.7	403.6	393.7	9.97	40.472		
2,900.0	2,893.0	2,865.0	2,865.0	6.0	5.0	147.69	265.9	-44.7	410.1	399.7	10.33	39.712		
3,000.0	2,992.7	2,964.7	2,964.7	6.3	5.2	148.25	265.9	-44.7	416.5	405.9	10.68	39.007		
3,100.0	3,092.4	3,064.4	3,064.4	6.5	5.3	148.80	265.9	-44.7	423.0	412.0	11.03	38.352		
3,200.0	3,192.1	3,164.1	3,164.1	6.7	5.5	149.32	265.9	-44.7	429.6	418.2	11.38	37.743		
3,300.0	3,291.8	3,263.8	3,263.8	6.9	5.7	149.83	265.9	-44.7	436.2	424.4	11.73	37.173		
3,400.0	3,391.5	3,363.5	3,363.5	7.1	5.9	150.33	265.9	-44.7	442.8	430.7	12.08	36.641		
3,500.0	3,491.2	3,463.2	3,463.2	7.4	6.0	150.81	265.9	-44.7	449.4	437.0	12.43	36.142		
3,600.0	3,591.0	3,563.0	3,563.0	7.6	6.2	151.28	265.9	-44.7	456.1	443.3	12.78	35.674		
3,700.0	3,690.7	3,662.7	3,662.7	7.8	6.4	151.73	265.9	-44.7	462.8	449.7	13.13	35.234		
3,800.0	3,790.4	3,762.4	3,762.4	8.0	6.6	152.17	265.9	-44.7	469.5	456.0	13.48	34.820		
3,900.0	3,890.1	3,862.1	3,862.1	8.2	6.7	152.60	265.9	-44.7	476.3	462.4	13.83	34.428		
4,000.0	3,989.8	3,961.8	3,961.8	8.5	6.9	153.01	265.9	-44.7	483.1	468.9	14.18	34.059		
4,100.0	4,089.5	4,061.5	4,061.5	8.7	7.1	153.42	265.9	-44.7	489.9	475.3	14.53	33.709		
4,200.0	4,189.2	4,161.2	4,161.2	8.9	7.3	153.81	265.9	-44.7	496.7	481.8	14.88	33.378 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	8.3	8.3					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	8.3	8.3	8.0	0.26	31.542		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	8.3	8.3	7.6	0.61	13.518	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	-138.59	0.0	8.3	8.9	7.9	0.96	9.260		
400.0	400.0	400.1	400.1	0.7	0.7	-143.88	-0.8	7.9	10.5	9.2	1.31	7.990		
500.0	499.9	500.2	500.1	0.8	0.8	-145.72	-3.2	6.8	12.5	10.9	1.67	7.521		
600.0	599.7	600.3	600.1	1.0	1.0	-145.35	-7.1	4.9	15.0	13.0	2.03	7.392		
700.0	699.4	700.3	700.0	1.3	1.2	-144.36	-12.2	2.6	17.9	15.5	2.41	7.451		
800.0	799.1	800.2	799.8	1.5	1.4	-143.71	-17.4	0.2	20.9	18.1	2.78	7.508		
900.0	898.8	900.2	899.6	1.7	1.6	-143.23	-22.6	-2.2	23.9	20.7	3.16	7.546		
1,000.0	998.5	1,000.1	999.4	1.9	1.8	-142.85	-27.7	-4.6	26.8	23.3	3.54	7.571		
1,100.0	1,098.2	1,100.1	1,099.1	2.1	2.0	-142.55	-32.9	-7.0	29.8	25.9	3.93	7.590		
1,200.0	1,197.9	1,200.0	1,198.9	2.3	2.2	-142.30	-38.0	-9.4	32.8	28.5	4.31	7.604		
1,300.0	1,297.6	1,300.0	1,298.7	2.5	2.4	-142.10	-43.2	-11.8	35.8	31.1	4.70	7.614		
1,400.0	1,397.4	1,400.0	1,398.5	2.8	2.6	-141.92	-48.3	-14.2	38.7	33.6	5.08	7.622		
1,500.0	1,497.1	1,499.9	1,498.3	3.0	2.8	-141.77	-53.5	-16.6	41.7	36.2	5.47	7.628		
1,600.0	1,596.8	1,599.9	1,598.1	3.2	3.0	-141.64	-58.6	-19.0	44.7	38.8	5.85	7.633		
1,700.0	1,696.5	1,699.8	1,697.9	3.4	3.2	-141.53	-63.8	-21.3	47.7	41.4	6.24	7.636		
1,800.0	1,796.2	1,799.8	1,797.7	3.6	3.4	-141.43	-68.9	-23.7	50.6	44.0	6.63	7.640		
1,900.0	1,895.9	1,899.7	1,897.5	3.9	3.6	-141.34	-74.1	-26.1	53.6	46.6	7.01	7.642		
2,000.0	1,995.6	1,999.7	1,997.3	4.1	3.8	-141.26	-79.2	-28.5	56.6	49.2	7.40	7.644		
2,100.0	2,095.3	2,099.6	2,097.1	4.3	4.0	-141.19	-84.4	-30.9	59.6	51.8	7.79	7.646		
2,200.0	2,195.0	2,199.6	2,196.9	4.5	4.2	-141.13	-89.5	-33.3	62.5	54.4	8.18	7.648		
2,300.0	2,294.7	2,299.6	2,296.7	4.7	4.4	-141.07	-94.7	-35.7	65.5	56.9	8.56	7.649		
2,400.0	2,394.4	2,399.5	2,396.5	4.9	4.6	-141.01	-99.9	-38.1	68.5	59.5	8.95	7.650		
