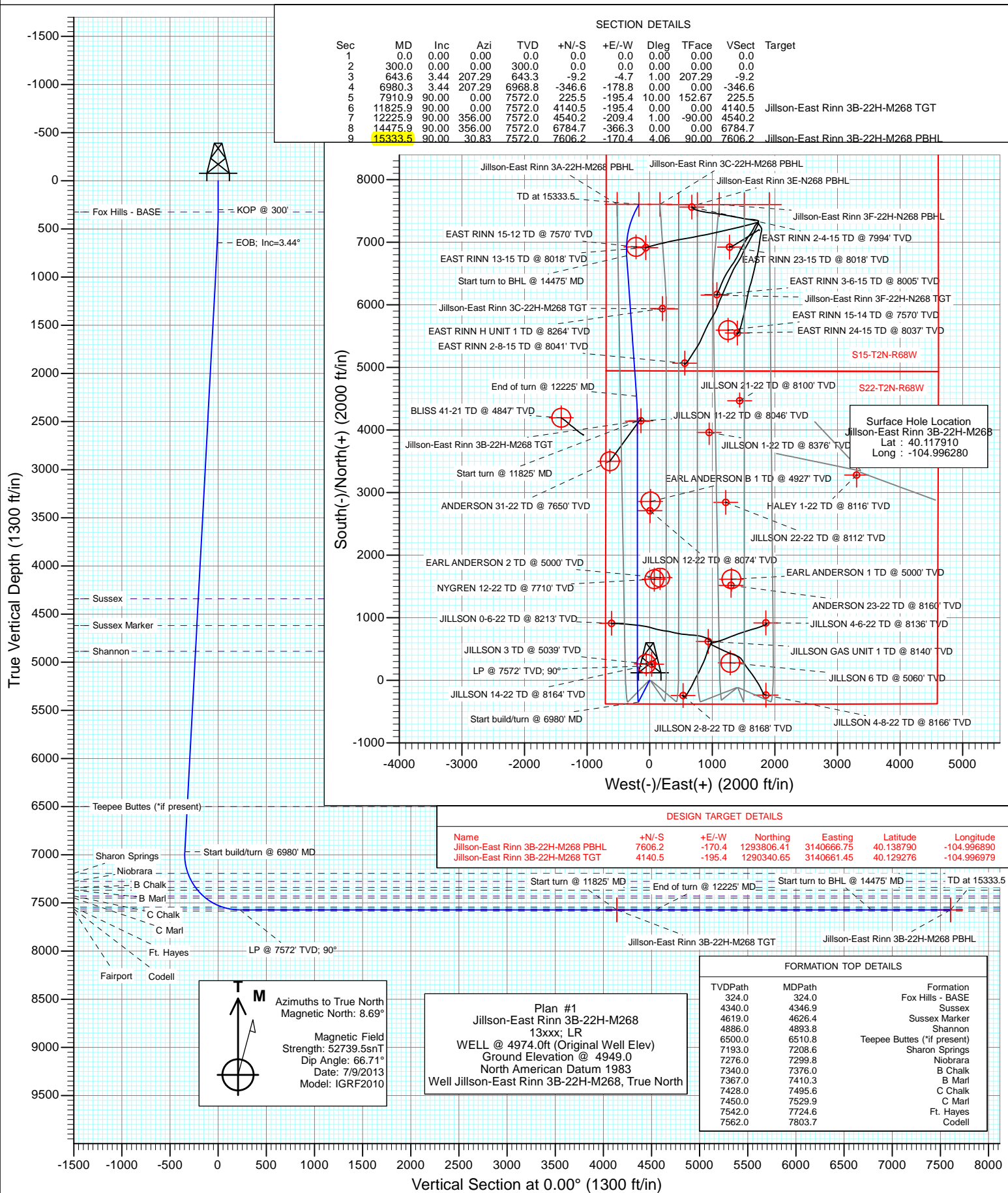




Project: DJ Wattenberg  
Site: S22-T2N-R68W (Jillson-East Rinn)  
Well: Jillson-East Rinn 3B-22H-M268  
Wellbore: Hz  
Design: Plan #1



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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 3B-22H-M268					
Well Position	+N/-S	0.0 ft	Northing:	1,286,201.32 ft	Latitude:	40.117910
	+E/-W	0.0 ft	Easting:	3,140,880.37 ft	Longitude:	-104.996280
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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
643.6	3.44	207.29	643.3	-9.2	-4.7	1.00	1.00	0.00	207.29	
6,980.3	3.44	207.29	6,968.8	-346.6	-178.8	0.00	0.00	0.00	0.00	
7,910.9	90.00	0.00	7,572.0	225.5	-195.4	10.00	9.30	16.41	152.67	
11,825.9	90.00	0.00	7,572.0	4,140.5	-195.4	0.00	0.00	0.00	0.00	Jillson-East Rinn 3B-2
12,225.9	90.00	356.00	7,572.0	4,540.2	-209.4	1.00	0.00	-1.00	-90.00	
14,475.9	90.00	356.00	7,572.0	6,784.7	-366.3	0.00	0.00	0.00	0.00	
15,333.5	90.00	30.83	7,572.0	7,606.2	-170.4	4.06	0.00	4.06	90.00	Jillson-East Rinn 3B-2

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
324.0	0.24	207.29	324.0	0.0	0.0	0.0	1.00	1.00	Fox Hills - BASE
400.0	1.00	207.29	400.0	-0.8	-0.4	-0.8	1.00	1.00	
500.0	2.00	207.29	500.0	-3.1	-1.6	-3.1	1.00	1.00	
600.0	3.00	207.29	599.9	-7.0	-3.6	-7.0	1.00	1.00	
643.6	3.44	207.29	643.3	-9.2	-4.7	-9.2	1.00	1.00	EOB; Inc=3.44°
700.0	3.44	207.29	699.7	-12.2	-6.3	-12.2	0.00	0.00	
800.0	3.44	207.29	799.5	-17.5	-9.0	-17.5	0.00	0.00	
900.0	3.44	207.29	899.3	-22.8	-11.8	-22.8	0.00	0.00	
1,000.0	3.44	207.29	999.2	-28.1	-14.5	-28.1	0.00	0.00	
1,100.0	3.44	207.29	1,099.0	-33.5	-17.3	-33.5	0.00	0.00	
1,200.0	3.44	207.29	1,198.8	-38.8	-20.0	-38.8	0.00	0.00	
1,300.0	3.44	207.29	1,298.6	-44.1	-22.8	-44.1	0.00	0.00	
1,400.0	3.44	207.29	1,398.4	-49.4	-25.5	-49.4	0.00	0.00	
1,500.0	3.44	207.29	1,498.3	-54.8	-28.2	-54.8	0.00	0.00	
1,600.0	3.44	207.29	1,598.1	-60.1	-31.0	-60.1	0.00	0.00	
1,700.0	3.44	207.29	1,697.9	-65.4	-33.7	-65.4	0.00	0.00	
1,800.0	3.44	207.29	1,797.7	-70.7	-36.5	-70.7	0.00	0.00	
1,900.0	3.44	207.29	1,897.5	-76.1	-39.2	-76.1	0.00	0.00	
2,000.0	3.44	207.29	1,997.4	-81.4	-42.0	-81.4	0.00	0.00	
2,100.0	3.44	207.29	2,097.2	-86.7	-44.7	-86.7	0.00	0.00	
2,200.0	3.44	207.29	2,197.0	-92.0	-47.5	-92.0	0.00	0.00	
2,300.0	3.44	207.29	2,296.8	-97.4	-50.2	-97.4	0.00	0.00	
2,400.0	3.44	207.29	2,396.6	-102.7	-53.0	-102.7	0.00	0.00	
2,500.0	3.44	207.29	2,496.5	-108.0	-55.7	-108.0	0.00	0.00	
2,600.0	3.44	207.29	2,596.3	-113.3	-58.5	-113.3	0.00	0.00	
2,700.0	3.44	207.29	2,696.1	-118.7	-61.2	-118.7	0.00	0.00	
2,800.0	3.44	207.29	2,795.9	-124.0	-64.0	-124.0	0.00	0.00	
2,900.0	3.44	207.29	2,895.7	-129.3	-66.7	-129.3	0.00	0.00	
3,000.0	3.44	207.29	2,995.6	-134.7	-69.5	-134.7	0.00	0.00	
3,100.0	3.44	207.29	3,095.4	-140.0	-72.2	-140.0	0.00	0.00	
3,200.0	3.44	207.29	3,195.2	-145.3	-74.9	-145.3	0.00	0.00	
3,300.0	3.44	207.29	3,295.0	-150.6	-77.7	-150.6	0.00	0.00	
3,400.0	3.44	207.29	3,394.8	-156.0	-80.4	-156.0	0.00	0.00	
3,500.0	3.44	207.29	3,494.7	-161.3	-83.2	-161.3	0.00	0.00	
3,600.0	3.44	207.29	3,594.5	-166.6	-85.9	-166.6	0.00	0.00	
3,700.0	3.44	207.29	3,694.3	-171.9	-88.7	-171.9	0.00	0.00	
3,800.0	3.44	207.29	3,794.1	-177.3	-91.4	-177.3	0.00	0.00	
3,900.0	3.44	207.29	3,893.9	-182.6	-94.2	-182.6	0.00	0.00	
4,000.0	3.44	207.29	3,993.8	-187.9	-96.9	-187.9	0.00	0.00	
4,100.0	3.44	207.29	4,093.6	-193.2	-99.7	-193.2	0.00	0.00	
4,200.0	3.44	207.29	4,193.4	-198.6	-102.4	-198.6	0.00	0.00	
4,300.0	3.44	207.29	4,293.2	-203.9	-105.2	-203.9	0.00	0.00	
4,346.9	3.44	207.29	4,340.0	-206.4	-106.5	-206.4	0.00	0.00	Sussex
4,400.0	3.44	207.29	4,393.0	-209.2	-107.9	-209.2	0.00	0.00	
4,500.0	3.44	207.29	4,492.9	-214.5	-110.7	-214.5	0.00	0.00	
4,600.0	3.44	207.29	4,592.7	-219.9	-113.4	-219.9	0.00	0.00	
4,626.4	3.44	207.29	4,619.0	-221.3	-114.1	-221.3	0.00	0.00	Sussex Marker
4,700.0	3.44	207.29	4,692.5	-225.2	-116.2	-225.2	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 3B-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 3B-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	3.44	207.29	4,792.3	-230.5	-118.9	-230.5	0.00	0.00	
4,893.8	3.44	207.29	4,886.0	-235.5	-121.5	-235.5	0.00	0.00	Shannon
4,900.0	3.44	207.29	4,892.1	-235.8	-121.6	-235.8	0.00	0.00	
5,000.0	3.44	207.29	4,992.0	-241.2	-124.4	-241.2	0.00	0.00	
5,100.0	3.44	207.29	5,091.8	-246.5	-127.1	-246.5	0.00	0.00	
5,200.0	3.44	207.29	5,191.6	-251.8	-129.9	-251.8	0.00	0.00	
5,300.0	3.44	207.29	5,291.4	-257.1	-132.6	-257.1	0.00	0.00	
5,400.0	3.44	207.29	5,391.2	-262.5	-135.4	-262.5	0.00	0.00	
5,500.0	3.44	207.29	5,491.1	-267.8	-138.1	-267.8	0.00	0.00	
5,600.0	3.44	207.29	5,590.9	-273.1	-140.9	-273.1	0.00	0.00	
5,700.0	3.44	207.29	5,690.7	-278.4	-143.6	-278.4	0.00	0.00	
5,800.0	3.44	207.29	5,790.5	-283.8	-146.4	-283.8	0.00	0.00	
5,900.0	3.44	207.29	5,890.3	-289.1	-149.1	-289.1	0.00	0.00	
6,000.0	3.44	207.29	5,990.2	-294.4	-151.9	-294.4	0.00	0.00	
6,100.0	3.44	207.29	6,090.0	-299.8	-154.6	-299.8	0.00	0.00	
6,200.0	3.44	207.29	6,189.8	-305.1	-157.4	-305.1	0.00	0.00	
6,300.0	3.44	207.29	6,289.6	-310.4	-160.1	-310.4	0.00	0.00	
6,400.0	3.44	207.29	6,389.4	-315.7	-162.9	-315.7	0.00	0.00	
6,500.0	3.44	207.29	6,489.3	-321.1	-165.6	-321.1	0.00	0.00	
6,510.8	3.44	207.29	6,500.0	-321.6	-165.9	-321.6	0.00	0.00	Teepee Buttes (*if present)
6,600.0	3.44	207.29	6,589.1	-326.4	-168.3	-326.4	0.00	0.00	
6,700.0	3.44	207.29	6,688.9	-331.7	-171.1	-331.7	0.00	0.00	
6,800.0	3.44	207.29	6,788.7	-337.0	-173.8	-337.0	0.00	0.00	
6,900.0	3.44	207.29	6,888.6	-342.4	-176.6	-342.4	0.00	0.00	
6,980.3	3.44	207.29	6,968.8	-346.6	-178.8	-346.6	0.00	0.00	Start build/turn @ 6980' MD
7,000.0	1.92	235.38	6,988.4	-347.3	-179.3	-347.3	10.00	-7.74	
7,100.0	9.05	350.05	7,088.0	-340.5	-182.1	-340.5	10.00	7.13	
7,200.0	18.98	355.41	7,184.9	-316.5	-184.7	-316.5	10.00	9.93	
7,208.6	19.83	355.62	7,193.0	-313.7	-185.0	-313.7	10.00	9.97	Sharon Springs
7,299.8	28.93	357.15	7,276.0	-276.1	-187.3	-276.1	10.00	9.98	Niobrara
7,300.0	28.95	357.15	7,276.2	-276.0	-187.3	-276.0	10.00	9.98	
7,376.0	36.54	357.87	7,340.0	-235.0	-189.0	-235.0	10.00	9.99	B Chalk
7,400.0	38.94	358.05	7,359.0	-220.3	-189.5	-220.3	10.00	9.99	
7,410.3	39.97	358.12	7,367.0	-213.7	-189.8	-213.7	10.00	9.99	B Marl
7,495.6	48.49	358.60	7,428.0	-154.4	-191.4	-154.4	10.00	9.99	C Chalk
7,500.0	48.93	358.63	7,430.9	-151.1	-191.5	-151.1	10.00	9.99	
7,529.9	51.92	358.76	7,450.0	-128.0	-192.0	-128.0	10.00	9.99	C Marl
7,600.0	58.93	359.05	7,489.7	-70.3	-193.1	-70.3	10.00	9.99	
7,700.0	68.92	359.39	7,533.6	19.4	-194.3	19.4	10.00	10.00	
7,724.6	71.38	359.47	7,542.0	42.5	-194.6	42.5	10.00	10.00	Ft. Hayes