2,500.0	2,494.2	2,499.5	2,496.3	5.2	4.8	-140.96	-105.0	-40.5	71.5	62.1	9.34	7.651		
2,600.0	2,593.9	2,599.4	2,596.1	5.4	5.0	-140.92	-110.2	-42.9	74.4	64.7	9.73	7.652		
2,700.0	2,693.6	2,699.4	2,695.9	5.6	5.2	-140.88	-115.3	-45.3	77.4	67.3	10.12	7.652		
2,800.0	2,793.3	2,799.3	2,795.6	5.8	5.4	-140.84	-120.5	-47.7	80.4	69.9	10.50	7.653		
2,900.0	2,893.0	2,899.3	2,895.4	6.0	5.6	-140.80	-125.6	-50.1	83.4	72.5	10.89	7.653		
3,000.0	2,992.7	2,999.2	2,995.2	6.3	5.8	-140.77	-130.8	-52.4	86.3	75.1	11.28	7.654		
3,100.0	3,092.4	3,099.2	3,095.0	6.5	6.0	-140.74	-135.9	-54.8	89.3	77.6	11.67	7.654		
3,200.0	3,192.1	3,199.2	3,194.8	6.7	6.2	-140.71	-141.1	-57.2	92.3	80.2	12.06	7.654		
3,300.0	3,291.8	3,299.1	3,294.6	6.9	6.4	-140.68	-146.2	-59.6	95.3	82.8	12.45	7.655		
3,400.0	3,391.5	3,399.1	3,394.4	7.1	6.6	-140.65	-151.4	-62.0	98.2	85.4	12.83	7.655		
3,500.0	3,491.2	3,499.0	3,494.2	7.4	6.8	-140.63	-156.5	-64.4	101.2	88.0	13.22	7.655		
3,600.0	3,591.0	3,599.0	3,594.0	7.6	7.0	-140.61	-161.7	-66.8	104.2	90.6	13.61	7.655		
3,700.0	3,690.7	3,698.9	3,693.8	7.8	7.2	-140.59	-166.9	-69.2	107.2	93.2	14.00	7.656		
3,800.0	3,790.4	3,798.9	3,793.6	8.0	7.4	-140.57	-172.0	-71.6	110.2	95.8	14.39	7.656		
3,900.0	3,890.1	3,898.9	3,893.4	8.2	7.6	-140.55	-177.2	-74.0	113.1	98.4	14.78	7.656		
4,000.0	3,989.8	3,998.8	3,993.2	8.5	7.8	-140.53	-182.3	-76.4	116.1	100.9	15.17	7.656		
4,100.0	4,089.5	4,098.8	4,093.0	8.7	8.0	-140.51	-187.5	-78.8	119.1	103.5	15.55	7.656		
4,200.0	4,189.2	4,198.7	4,192.8	8.9	8.2	-140.49	-192.6	-81.2	122.1	106.1	15.94	7.656		
4,300.0	4,288.9	4,298.7	4,292.6	9.1	8.4	-140.48	-197.8	-83.5	125.0	108.7	16.33	7.656		
4,400.0	4,388.6	4,398.6	4,392.4	9.3	8.6	-140.46	-202.9	-85.9	128.0	111.3	16.72	7.656		
4,500.0	4,488.3	4,498.6	4,492.1	9.6	8.8	-140.45	-208.1	-88.3	131.0	113.9	17.11	7.656		
4,600.0	4,588.1	4,598.5	4,591.9	9.8	9.0	-140.43	-213.2	-90.7	134.0	116.5	17.50	7.656		
4,700.0	4,687.8	4,698.5	4,691.7	10.0	9.2	-140.42	-218.4	-93.1	136.9	119.1	17.89	7.656		
4,800.0	4,787.5	4,798.5	4,791.5	10.2	9.4	-140.41	-223.5	-95.5	139.9	121.6	18.27	7.656		
4,900.0	4,887.2	4,898.4	4,891.3	10.4	9.6	-140.40	-228.7	-97.9	142.9	124.2	18.66	7.656		
5,000.0	4,986.9	4,998.4	4,991.1	10.6	9.8	-140.39	-233.8	-100.3	145.9	126.8	19.05	7.656		
5,100.0	5,086.6	5,098.3	5,090.9	10.9	10.0	-140.37	-239.0	-102.7	148.8	129.4	19.44	7.656		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,186.3	5,198.3	5,190.7	11.1	10.2	-140.36	-244.2	-105.1	151.8	132.0	19.83	7.656		
5,300.0	5,286.0	5,298.2	5,290.5	11.3	10.4	-140.35	-249.3	-107.5	154.8	134.6	20.22	7.656		
5,400.0	5,385.7	5,398.2	5,390.3	11.5	10.6	-140.34	-254.5	-109.9	157.8	137.2	20.61	7.656		
5,500.0	5,485.4	5,498.1	5,490.1	11.7	10.8	-140.33	-259.6	-112.2	160.8	139.8	21.00	7.656		
5,600.0	5,585.1	5,598.1	5,589.9	12.0	11.0	-140.32	-264.8	-114.6	163.7	142.3	21.38	7.656		
5,700.0	5,684.9	5,698.1	5,689.7	12.2	11.2	-140.32	-269.9	-117.0	166.7	144.9	21.77	7.656		
5,800.0	5,784.6	5,798.0	5,789.5	12.4	11.4	-140.31	-275.1	-119.4	169.7	147.5	22.16	7.656		
5,900.0	5,884.3	5,898.0	5,889.3	12.6	11.6	-140.30	-280.2	-121.8	172.7	150.1	22.55	7.656		
6,000.0	5,984.0	5,997.9	5,989.1	12.8	11.8	-140.29	-285.4	-124.2	175.6	152.7	22.94	7.656		
6,100.0	6,083.7	6,097.9	6,088.9	13.1	12.0	-140.28	-290.5	-126.6	178.6	155.3	23.33	7.656		
6,200.0	6,183.4	6,197.8	6,188.6	13.3	12.2	-140.28	-295.7	-129.0	181.6	157.9	23.72	7.656		
6,300.0	6,283.1	6,297.8	6,288.4	13.5	12.4	-140.27	-300.8	-131.4	184.6	160.5	24.11	7.656		
6,400.0	6,382.8	6,397.7	6,388.2	13.7	12.6	-140.26	-306.0	-133.8	187.5	163.0	24.50	7.656		
6,500.0	6,482.5	6,497.7	6,488.0	13.9	12.8	-140.26	-311.1	-136.2	190.5	165.6	24.88	7.656		
6,600.0	6,582.2	6,597.7	6,587.8	14.2	13.0	-140.25	-316.3	-138.6	193.5	168.2	25.27	7.656		
6,700.0	6,681.9	6,697.6	6,687.6	14.4	13.2	-140.24	-321.5	-141.0	196.5	170.8	25.66	7.656		
6,800.0	6,781.7	6,797.5	6,787.4	14.6	13.4	168.78	-326.6	-143.3	199.4	173.3	26.05	7.653		
6,900.0	6,881.0	6,896.3	6,886.0	14.7	13.6	106.42	-331.7	-145.7	201.8	175.2	26.57	7.594		
7,000.0	6,977.1	6,991.6	6,981.2	14.7	13.8	106.25	-336.5	-148.0	206.9	179.8	27.10	7.635		
7,100.0	7,067.2	7,092.3	7,081.5	14.6	13.9	112.29	-330.8	-150.4	218.5	191.3	27.15	8.049		
7,200.0	7,148.5	7,201.1	7,187.0	14.5	13.9	118.70	-305.1	-152.9	235.3	208.8	26.51	8.877		
7,300.0	7,218.6	7,319.5	7,294.1	14.4	13.7	124.42	-255.0	-155.5	255.2	229.9	25.34	10.070		
7,400.0	7,275.2	7,449.1	7,396.7	14.5	13.6	129.06	-176.4	-158.0	275.5	251.5	24.00	11.480		
7,500.0	7,316.8	7,590.5	7,485.4	14.7	13.6	132.47	-66.8	-160.1	293.5	270.5	22.96	12.779		
7,600.0	7,342.0	7,742.5	7,547.8	15.1	13.9	134.54	71.3	-161.6	306.6	283.9	22.77	13.464		
7,700.0	7,350.0	7,901.5	7,571.9	15.6	14.7	135.17	228.0	-162.2	313.0	289.3	23.78	13.162		
7,800.0	7,350.0	8,004.6	7,572.0	16.4	15.5	134.94	331.1	-162.2	314.3	289.3	25.01	12.566		
7,900.0	7,350.0	8,104.6	7,572.0	17.3	16.5	134.72	431.1	-162.2	315.5	289.1	26.42	11.945		
8,000.0	7,350.0	8,204.6	7,572.0	18.3	17.5	134.49	531.1	-162.2	316.8	288.8	27.99	11.318		
8,100.0	7,350.0	8,304.5	7,572.0	19.4	18.7	134.27	631.0	-162.2	318.0	288.3	29.71	10.704		
8,200.0	7,350.0	8,404.5	7,572.0	20.6	19.9	134.06	731.0	-162.2	319.3	287.7	31.56	10.116		
8,300.0	7,350.0	8,504.5	7,572.0	21.9	21.2	133.84	831.0	-162.2	320.5	287.0	33.52	9.562		
8,400.0	7,350.0	8,604.5	7,572.0	23.2	22.6	133.62	931.0	-162.2	321.8	286.2	35.58	9.046		
8,500.0	7,350.0	8,704.5	7,572.0	24.6	24.0	133.41	1,031.0	-162.2	323.1	285.4	37.71	8.566		
8,600.0	7,350.0	8,804.5	7,572.0	26.1	25.5	133.20	1,131.0	-162.2	324.3	284.4	39.93	8.123		
8,700.0	7,350.0	8,904.4	7,572.0	27.5	27.0	132.99	1,230.9	-162.2	325.6	283.4	42.20	7.716		
8,800.0	7,350.0	9,004.4	7,572.0	29.0	28.5	132.78	1,330.9	-162.2	326.9	282.4	44.54	7.340		
8,900.0	7,350.0	9,104.4	7,572.0	30.6	30.1	132.57	1,430.9	-162.2	328.2	281.3	46.92	6.994		
9,000.0	7,350.0	9,204.4	7,572.0	32.1	31.6	132.37	1,530.9	-162.2	329.5	280.1	49.35	6.676		
9,100.0	7,350.0	9,304.4	7,572.0	33.7	33.2	132.16	1,630.9	-162.2	330.8	278.9	51.82	6.382		
9,200.0	7,350.0	9,404.4	7,572.0	35.3	34.8	131.96	1,730.9	-162.2	332.1	277.7	54.34	6.111		
9,300.0	7,350.0	9,504.4	7,572.0	36.9	36.5	131.76	1,830.9	-162.2	333.4	276.5	56.88	5.860		
9,400.0	7,350.0	9,604.3	7,572.0	38.5	38.1	131.56	1,930.8	-162.2	334.7	275.2	59.46	5.628		
9,500.0	7,350.0	9,704.3	7,572.0	40.1	39.7	131.36	2,030.8	-162.2	336.0	273.9	62.07	5.413		