7,800.0	78.92	359.69	7,561.3	115.3	-195.1	115.3	10.00	10.00	
7,803.7	79.28	359.70	7,562.0	118.9	-195.1	118.9	10.00	10.00	Codell
7,900.0	88.91	359.97	7,571.9	214.6	-195.4	214.6	10.00	10.00	
7,910.9	90.00	0.00	7,572.0	225.5	-195.4	225.5	10.00	10.00	LP @ 7572' TVD; 90°
8,000.0	90.00	0.00	7,572.0	314.6	-195.4	314.6	0.00	0.00	
8,100.0	90.00	0.00	7,572.0	414.6	-195.4	414.6	0.00	0.00	
8,200.0	90.00	0.00	7,572.0	514.6	-195.4	514.6	0.00	0.00	
8,300.0	90.00	0.00	7,572.0	614.6	-195.4	614.6	0.00	0.00	
8,400.0	90.00	0.00	7,572.0	714.6	-195.4	714.6	0.00	0.00	
8,500.0	90.00	0.00	7,572.0	814.6	-195.4	814.6	0.00	0.00	
8,600.0	90.00	0.00	7,572.0	914.6	-195.4	914.6	0.00	0.00	
8,700.0	90.00	0.00	7,572.0	1,014.6	-195.4	1,014.6	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 3B-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 3B-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
8,800.0	90.00	0.00	7,572.0	1,114.6	-195.4	1,114.6	0.00	0.00	
8,900.0	90.00	0.00	7,572.0	1,214.6	-195.4	1,214.6	0.00	0.00	
9,000.0	90.00	0.00	7,572.0	1,314.6	-195.4	1,314.6	0.00	0.00	
9,100.0	90.00	0.00	7,572.0	1,414.6	-195.4	1,414.6	0.00	0.00	
9,200.0	90.00	0.00	7,572.0	1,514.6	-195.4	1,514.6	0.00	0.00	
9,300.0	90.00	0.00	7,572.0	1,614.6	-195.4	1,614.6	0.00	0.00	
9,400.0	90.00	0.00	7,572.0	1,714.6	-195.4	1,714.6	0.00	0.00	
9,500.0	90.00	0.00	7,572.0	1,814.6	-195.4	1,814.6	0.00	0.00	
9,600.0	90.00	0.00	7,572.0	1,914.6	-195.4	1,914.6	0.00	0.00	
9,700.0	90.00	0.00	7,572.0	2,014.6	-195.4	2,014.6	0.00	0.00	
9,800.0	90.00	0.00	7,572.0	2,114.6	-195.4	2,114.6	0.00	0.00	
9,900.0	90.00	0.00	7,572.0	2,214.6	-195.4	2,214.6	0.00	0.00	
10,000.0	90.00	0.00	7,572.0	2,314.6	-195.4	2,314.6	0.00	0.00	
10,100.0	90.00	0.00	7,572.0	2,414.6	-195.4	2,414.6	0.00	0.00	
10,200.0	90.00	0.00	7,572.0	2,514.6	-195.4	2,514.6	0.00	0.00	
10,300.0	90.00	0.00	7,572.0	2,614.6	-195.4	2,614.6	0.00	0.00	
10,400.0	90.00	0.00	7,572.0	2,714.6	-195.4	2,714.6	0.00	0.00	
10,500.0	90.00	0.00	7,572.0	2,814.6	-195.4	2,814.6	0.00	0.00	
10,600.0	90.00	0.00	7,572.0	2,914.6	-195.4	2,914.6	0.00	0.00	
10,700.0	90.00	0.00	7,572.0	3,014.6	-195.4	3,014.6	0.00	0.00	
10,800.0	90.00	0.00	7,572.0	3,114.6	-195.4	3,114.6	0.00	0.00	
10,900.0	90.00	0.00	7,572.0	3,214.6	-195.4	3,214.6	0.00	0.00	
11,000.0	90.00	0.00	7,572.0	3,314.6	-195.4	3,314.6	0.00	0.00	
11,100.0	90.00	0.00	7,572.0	3,414.6	-195.4	3,414.6	0.00	0.00	
11,200.0	90.00	0.00	7,572.0	3,514.6	-195.4	3,514.6	0.00	0.00	
11,300.0	90.00	0.00	7,572.0	3,614.6	-195.4	3,614.6	0.00	0.00	
11,400.0	90.00	0.00	7,572.0	3,714.6	-195.4	3,714.6	0.00	0.00	
11,500.0	90.00	0.00	7,572.0	3,814.6	-195.4	3,814.6	0.00	0.00	
11,600.0	90.00	0.00	7,572.0	3,914.6	-195.4	3,914.6	0.00	0.00	
11,700.0	90.00	0.00	7,572.0	4,014.6	-195.4	4,014.6	0.00	0.00	
11,800.0	90.00	0.00	7,572.0	4,114.6	-195.4	4,114.6	0.00	0.00	
11,825.9	90.00	0.00	7,572.0	4,140.5	-195.4	4,140.5	0.00	0.00	Start turn @ 11825' MD - Jillson-East Rinn 3B-2
11,900.0	90.00	359.26	7,572.0	4,214.6	-195.9	4,214.6	1.00	0.00	
12,000.0	90.00	358.26	7,572.0	4,314.6	-198.0	4,314.6	1.00	0.00	
12,100.0	90.00	357.26	7,572.0	4,414.5	-202.0	4,414.5	1.00	0.00	
12,200.0	90.00	356.26	7,572.0	4,514.4	-207.6	4,514.4	1.00	0.00	
12,225.9	90.00	356.00	7,572.0	4,540.2	-209.4	4,540.2	1.00	0.00	End of turn @ 12225' MD
12,300.0	90.00	356.00	7,572.0	4,614.1	-214.5	4,614.1	0.00	0.00	
12,400.0	90.00	356.00	7,572.0	4,713.9	-221.5	4,713.9	0.00	0.00	
12,500.0	90.00	356.00	7,572.0	4,813.6	-228.5	4,813.6	0.00	0.00	
12,600.0	90.00	356.00	7,572.0	4,913.4	-235.5	4,913.4	0.00	0.00	
12,700.0	90.00	356.00	7,572.0	5,013.1	-242.4	5,013.1	0.00	0.00	
12,800.0	90.00	356.00	7,572.0	5,112.9	-249.4	5,112.9	0.00	0.00	
12,900.0	90.00	356.00	7,572.0	5,212.7	-256.4	5,212.7	0.00	0.00	
13,000.0	90.00	356.00	7,572.0	5,312.4	-263.4	5,312.4	0.00	0.00	
13,100.0	90.00	356.00	7,572.0	5,412.2	-270.3	5,412.2	0.00	0.00	
13,200.0	90.00	356.00	7,572.0	5,511.9	-277.3	5,511.9	0.00	0.00	
13,300.0	90.00	356.00	7,572.0	5,611.7	-284.3	5,611.7	0.00	0.00	
13,400.0	90.00	356.00	7,572.0	5,711.4	-291.3	5,711.4	0.00	0.00	
13,500.0	90.00	356.00	7,572.0	5,811.2	-298.2	5,811.2	0.00	0.00	
13,600.0	90.00	356.00	7,572.0	5,911.0	-305.2	5,911.0	0.00	0.00	
13,700.0	90.00	356.00	7,572.0	6,010.7	-312.2	6,010.7	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 3B-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 3B-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
13,800.0	90.00	356.00	7,572.0	6,110.5	-319.2	6,110.5	0.00	0.00	
13,900.0	90.00	356.00	7,572.0	6,210.2	-326.1	6,210.2	0.00	0.00	
14,000.0	90.00	356.00	7,572.0	6,310.0	-333.1	6,310.0	0.00	0.00	
14,100.0	90.00	356.00	7,572.0	6,409.7	-340.1	6,409.7	0.00	0.00	
14,200.0	90.00	356.00	7,572.0	6,509.5	-347.1	6,509.5	0.00	0.00	
14,300.0	90.00	356.00	7,572.0	6,609.3	-354.0	6,609.3	0.00	0.00	
14,400.0	90.00	356.00	7,572.0	6,709.0	-361.0	6,709.0	0.00	0.00	
14,475.9	90.00	356.00	7,572.0	6,784.7	-366.3	6,784.7	0.00	0.00	Start turn to BHL @ 14475' MD
14,500.0	90.00	356.98	7,572.0	6,808.8	-367.8	6,808.8	4.06	0.00	
14,600.0	90.00	1.04	7,572.0	6,908.7	-369.5	6,908.7	4.06	0.00	
14,700.0	90.00	5.10	7,572.0	7,008.6	-364.2	7,008.6	4.06	0.00	
14,800.0	90.00	9.16	7,572.0	7,107.8	-351.7	7,107.8	4.06	0.00	
14,900.0	90.00	13.22	7,572.0	7,205.9	-332.3	7,205.9	4.06	0.00	
15,000.0	90.00	17.28	7,572.0	7,302.3	-306.0	7,302.3	4.06	0.00	
15,100.0	90.00	21.34	7,572.0	7,396.7	-273.0	7,396.7	4.06	0.00	
15,200.0	90.00	25.40	7,572.0	7,488.4	-233.3	7,488.4	4.06	0.00	
15,300.0	90.00	29.46	7,572.0	7,577.2	-187.3	7,577.2	4.06	0.00	
15,333.5	90.00	30.83	7,572.0	7,606.2	-170.4	7,606.2	4.06	0.00	TD at 15333.5 - Jillson-East Rinn 3B-22H-M268