9,600.0	7,350.0	9,804.3	7,572.0	41.8	41.4	131.17	2,130.8	-162.2	337.3	272.6	64.71	5.212		
9,700.0	7,350.0	9,904.3	7,572.0	43.4	43.1	130.97	2,230.8	-162.2	338.6	271.2	67.37	5.026		
9,800.0	7,350.0	10,004.3	7,572.0	45.1	44.7	130.78	2,330.8	-162.2	339.9	269.9	70.06	4.852		
9,900.0	7,350.0	10,104.3	7,572.0	46.8	46.4	130.59	2,430.8	-162.2	341.2	268.5	72.77	4.689		
10,000.0	7,350.0	10,204.3	7,572.0	48.4	48.1	130.40	2,530.7	-162.2	342.6	267.1	75.50	4.537		
10,100.0	7,350.0	10,304.2	7,572.0	50.1	49.8	130.21	2,630.7	-162.2	343.9	265.6	78.25	4.395		
10,200.0	7,350.0	10,404.2	7,572.0	51.8	51.4	130.02	2,730.7	-162.2	345.2	264.2	81.03	4.261		
10,300.0	7,350.0	10,504.2	7,572.0	53.5	53.1	129.84	2,830.7	-162.2	346.6	262.7	83.82	4.135		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.0	7,350.0	10,604.2	7,572.0	55.2	54.8	129.65	2,930.7	-162.2	347.9	261.3	86.63	4.016	
10,500.0	7,350.0	10,704.2	7,572.0	56.9	56.5	129.47	3,030.7	-162.2	349.3	259.8	89.46	3.904	
10,600.0	7,350.0	10,804.2	7,572.0	58.6	58.2	129.29	3,130.7	-162.2	350.6	258.3	92.31	3.798	
10,700.0	7,350.0	10,904.1	7,572.0	60.3	60.0	129.11	3,230.6	-162.2	352.0	256.8	95.17	3.698	
10,800.0	7,350.0	11,004.1	7,572.0	62.0	61.7	128.93	3,330.6	-162.2	353.3	255.3	98.04	3.604	
10,900.0	7,350.0	11,104.1	7,572.0	63.7	63.4	128.76	3,430.6	-162.2	354.7	253.7	100.94	3.514	
11,000.0	7,350.0	11,204.1	7,572.0	65.4	65.1	128.58	3,530.6	-162.2	356.0	252.2	103.84	3.429	
11,100.0	7,350.0	11,304.1	7,572.0	67.1	66.8	128.40	3,630.6	-162.2	357.4	250.6	106.76	3.348	
11,200.0	7,350.0	11,404.1	7,572.0	68.8	68.5	128.23	3,730.6	-162.2	358.8	249.1	109.70	3.271	
11,300.0	7,350.0	11,504.1	7,572.0	70.5	70.2	128.06	3,830.6	-162.2	360.1	247.5	112.64	3.197	
11,400.0	7,350.0	11,604.0	7,572.0	72.2	72.0	127.89	3,930.5	-162.2	361.5	245.9	115.60	3.127	
11,500.0	7,350.0	11,704.0	7,572.0	74.0	73.7	127.72	4,030.5	-162.2	362.9	244.3	118.57	3.060	
11,600.0	7,350.0	11,804.0	7,572.0	75.7	75.4	127.55	4,130.5	-162.2	364.3	242.7	121.56	2.997	
11,700.0	7,350.0	11,904.0	7,572.0	77.4	77.1	127.39	4,230.5	-162.2	365.7	241.1	124.55	2.936	
11,800.0	7,350.0	12,004.0	7,572.0	79.1	78.9	127.22	4,330.5	-162.2	367.0	239.5	127.56	2.877	
11,900.0	7,350.0	12,104.0	7,572.0	80.9	80.6	127.06	4,430.5	-162.2	368.4	237.9	130.58	2.822	
12,000.0	7,350.0	12,203.9	7,572.0	82.6	82.3	126.89	4,530.4	-162.2	369.8	236.2	133.61	2.768	
12,100.0	7,350.0	12,303.9	7,572.0	84.3	84.1	126.73	4,630.4	-162.2	371.2	234.6	136.65	2.717	
12,200.0	7,350.0	12,403.9	7,572.0	86.0	85.8	126.57	4,730.4	-162.2	372.6	232.9	139.70	2.667	
12,300.0	7,350.0	12,503.9	7,572.0	87.8	87.5	126.41	4,830.4	-162.2	374.0	231.3	142.76	2.620	
12,400.0	7,350.0	12,603.9	7,572.0	89.5	89.2	126.25	4,930.4	-162.2	375.4	229.6	145.83	2.575	
12,500.0	7,350.0	12,703.9	7,572.0	91.2	91.0	126.10	5,030.4	-162.2	376.9	227.9	148.91	2.531	
12,600.0	7,350.0	12,803.9	7,572.0	93.0	92.7	125.94	5,130.4	-162.2	378.3	226.3	152.00	2.489	
12,700.0	7,350.0	12,903.8	7,572.0	94.7	94.5	125.79	5,230.3	-162.2	379.7	224.6	155.10	2.448	
12,800.0	7,350.0	13,003.8	7,572.0	96.4	96.2	125.63	5,330.3	-162.2	381.1	222.9	158.20	2.409	
12,900.0	7,350.0	13,103.8	7,572.0	98.2	97.9	125.48	5,430.3	-162.2	382.5	221.2	161.32	2.371	
13,000.0	7,350.0	13,203.8	7,572.0	99.9	99.7	125.33	5,530.3	-162.2	383.9	219.5	164.44	2.335	
13,100.0	7,350.0	13,303.8	7,572.0	101.6	101.4	125.18	5,630.3	-162.2	385.4	217.8	167.57	2.300	
13,200.0	7,350.0	13,403.8	7,572.0	103.4	103.1	125.03	5,730.3	-162.2	386.8	216.1	170.71	2.266	
13,300.0	7,350.0	13,503.7	7,572.0	105.1	104.9	124.88	5,830.2	-162.2	388.2	214.4	173.86	2.233	
13,400.0	7,350.0	13,603.7	7,572.0	106.8	106.6	124.74	5,930.2	-162.2	389.7	212.6	177.02	2.201	
13,500.0	7,350.0	13,703.7	7,572.0	108.6	108.4	124.59	6,030.2	-162.2	391.1	210.9	180.18	2.171	
13,600.0	7,350.0	13,803.7	7,572.0	110.3	110.1	124.45	6,130.2	-162.2	392.5	209.2	183.35	2.141	
13,700.0	7,350.0	13,903.7	7,572.0	112.1	111.8	124.30	6,230.2	-162.2	394.0	207.4	186.53	2.112	
13,800.0	7,350.0	14,003.7	7,572.0	113.8	113.6	124.16	6,330.2	-162.2	395.4	205.7	189.72	2.084	
13,900.0	7,350.0	14,103.7	7,572.0	115.5	115.3	124.02	6,430.2	-162.2	396.9	203.9	192.91	2.057	
14,000.0	7,350.0	14,203.6	7,572.0	117.3	117.1	123.88	6,530.1	-162.2	398.3	202.2	196.11	2.031	
14,100.0	7,350.0	14,303.6	7,572.0	119.0	118.8	123.74	6,630.1	-162.2	399.8	200.4	199.32	2.006	
14,200.0	7,350.0	14,403.6	7,572.0	120.8	120.5	123.60	6,730.1	-162.2	401.2	198.7	202.53	1.981	
14,300.0	7,350.0	14,503.6	7,572.0	122.5	122.3	123.46	6,830.1	-162.2	402.7	196.9	205.75	1.957	
14,400.0	7,350.0	14,603.6	7,572.0	124.2	124.0	123.33	6,930.1	-162.2	404.1	195.1	208.98	1.934	
14,500.0	7,350.0	14,703.6	7,572.0	126.0	125.8	123.19	7,030.1	-162.2	405.6	193.4	212.21	1.911	
14,600.0	7,350.0	14,803.6	7,572.0	127.7	127.5	123.06	7,130.0	-162.2	407.0	191.6	215.45	1.889	
14,700.0	7,350.0	14,903.5	7,572.0	129.5	129.3	122.92	7,230.0	-162.2	408.5	189.8	218.69	1.868	
14,800.0	7,350.0	15,003.5	7,572.0	131.2	131.0	122.79	7,330.0	-162.2	410.0	188.0	221.94	1.847	
14,900.0	7,350.0	15,103.5	7,572.0	133.0	132.7	122.66	7,430.0	-162.2	411.4	186.2	225.20	1.827	
15,000.0	7,350.0	15,203.5	7,572.0	134.7	134.5	122.53	7,530.0	-162.2	412.9	184.5	228.46	1.807	
15,076.2	7,350.0	15,279.7	7,572.0	136.0	135.8	122.43	7,606.2	-162.2	414.0	183.1	230.95	1.793 SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.05	0.0	19.6	19.6					
100.0	100.0	101.0	101.0	0.1	0.1	90.05	0.0	19.6	19.6	19.3	0.26	74.283		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	19.6	19.6	19.0	0.61	31.956 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	-136.35	0.0	19.6	20.2	19.2	0.96	20.995		
400.0	400.0	401.0	401.0	0.7	0.7	-141.02	0.0	19.6	22.2	20.9	1.31	16.884		
500.0	499.9	500.9	500.9	0.8	0.8	-147.12	0.0	19.6	25.7	24.0	1.66	15.441		
600.0	599.7	600.7	600.7	1.0	1.0	-153.23	0.0	19.6	31.0	29.0	2.02	15.384 SF		
700.0	699.4	700.4	700.4	1.3	1.2	-157.01	-0.8	19.9	37.9	35.5	2.37	15.992		
800.0	799.1	800.2	800.1	1.5	1.4	-157.46	-3.2	20.9	44.9	42.2	2.72	16.479		
900.0	898.8	899.9	899.8	1.7	1.5	-155.87	-7.3	22.6	51.9	48.8	3.09	16.808		
1,000.0	998.5	999.6	999.3	1.9	1.7	-153.19	-12.7	24.8	59.1	55.6	3.47	17.048		
1,100.0	1,098.2	1,099.3	1,098.8	2.1	1.9	-150.92	-18.3	27.2	66.4	62.5	3.85	17.247		
1,200.0	1,197.9	1,199.0	1,198.3	2.3	2.1	-149.10	-23.9	29.5	73.7	69.5	4.23	17.416		
1,300.0	1,297.6	1,298.7	1,297.8	2.5	2.3	-147.61	-29.5	31.8	81.1	76.5	4.62	17.560		
1,400.0	1,397.4	1,398.4	1,397.4	2.8	2.5	-146.37	-35.1	34.1	88.6	83.6	5.01	17.684		