### Targets

#### Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Jillson-East Rinn 3B-22H - plan hits target center - Point	0.00	0.00	7,572.0	7,606.2	-170.4	1,293,806.41	3,140,666.75	40.138790	-104.996890
Jillson-East Rinn 3B-22H - plan hits target center - Point	0.00	0.00	7,572.0	4,140.5	-195.4	1,290,340.65	3,140,661.45	40.129276	-104.996979

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
324.0	324.0	Fox Hills - BASE			
4,346.9	4,340.0	Sussex			
4,626.4	4,619.0	Sussex Marker			
4,893.8	4,886.0	Shannon			
6,510.8	6,500.0	Teepee Buttes (*if present)			
7,208.6	7,193.0	Sharon Springs			
7,299.8	7,276.0	Niobrara			
7,376.0	7,340.0	B Chalk			
7,410.3	7,367.0	B Marl			
7,495.6	7,428.0	C Chalk			
7,529.9	7,450.0	C Marl			
7,724.6	7,542.0	Ft. Hayes			
7,803.7	7,562.0	Codell			

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-22H-M268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

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'
643.6	643.3	-9.2	-4.7	EOB; Inc=3.44°
6,980.3	6,968.8	-346.6	-178.8	Start build/turn @ 6980' MD
7,910.9	7,572.0	225.5	-195.4	LP @ 7572' TVD; 90°
11,825.9	7,572.0	4,140.5	-195.4	Start turn @ 11825' MD
12,225.9	7,572.0	4,540.2	-209.4	End of turn @ 12225' MD
14,475.9	7,572.0	6,784.7	-366.3	Start turn to BHL @ 14475' MD
15,333.5	7,572.0	7,606.2	-170.4	TD at 15333.5