1,500.0	1,497.1	1,498.1	1,496.9	3.0	2.7	-145.32	-40.7	36.5	96.1	90.7	5.40	17.792		
1,600.0	1,596.8	1,597.8	1,596.4	3.2	2.9	-144.43	-46.3	38.8	103.6	97.8	5.79	17.886		
1,700.0	1,696.5	1,697.5	1,695.9	3.4	3.1	-143.66	-51.9	41.1	111.2	105.0	6.19	17.969		
1,800.0	1,796.2	1,797.2	1,795.4	3.6	3.3	-142.98	-57.5	43.5	118.7	112.2	6.58	18.043		
1,900.0	1,895.9	1,896.9	1,894.9	3.9	3.5	-142.39	-63.1	45.8	126.3	119.4	6.98	18.110		
2,000.0	1,995.6	1,996.6	1,994.5	4.1	3.7	-141.86	-68.6	48.1	133.9	126.6	7.37	18.169		
2,100.0	2,095.3	2,096.3	2,094.0	4.3	3.9	-141.39	-74.2	50.4	141.5	133.8	7.77	18.223		
2,200.0	2,195.0	2,196.0	2,193.5	4.5	4.1	-140.97	-79.8	52.8	149.1	141.0	8.16	18.272		
2,300.0	2,294.7	2,295.7	2,293.0	4.7	4.3	-140.59	-85.4	55.1	156.8	148.2	8.56	18.317		
2,400.0	2,394.4	2,395.4	2,392.5	4.9	4.5	-140.24	-91.0	57.4	164.4	155.4	8.95	18.358		
2,500.0	2,494.2	2,495.1	2,492.1	5.2	4.7	-139.93	-96.6	59.7	172.0	162.7	9.35	18.396		
2,600.0	2,593.9	2,594.8	2,591.6	5.4	4.9	-139.64	-102.2	62.1	179.7	169.9	9.75	18.430		
2,700.0	2,693.6	2,694.6	2,691.1	5.6	5.1	-139.37	-107.8	64.4	187.3	177.2	10.14	18.462		
2,800.0	2,793.3	2,794.3	2,790.6	5.8	5.3	-139.13	-113.4	66.7	194.9	184.4	10.54	18.492		
2,900.0	2,893.0	2,894.0	2,890.1	6.0	5.5	-138.90	-119.0	69.1	202.6	191.6	10.94	18.520		
3,000.0	2,992.7	2,993.7	2,989.7	6.3	5.7	-138.69	-124.6	71.4	210.2	198.9	11.34	18.546		
3,100.0	3,092.4	3,093.4	3,089.2	6.5	5.9	-138.50	-130.2	73.7	217.9	206.2	11.73	18.570		
3,200.0	3,192.1	3,193.1	3,188.7	6.7	6.1	-138.32	-135.8	76.0	225.5	213.4	12.13	18.593		
3,300.0	3,291.8	3,292.8	3,288.2	6.9	6.3	-138.15	-141.4	78.4	233.2	220.7	12.53	18.614		
3,400.0	3,391.5	3,392.5	3,387.7	7.1	6.5	-137.99	-147.0	80.7	240.9	227.9	12.93	18.634		
3,500.0	3,491.2	3,492.2	3,487.3	7.4	6.7	-137.84	-152.6	83.0	248.5	235.2	13.32	18.653		
3,600.0	3,591.0	3,591.9	3,586.8	7.6	6.9	-137.70	-158.2	85.3	256.2	242.5	13.72	18.671		
3,700.0	3,690.7	3,691.6	3,686.3	7.8	7.1	-137.57	-163.8	87.7	263.9	249.7	14.12	18.688		
3,800.0	3,790.4	3,791.3	3,785.8	8.0	7.3	-137.45	-169.4	90.0	271.5	257.0	14.52	18.704		
3,900.0	3,890.1	3,891.0	3,885.3	8.2	7.5	-137.33	-175.0	92.3	279.2	264.3	14.91	18.719		
4,000.0	3,989.8	3,990.7	3,984.9	8.5	7.7	-137.22	-180.6	94.7	286.8	271.5	15.31	18.734		
4,100.0	4,089.5	4,090.4	4,084.4	8.7	7.9	-137.11	-186.2	97.0	294.5	278.8	15.71	18.747		
4,200.0	4,189.2	4,190.1	4,183.9	8.9	8.1	-137.01	-191.8	99.3	302.2	286.1	16.11	18.760		
4,300.0	4,288.9	4,289.8	4,283.4	9.1	8.3	-136.92	-197.4	101.6	309.9	293.4	16.51	18.773		
4,400.0	4,388.6	4,389.5	4,382.9	9.3	8.6	-136.83	-203.0	104.0	317.5	300.6	16.90	18.785		
4,500.0	4,488.3	4,489.2	4,482.5	9.6	8.8	-136.74	-208.6	106.3	325.2	307.9	17.30	18.796		
4,600.0	4,588.1	4,588.9	4,582.0	9.8	9.0	-136.66	-214.2	108.6	332.9	315.2	17.70	18.807		
4,700.0	4,687.8	4,688.6	4,681.5	10.0	9.2	-136.58	-219.8	110.9	340.5	322.4	18.10	18.817		
4,800.0	4,787.5	4,788.3	4,781.0	10.2	9.4	-136.50	-225.4	113.3	348.2	329.7	18.50	18.827		
4,900.0	4,887.2	4,888.0	4,880.5	10.4	9.6	-136.43	-231.0	115.6	355.9	337.0	18.89	18.837		
5,000.0	4,986.9	4,987.7	4,980.1	10.6	9.8	-136.36	-236.6	117.9	363.6	344.3	19.29	18.846		
5,100.0	5,086.6	5,087.5	5,079.6	10.9	10.0	-136.30	-242.2	120.3	371.2	351.6	19.69	18.855		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #1											Offset Site Error:		0.0 ft
Survey Program: 0-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,186.3	5,187.2	5,179.1	11.1	10.2	-136.23	-247.8	122.6	378.9	358.8	20.09	18.863	
5,300.0	5,286.0	5,286.9	5,278.6	11.3	10.4	-136.17	-253.4	124.9	386.6	366.1	20.49	18.871	
5,400.0	5,385.7	5,386.6	5,378.1	11.5	10.6	-136.11	-259.0	127.2	394.3	373.4	20.88	18.879	
5,500.0	5,485.4	5,486.3	5,477.7	11.7	10.8	-136.06	-264.6	129.6	402.0	380.7	21.28	18.886	
5,600.0	5,585.1	5,586.0	5,577.2	12.0	11.0	-136.00	-270.2	131.9	409.6	387.9	21.68	18.894	
5,700.0	5,684.9	5,685.7	5,676.7	12.2	11.2	-135.95	-275.8	134.2	417.3	395.2	22.08	18.901	
5,800.0	5,784.6	5,785.4	5,776.2	12.4	11.4	-135.90	-281.4	136.5	425.0	402.5	22.48	18.908	
5,900.0	5,884.3	5,885.1	5,875.7	12.6	11.6	-135.85	-287.0	138.9	432.7	409.8	22.88	18.914	
6,000.0	5,984.0	5,984.8	5,975.3	12.8	11.8	-135.81	-292.6	141.2	440.3	417.1	23.27	18.920	
6,100.0	6,083.7	6,084.5	6,074.8	13.1	12.0	-135.76	-298.2	143.5	448.0	424.4	23.67	18.927	
6,200.0	6,183.4	6,184.2	6,174.3	13.3	12.2	-135.72	-303.8	145.9	455.7	431.6	24.07	18.932	
6,300.0	6,283.1	6,283.9	6,273.8	13.5	12.4	-135.67	-309.4	148.2	463.4	438.9	24.47	18.938	
6,400.0	6,382.8	6,383.6	6,373.3	13.7	12.6	-135.63	-315.0	150.5	471.1	446.2	24.87	18.944	
6,500.0	6,482.5	6,483.3	6,472.9	13.9	12.8	-135.59	-320.6	152.8	478.7	453.5	25.26	18.949	
6,600.0	6,582.2	6,583.0	6,572.4	14.2	13.0	-135.56	-326.2	155.2	486.4	460.8	25.66	18.954	
6,700.0	6,681.9	6,682.7	6,671.9	14.4	13.2	-135.52	-331.8	157.5	494.1	468.0	26.06	18.959	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.05	0.0	27.8	27.8					
100.0	100.0	101.0	101.0	0.1	0.1	90.05	0.0	27.8	27.8	27.6	0.26	105.629		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	27.8	27.8	27.2	0.61	45.441	CC, ES	
300.0	300.0	301.0	301.0	0.5	0.5	-135.84	0.0	27.8	28.5	27.5	0.96	29.579		
400.0	400.0	401.0	401.0	0.7	0.7	-139.27	0.0	27.8	30.4	29.1	1.31	23.143		
500.0	499.9	500.9	500.9	0.8	0.8	-144.07	0.0	27.8	33.8	32.2	1.67	20.301		
600.0	599.7	600.3	600.3	1.0	1.0	-148.26	-0.6	28.5	39.4	37.4	2.02	19.536	SF	
700.0	699.4	699.5	699.5	1.3	1.2	-150.46	-2.3	30.5	47.4	45.0	2.37	19.962		
800.0	799.1	798.6	798.5	1.5	1.4	-150.63	-5.0	33.8	56.5	53.7	2.74	20.634		
900.0	898.8	897.5	897.2	1.7	1.6	-149.51	-8.9	38.4	66.5	63.4	3.11	21.403		
1,000.0	998.5	996.2	995.6	1.9	1.8	-147.68	-13.8	44.3	77.6	74.1	3.49	22.243		
1,100.0	1,098.2	1,095.5	1,094.5	2.1	2.0	-145.94	-19.2	50.7	89.1	85.3	3.87	23.010		
1,200.0	1,197.9	1,194.8	1,193.5	2.3	2.2	-144.61	-24.6	57.2	100.8	96.5	4.26	23.641		
1,300.0	1,297.6	1,294.1	1,292.4	2.5	2.4	-143.55	-30.0	63.6	112.4	107.8	4.65	24.167		
1,400.0	1,397.4	1,393.4	1,391.3	2.8	2.6	-142.69	-35.4	70.1	124.1	119.1	5.04	24.613		
1,500.0	1,497.1	1,492.7	1,490.3	3.0	2.8	-141.98	-40.8	76.5	135.8	130.4	5.43	24.996		
1,600.0	1,596.8	1,592.0	1,589.2	3.2	3.0	-141.38	-46.2	82.9	147.6	141.7	5.83	25.328		
1,700.0	1,696.5	1,691.3	1,688.2	3.4	3.3	-140.87	-51.6	89.4	159.3	153.1	6.22	25.618		
1,800.0	1,796.2	1,790.6	1,787.1	3.6	3.5	-140.43	-57.0	95.8	171.1	164.5	6.61	25.873		
1,900.0	1,895.9	1,889.9	1,886.1	3.9	3.7	-140.05	-62.4	102.3	182.8	175.8	7.00	26.101		