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

**DJ Wattenberg**

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

**Jillson-East Rinn 3B-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 3B-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 3B-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	15,333.5	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 3B-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 3B-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
<b>Offset Well - Wellbore - Design</b>						
S22-T2N-R68W (Jillson-East Rinn)						
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL	11,187.2	7,590.6	440.0	357.8	5.352	CC
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL	11,200.0	7,590.6	440.2	357.8	5.340	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	14,614.5	7,869.9	307.8	168.1	2.204	CC, ES, SF
EAST RINN 15-12 (EXISTING) AL - VESSELS WELL - N	14,623.7	7,473.0	152.1	15.3	1.112	Level 2, CC, ES, SF
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N						Out of range
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR						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	8,592.1	7,850.6	412.0	375.2	11.215	CC
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,600.0	7,850.7	412.1	375.2	11.184	ES
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,700.0	7,851.6	425.9	387.6	11.128	SF
JILLSON 11-22 (EXISTING) - ENCANA WELL - NO SUR	11,834.3	7,482.0	55.8	-32.9	0.629	Level 1, CC, ES, SF
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV						Out of range
JILLSON 12-22 (EXISTING) - ENCANA WELL - NO SUR	10,396.4	7,502.0	201.7	137.6	3.145	CC
JILLSON 12-22 (EXISTING) - ENCANA WELL - NO SUR	10,400.0	7,502.0	201.7	137.5	3.143	ES, SF
JILLSON 14-22 (EXISTING) - ENCANA WELL - NO SUR	7,943.9	7,548.5	229.1	201.2	8.223	CC, ES, SF
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	300.0	272.0	271.2	270.2	283.974	CC, ES
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	4,700.0	4,664.5	495.2	478.7	30.126	SF
JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N						Out of range
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #1	200.0	200.0	8.3	7.6	13.518	CC, ES
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #1	14,900.0	14,672.7	286.1	127.7	1.806	SF
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #1	300.0	301.0	11.3	10.4	11.770	CC, ES
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #1	15,333.5	15,058.2	402.9	215.4	2.149	SF
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	300.0	301.0	19.6	18.6	20.361	CC, ES
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	600.0	600.6	24.7	22.7	12.246	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	9,302.8	7,518.0	270.8	224.7	5.884	CC, ES, SF

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 3B-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 3B-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) - ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL - NO SUR												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 1500-Geolink MWD												<b>Offset Well Error:</b>	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	7,572.0	7,590.6	7,488.0	61.4	19.7	-90.00	3,501.8	-635.4	478.2	399.2	79.01	6.052	
11,100.0	7,572.0	7,590.6	7,488.0	63.1	19.7	-90.00	3,501.8	-635.4	448.6	367.8	80.73	5.557	
11,187.2	7,572.0	7,590.6	7,488.0	64.6	19.7	-90.00	3,501.8	-635.4	440.0	357.8	82.22	5.352 CC	
11,200.0	7,572.0	7,590.6	7,488.0	64.8	19.7	-90.00	3,501.8	-635.4	440.2	357.8	82.44	5.340 ES, SF	
11,300.0	7,572.0	7,590.6	7,488.0	66.6	19.7	-90.00	3,501.8	-635.4	454.3	370.1	84.16	5.398	
11,400.0	7,572.0	7,590.6	7,488.0	68.3	19.7	-90.00	3,501.8	-635.4	488.8	402.9	85.88	5.692	

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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	7,572.0	7,872.1	7,490.3	116.9	37.1	90.71	6,914.5	-61.5	495.6	364.2	131.35	3.773		
14,300.0	7,572.0	7,871.6	7,489.8	118.6	37.1	90.62	6,914.5	-61.5	422.8	289.7	133.09	3.177		
14,400.0	7,572.0	7,871.1	7,489.3	120.3	37.1	90.52	6,914.5	-61.5	363.2	228.4	134.83	2.694		
14,500.0	7,572.0	7,870.6	7,488.7	122.1	37.1	90.43	6,914.5	-61.5	324.0	187.2	136.81	2.368		
14,600.0	7,572.0	7,870.0	7,488.2	123.8	37.1	90.33	6,914.5	-61.5	308.1	168.8	139.33	2.211		
14,614.5	7,572.0	7,869.9	7,488.1	124.1	37.1	90.31	6,914.5	-61.5	307.8	168.1	139.67	2.204	CC, ES, SF	
14,700.0	7,572.0	7,869.4	7,487.6	125.6	37.1	90.21	6,914.5	-61.5	317.0	175.5	141.51	2.240		
14,800.0	7,572.0	7,868.8	7,486.9	127.3	37.1	90.09	6,914.5	-61.5	348.7	205.5	143.26	2.434		
14,900.0	7,572.0	7,868.1	7,486.3	129.0	37.1	89.97	6,914.5	-61.5	397.8	253.3	144.51	2.753		
15,000.0	7,572.0	7,867.4	7,485.6	130.6	37.1	89.86	6,914.5	-61.5	458.5	313.3	145.23	3.157		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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 15-12 (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						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
14,200.0	7,572.0	7,473.0	7,473.0	116.9	13.0	90.00	6,927.2	-216.8	437.5	307.6	129.88	3.368		
14,300.0	7,572.0	7,473.0	7,473.0	118.6	13.0	90.00	6,927.2	-216.8	346.3	214.6	131.63	2.631		
14,400.0	7,572.0	7,473.0	7,473.0	120.3	13.0	90.00	6,927.2	-216.8	261.5	128.1	133.37	1.961		
14,500.0	7,572.0	7,473.0	7,473.0	122.1	13.0	90.00	6,927.2	-216.8	191.8	56.7	135.13	1.420	Level 3	
14,600.0	7,572.0	7,473.0	7,473.0	123.8	13.0	90.00	6,927.2	-216.8	153.8	17.2	136.57	1.126	Level 2	
14,623.7	7,572.0	7,473.0	7,473.0	124.2	13.0	90.00	6,927.2	-216.8	152.1	15.3	136.82	1.112	Level 2, CC, ES, SF	
14,700.0	7,572.0	7,473.0	7,473.0	125.6	13.0	90.00	6,927.2	-216.8	168.3	30.9	137.41	1.225	Level 2	
14,800.0	7,572.0	7,473.0	7,473.0	127.3	13.0	90.00	6,927.2	-216.8	225.5	87.8	137.67	1.638		
14,900.0	7,572.0	7,473.0	7,473.0	129.0	13.0	90.00	6,927.2	-216.8	301.7	164.4	137.32	2.197		
15,000.0	7,572.0	7,473.0	7,473.0	130.6	13.0	90.00	6,927.2	-216.8	385.6	249.2	136.39	2.827		
15,100.0	7,572.0	7,473.0	7,473.0	132.2	13.0	90.00	6,927.2	-216.8	472.9	338.0	134.87	3.506		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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						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		
8,400.0	7,572.0	7,848.7	7,571.7	19.8	32.8	-89.08	906.7	-607.3	454.6	420.4	34.15	13.311		
8,500.0	7,572.0	7,849.7	7,572.7	21.1	32.8	-89.22	906.7	-607.3	422.1	386.7	35.47	11.903		
8,592.1	7,572.0	7,850.6	7,573.6	22.3	32.8	-89.35	906.7	-607.4	412.0	375.2	36.73	11.215 CC		
8,600.0	7,572.0	7,850.7	7,573.7	22.4	32.8	-89.36	906.7	-607.4	412.1	375.2	36.84	11.184 ES		
8,700.0	7,572.0	7,851.6	7,574.7	23.9	32.8	-89.50	906.7	-607.4	425.9	387.6	38.27	11.128 SF		
8,800.0	7,572.0	7,852.6	7,575.7	25.3	32.8	-89.64	906.7	-607.4	461.5	421.7	39.74	11.613		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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						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	
11,400.0	7,572.0	7,482.0	7,482.0	68.3	13.1	90.00	4,149.2	-139.7	438.1	356.8	81.25	5.392	
11,500.0	7,572.0	7,482.0	7,482.0	70.0	13.1	90.00	4,149.2	-139.7	339.1	256.2	82.97	4.088	
11,600.0	7,572.0	7,482.0	7,482.0	71.7	13.1	90.00	4,149.2	-139.7	241.1	156.4	84.69	2.846	
11,700.0	7,572.0	7,482.0	7,482.0	73.4	13.1	90.00	4,149.2	-139.7	145.6	59.2	86.41	1.685	
11,800.0	7,572.0	7,482.0	7,482.0	75.2	13.1	90.00	4,149.2	-139.7	65.6	-22.6	88.14	0.744 Level 1	
11,834.3	7,572.0	7,482.0	7,482.0	75.8	13.1	90.00	4,149.2	-139.7	55.8	-32.9	88.75	0.629 Level 1, CC, ES, SF	
11,900.0	7,572.0	7,482.0	7,482.0	76.9	13.1	90.00	4,149.2	-139.7	86.3	-3.6	89.90	0.960 Level 1	
12,000.0	7,572.0	7,482.0	7,482.0	78.6	13.1	90.00	4,149.2	-139.7	175.4	83.8	91.66	1.914	
12,100.0	7,572.0	7,482.0	7,482.0	80.3	13.1	90.00	4,149.2	-139.7	272.6	179.2	93.40	2.918	
12,200.0	7,572.0	7,482.0	7,482.0	82.1	13.1	90.00	4,149.2	-139.7	371.5	276.4	95.12	3.905	
12,300.0	7,572.0	7,482.0	7,482.0	83.8	13.1	90.00	4,149.2	-139.7	471.0	374.1	96.84	4.863	

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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						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		
10,000.0	7,572.0	7,502.0	7,502.0	44.5	13.1	90.00	2,711.0	6.3	444.7	387.3	57.45	7.741		
10,100.0	7,572.0	7,502.0	7,502.0	46.2	13.1	90.00	2,711.0	6.3	358.5	299.3	59.13	6.063		
10,200.0	7,572.0	7,502.0	7,502.0	47.8	13.1	90.00	2,711.0	6.3	281.5	220.7	60.81	4.629		
10,300.0	7,572.0	7,502.0	7,502.0	49.5	13.1	90.00	2,711.0	6.3	223.5	161.0	62.50	3.576		
10,396.4	7,572.0	7,502.0	7,502.0	51.1	13.1	90.00	2,711.0	6.3	201.7	137.6	64.13	3.145 CC		
10,400.0	7,572.0	7,502.0	7,502.0	51.2	13.1	90.00	2,711.0	6.3	201.7	137.5	64.19	3.143 ES, SF		
10,500.0	7,572.0	7,502.0	7,502.0	52.9	13.1	90.00	2,711.0	6.3	226.8	160.9	65.89	3.442		
10,600.0	7,572.0	7,502.0	7,502.0	54.6	13.1	90.00	2,711.0	6.3	286.6	219.0	67.58	4.241		
10,700.0	7,572.0	7,502.0	7,502.0	56.3	13.1	90.00	2,711.0	6.3	364.5	295.2	69.29	5.261		
10,800.0	7,572.0	7,502.0	7,502.0	58.0	13.1	90.00	2,711.0	6.3	451.2	380.2	70.99	6.356		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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	7.42	258.6	33.7	261.9					
100.0	100.0	76.0	76.0	0.1	0.1	7.42	258.6	33.7	260.8	260.6	0.26	988.960		
200.0	200.0	176.0	176.0	0.3	0.3	7.42	258.6	33.7	260.8	260.2	0.61	425.634		
300.0	300.0	276.0	276.0	0.5	0.5	7.42	258.6	33.7	260.8	259.9	0.96	271.171		
400.0	400.0	376.0	376.0	0.7	0.7	160.20	258.6	33.7	261.7	260.3	1.31	199.598		
500.0	500.0	476.0	476.0	0.8	0.8	160.38	258.6	33.7	264.1	262.5	1.66	159.107		
600.0	599.9	575.9	575.9	1.0	1.0	160.68	258.6	33.7	268.2	266.2	2.01	133.490		
700.0	699.7	675.7	675.7	1.2	1.2	161.08	258.6	33.7	273.7	271.4	2.36	116.016		
800.0	799.5	775.5	775.5	1.4	1.4	161.48	258.6	33.7	279.4	276.7	2.71	103.097		
900.0	899.3	875.3	875.3	1.6	1.5	161.86	258.6	33.7	285.1	282.0	3.06	93.142		
1,000.0	999.2	975.2	975.2	1.8	1.7	162.23	258.6	33.7	290.8	287.4	3.41	85.238		
1,100.0	1,099.0	1,075.0	1,075.0	2.0	1.9	162.58	258.6	33.7	296.5	292.8	3.76	78.813		
1,200.0	1,198.8	1,174.8	1,174.8	2.2	2.1	162.92	258.6	33.7	302.2	298.1	4.11	73.487		
1,300.0	1,298.6	1,274.6	1,274.6	2.4	2.2	163.25	258.6	33.7	308.0	303.5	4.46	69.002		
1,400.0	1,398.4	1,374.4	1,374.4	2.6	2.4	163.56	258.6	33.7	313.7	308.9	4.81	65.173		
1,500.0	1,498.3	1,474.3	1,474.3	2.8	2.6	163.87	258.6	33.7	319.5	314.3	5.16	61.867		
1,600.0	1,598.1	1,574.1	1,574.1	3.0	2.7	164.16	258.6	33.7	325.2	319.7	5.51	58.983		
1,700.0	1,697.9	1,673.9	1,673.9	3.2	2.9	164.44	258.6	33.7	331.0	325.1	5.86	56.446		
1,800.0	1,797.7	1,773.7	1,773.7	3.4	3.1	164.72	258.6	33.7	336.8	330.6	6.21	54.197		
1,900.0	1,897.5	1,873.5	1,873.5	3.6	3.3	164.98	258.6	33.7	342.6	336.0	6.56	52.190		
2,000.0	1,997.4	1,973.4	1,973.4	3.8	3.4	165.24	258.6	33.7	348.4	341.4	6.91	50.387		
2,100.0	2,097.2	2,073.2	2,073.2	4.0	3.6	165.48	258.6	33.7	354.2	346.9	7.26	48.760		
2,200.0	2,197.0	2,173.0	2,173.0	4.2	3.8	165.72	258.6	33.7	360.0	352.3	7.61	47.283		
2,300.0	2,296.8	2,272.8	2,272.8	4.4	4.0	165.95	258.6	33.7	365.8	357.8	7.96	45.937		
2,400.0	2,396.6	2,372.6	2,372.6	4.6	4.1	166.18	258.6	33.7	371.6	363.3	8.31	44.706		
2,500.0	2,496.5	2,472.5	2,472.5	4.8	4.3	166.40	258.6	33.7	377.4	368.8	8.66	43.574		
2,600.0	2,596.3	2,572.3	2,572.3	5.0	4.5	166.61	258.6	33.7	383.2	374.2	9.01	42.532		
2,700.0	2,696.1	2,672.1	2,672.1	5.2	4.7	166.81	258.6	33.7	389.1	379.7	9.36	41.568		
2,800.0	2,795.9	2,771.9	2,771.9	5.4	4.8	167.01	258.6	33.7	394.9	385.2	9.71	40.674		
2,900.0	2,895.7	2,871.7	2,871.7	5.6	5.0	167.20	258.6	33.7	400.8	390.7	10.06	39.842		
3,000.0	2,995.6	2,971.6	2,971.6	5.8	5.2	167.39	258.6	33.7	406.6	396.2	10.41	39.068		
3,100.0	3,095.4	3,071.4	3,071.4	6.1	5.4	167.57	258.6	33.7	412.4	401.7	10.76	38.343		
3,200.0	3,195.2	3,171.2	3,171.2	6.3	5.5	167.75	258.6	33.7	418.3	407.2	11.11	37.665		
3,300.0	3,295.0	3,271.0	3,271.0	6.5	5.7	167.92	258.6	33.7	424.2	412.7	11.45	37.029		
3,400.0	3,394.8	3,370.8	3,370.8	6.7	5.9	168.09	258.6	33.7	430.0	418.2	11.80	36.431		
3,500.0	3,494.7	3,470.7	3,470.7	6.9	6.1	168.25	258.6	33.7	435.9	423.7	12.15	35.868		
3,600.0	3,594.5	3,570.5	3,570.5	7.1	6.2	168.41	258.6	33.7	441.8	429.3	12.50	35.336		
3,700.0	3,694.3	3,670.3	3,670.3	7.3	6.4	168.56	258.6	33.7	447.6	434.8	12.85	34.833		
3,800.0	3,794.1	3,770.1	3,770.1	7.5	6.6	168.71	258.6	33.7	453.5	440.3	13.20	34.358		
3,900.0	3,893.9	3,869.9	3,869.9	7.7	6.8	168.86	258.6	33.7	459.4	445.8	13.55	33.907		
4,000.0	3,993.8	3,969.8	3,969.8	7.9	6.9	169.00	258.6	33.7	465.3	451.4	13.90	33.479		
4,100.0	4,093.6	4,069.6	4,069.6	8.1	7.1	169.14	258.6	33.7	471.2	456.9	14.25	33.073		
4,200.0	4,193.4	4,169.4	4,169.4	8.3	7.3	169.27	258.6	33.7	477.0	462.4	14.59	32.685		
4,300.0	4,293.2	4,269.2	4,269.2	8.5	7.5	169.41	258.6	33.7	482.9	468.0	14.94	32.317		
4,400.0	4,393.0	4,369.0	4,369.0	8.7	7.6	169.54	258.6	33.7	488.8	473.5	15.29	31.965		
4,500.0	4,492.9	4,468.9	4,468.9	8.9	7.8	169.66	258.6	33.7	494.7	479.1	15.64	31.629		
7,500.0	7,430.9	7,406.9	7,406.9	13.7	12.9	41.51	258.6	33.7	467.5	444.6	22.90	20.417		
7,600.0	7,489.7	7,465.7	7,465.7	13.7	13.0	54.15	258.6	33.7	399.6	375.8	23.85	16.754		
7,700.0	7,533.6	7,509.6	7,509.6	13.8	13.1	69.72	258.6	33.7	330.5	305.0	25.55	12.936		
7,800.0	7,561.3	7,537.3	7,537.3	14.2	13.2	83.21	258.6	33.7	270.0	243.2	26.81	10.071		
7,900.0	7,571.9	7,547.9	7,547.9	14.8	13.2	89.79	258.6	33.7	233.3	205.8	27.53	8.474		
7,943.9	7,572.5	7,548.5	7,548.5	15.1	13.2	90.00	258.6	33.7	229.1	201.2	27.86	8.223 CC, ES, SF		