2,000.0	1,995.6	1,989.2	1,985.0	4.1	3.9	-139.71	-67.8	108.7	194.6	187.2	7.40	26.304		
2,100.0	2,095.3	2,088.5	2,083.9	4.3	4.2	-139.41	-73.2	115.2	206.4	198.6	7.79	26.486		
2,200.0	2,195.0	2,187.8	2,182.9	4.5	4.4	-139.14	-78.6	121.6	218.2	210.0	8.19	26.652		
2,300.0	2,294.7	2,287.1	2,281.8	4.7	4.6	-138.90	-84.0	128.0	229.9	221.4	8.58	26.802		
2,400.0	2,394.4	2,386.4	2,380.8	4.9	4.8	-138.69	-89.3	134.5	241.7	232.8	8.97	26.939		
2,500.0	2,494.2	2,485.7	2,479.7	5.2	5.0	-138.49	-94.7	140.9	253.5	244.2	9.37	27.064		
2,600.0	2,593.9	2,585.0	2,578.7	5.4	5.3	-138.31	-100.1	147.4	265.3	255.6	9.76	27.179		
2,700.0	2,693.6	2,684.3	2,677.6	5.6	5.5	-138.15	-105.5	153.8	277.1	267.0	10.16	27.286		
2,800.0	2,793.3	2,783.6	2,776.5	5.8	5.7	-138.00	-110.9	160.3	288.9	278.4	10.55	27.384		
2,900.0	2,893.0	2,882.9	2,875.5	6.0	5.9	-137.86	-116.3	166.7	300.7	289.8	10.95	27.476		
3,000.0	2,992.7	2,982.2	2,974.4	6.3	6.2	-137.74	-121.7	173.1	312.5	301.2	11.34	27.561		
3,100.0	3,092.4	3,081.5	3,073.4	6.5	6.4	-137.62	-127.1	179.6	324.3	312.6	11.73	27.640		
3,200.0	3,192.1	3,180.8	3,172.3	6.7	6.6	-137.51	-132.5	186.0	336.1	324.0	12.13	27.714		
3,300.0	3,291.8	3,280.1	3,271.3	6.9	6.9	-137.40	-137.9	192.5	347.9	335.4	12.52	27.784		
3,400.0	3,391.5	3,379.4	3,370.2	7.1	7.1	-137.31	-143.3	198.9	359.8	346.8	12.92	27.849		
3,500.0	3,491.2	3,478.7	3,469.1	7.4	7.3	-137.22	-148.7	205.4	371.6	358.3	13.31	27.910		
3,600.0	3,591.0	3,578.0	3,568.1	7.6	7.5	-137.14	-154.1	211.8	383.4	369.7	13.71	27.968		
3,700.0	3,690.7	3,677.3	3,667.0	7.8	7.8	-137.06	-159.5	218.2	395.2	381.1	14.10	28.023		
3,800.0	3,790.4	3,776.6	3,766.0	8.0	8.0	-136.98	-164.9	224.7	407.0	392.5	14.50	28.074		
3,900.0	3,890.1	3,875.9	3,864.9	8.2	8.2	-136.91	-170.3	231.1	418.8	403.9	14.89	28.123		
4,000.0	3,989.8	3,975.2	3,963.8	8.5	8.4	-136.84	-175.7	237.6	430.6	415.3	15.29	28.169		
4,100.0	4,089.5	4,074.5	4,062.8	8.7	8.7	-136.78	-181.1	244.0	442.4	426.8	15.68	28.213		
4,200.0	4,189.2	4,173.8	4,161.7	8.9	8.9	-136.72	-186.5	250.5	454.2	438.2	16.08	28.255		
4,300.0	4,288.9	4,273.0	4,260.7	9.1	9.1	-136.67	-191.9	256.9	466.1	449.6	16.47	28.295		
4,400.0	4,388.6	4,372.3	4,359.6	9.3	9.3	-136.61	-197.3	263.3	477.9	461.0	16.87	28.333		
4,500.0	4,488.3	4,471.6	4,458.6	9.6	9.6	-136.56	-202.7	269.8	489.7	472.4	17.26	28.369		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												S22-T2N-R68W (Jillson-East Rinn) - NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - NO SURVE		Offset Site Error:		0.0 ft	
Survey Program:												7710-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							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					
9,000.0	7,350.0	7,296.0	7,296.0	32.1	12.7	90.00	1,617.4	83.6	496.8	452.6	44.16	11.251					
9,077.9	7,350.0	7,296.0	7,296.0	33.3	12.7	90.00	1,617.4	83.6	490.6	445.2	45.41	10.805 CC, ES					
9,100.0	7,350.0	7,296.0	7,296.0	33.7	12.7	90.00	1,617.4	83.6	491.1	445.4	45.77	10.732 SF					



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3A-22H-M268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 4974.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3A-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4974.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°