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 3B-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 3B-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	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						
8,000.0	7,572.0	7,548.0	7,548.0	15.5	13.2	90.00	258.6	33.7	235.8	207.5	28.29	8.337					
8,100.0	7,572.0	7,548.0	7,548.0	16.4	13.2	90.00	258.6	33.7	277.2	248.0	29.20	9.491					
8,200.0	7,572.0	7,548.0	7,548.0	17.4	13.2	90.00	258.6	33.7	343.5	313.3	30.25	11.357					
8,300.0	7,572.0	7,548.0	7,548.0	18.6	13.2	90.00	258.6	33.7	423.3	391.9	31.41	13.480					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-11.27	265.9	-53.0	272.6					
100.0	100.0	72.0	72.0	0.1	0.1	-11.27	265.9	-53.0	271.2	270.9	0.26	1,056.091		
200.0	200.0	172.0	172.0	0.3	0.3	-11.27	265.9	-53.0	271.2	270.6	0.61	447.594		
300.0	300.0	272.0	272.0	0.5	0.5	-11.27	265.9	-53.0	271.2	270.2	0.95	283.974 CC, ES		
400.0	400.0	372.0	372.0	0.7	0.6	141.55	265.9	-53.0	271.8	270.5	1.30	208.449		
500.0	500.0	472.0	472.0	0.8	0.8	141.88	265.9	-53.0	273.9	272.2	1.65	165.548		
600.0	599.9	571.9	571.9	1.0	1.0	142.42	265.9	-53.0	277.3	275.3	2.01	138.182		
700.0	699.7	671.7	671.7	1.2	1.2	143.13	265.9	-53.0	282.0	279.6	2.36	119.392		
800.0	799.5	771.5	771.5	1.4	1.3	143.84	265.9	-53.0	286.8	284.1	2.72	105.536		
900.0	899.3	871.3	871.3	1.6	1.5	144.54	265.9	-53.0	291.7	288.6	3.07	94.895		
1,000.0	999.2	971.2	971.2	1.8	1.7	145.21	265.9	-53.0	296.6	293.1	3.43	86.476		
1,100.0	1,099.0	1,071.0	1,071.0	2.0	1.9	145.86	265.9	-53.0	301.5	297.7	3.79	79.654		
1,200.0	1,198.8	1,170.8	1,170.8	2.2	2.0	146.49	265.9	-53.0	306.5	302.4	4.14	74.018		
1,300.0	1,298.6	1,270.6	1,270.6	2.4	2.2	147.10	265.9	-53.0	311.5	307.0	4.50	69.285		
1,400.0	1,398.4	1,370.4	1,370.4	2.6	2.4	147.68	265.9	-53.0	316.6	311.7	4.85	65.257		
1,500.0	1,498.3	1,470.3	1,470.3	2.8	2.6	148.25	265.9	-53.0	321.6	316.4	5.21	61.789		
1,600.0	1,598.1	1,570.1	1,570.1	3.0	2.7	148.81	265.9	-53.0	326.8	321.2	5.56	58.771		
1,700.0	1,697.9	1,669.9	1,669.9	3.2	2.9	149.34	265.9	-53.0	331.9	326.0	5.91	56.123		
1,800.0	1,797.7	1,769.7	1,769.7	3.4	3.1	149.86	265.9	-53.0	337.1	330.8	6.27	53.782		
1,900.0	1,897.5	1,869.5	1,869.5	3.6	3.3	150.37	265.9	-53.0	342.3	335.7	6.62	51.697		
2,000.0	1,997.4	1,969.4	1,969.4	3.8	3.4	150.85	265.9	-53.0	347.5	340.5	6.97	49.829		
2,100.0	2,097.2	2,069.2	2,069.2	4.0	3.6	151.33	265.9	-53.0	352.7	345.4	7.33	48.146		
2,200.0	2,197.0	2,169.0	2,169.0	4.2	3.8	151.79	265.9	-53.0	358.0	350.3	7.68	46.622		
2,300.0	2,296.8	2,268.8	2,268.8	4.4	4.0	152.23	265.9	-53.0	363.3	355.3	8.03	45.237		
2,400.0	2,396.6	2,368.6	2,368.6	4.6	4.1	152.67	265.9	-53.0	368.6	360.2	8.38	43.971		
2,500.0	2,496.5	2,468.5	2,468.5	4.8	4.3	153.09	265.9	-53.0	374.0	365.2	8.74	42.811		
2,600.0	2,596.3	2,568.3	2,568.3	5.0	4.5	153.50	265.9	-53.0	379.3	370.2	9.09	41.744		
2,700.0	2,696.1	2,668.1	2,668.1	5.2	4.7	153.90	265.9	-53.0	384.7	375.3	9.44	40.760		
2,800.0	2,795.9	2,767.9	2,767.9	5.4	4.8	154.28	265.9	-53.0	390.1	380.3	9.79	39.848		
2,900.0	2,895.7	2,867.7	2,867.7	5.6	5.0	154.66	265.9	-53.0	395.5	385.4	10.14	39.003		
3,000.0	2,995.6	2,967.6	2,967.6	5.8	5.2	155.03	265.9	-53.0	400.9	390.4	10.49	38.216		
3,100.0	3,095.4	3,067.4	3,067.4	6.1	5.4	155.38	265.9	-53.0	406.4	395.5	10.84	37.481		
3,200.0	3,195.2	3,167.2	3,167.2	6.3	5.5	155.73	265.9	-53.0	411.8	400.6	11.19	36.795		
3,300.0	3,295.0	3,267.0	3,267.0	6.5	5.7	156.07	265.9	-53.0	417.3	405.7	11.54	36.152		
3,400.0	3,394.8	3,366.8	3,366.8	6.7	5.9	156.40	265.9	-53.0	422.8	410.9	11.89	35.549		
3,500.0	3,494.7	3,466.7	3,466.7	6.9	6.1	156.72	265.9	-53.0	428.3	416.0	12.24	34.982		
3,600.0	3,594.5	3,566.5	3,566.5	7.1	6.2	157.03	265.9	-53.0	433.8	421.2	12.59	34.447		
3,700.0	3,694.3	3,666.3	3,666.3	7.3	6.4	157.34	265.9	-53.0	439.3	426.4	12.94	33.943		
3,800.0	3,794.1	3,766.1	3,766.1	7.5	6.6	157.63	265.9	-53.0	444.9	431.6	13.29	33.466		
3,900.0	3,893.9	3,865.9	3,865.9	7.7	6.7	157.92	265.9	-53.0	450.4	436.8	13.64	33.015		
4,000.0	3,993.8	3,965.8	3,965.8	7.9	6.9	158.21	265.9	-53.0	456.0	442.0	13.99	32.588		
4,100.0	4,093.6	4,065.6	4,065.6	8.1	7.1	158.48	265.9	-53.0	461.5	447.2	14.34	32.182		
4,200.0	4,193.4	4,165.4	4,165.4	8.3	7.3	158.75	265.9	-53.0	467.1	452.4	14.69	31.797		
4,300.0	4,293.2	4,265.2	4,265.2	8.5	7.4	159.02	265.9	-53.0	472.7	457.7	15.04	31.430		
4,400.0	4,393.0	4,365.0	4,365.0	8.7	7.6	159.27	265.9	-53.0	478.3	462.9	15.39	31.081		
4,500.0	4,492.9	4,464.9	4,464.9	8.9	7.8	159.52	265.9	-53.0	483.9	468.2	15.74	30.748		
4,600.0	4,592.7	4,564.7	4,564.7	9.1	8.0	159.77	265.9	-53.0	489.5	473.4	16.09	30.430		
4,700.0	4,692.5	4,664.5	4,664.5	9.3	8.1	160.01	265.9	-53.0	495.2	478.7	16.44	30.126 SF		

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 3B-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 3B-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 3A-22H-M268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-8.3	8.3					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	-8.3	8.3	8.0	0.26	31.542	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-8.3	8.3	7.6	0.61	13.518		
300.0	300.0	299.9	299.9	0.5	0.5	-93.95	-0.6	-8.9	8.9	7.9	0.96	9.264		
400.0	400.0	399.7	399.7	0.7	0.7	53.36	-2.5	-10.7	10.4	9.1	1.31	7.967		
500.0	500.0	499.6	499.4	0.8	0.8	51.22	-5.6	-13.8	12.4	10.8	1.67	7.451		
600.0	599.9	599.3	599.0	1.0	1.0	51.21	-9.9	-18.0	14.7	12.7	2.03	7.265		
700.0	699.7	699.2	698.6	1.2	1.3	52.40	-15.2	-23.3	17.3	14.9	2.40	7.212		
800.0	799.5	799.2	798.3	1.4	1.5	53.46	-20.6	-28.6	19.9	17.1	2.78	7.162		
900.0	899.3	899.1	898.0	1.6	1.7	54.28	-26.1	-34.0	22.5	19.4	3.16	7.119		
1,000.0	999.2	999.1	997.6	1.8	1.9	54.93	-31.5	-39.4	25.1	21.6	3.55	7.081		
1,100.0	1,099.0	1,099.1	1,097.3	2.0	2.1	55.45	-36.9	-44.7	27.7	23.8	3.93	7.048		
1,200.0	1,198.8	1,199.0	1,197.0	2.2	2.3	55.89	-42.3	-50.1	30.3	26.0	4.32	7.019		
1,300.0	1,298.6	1,299.0	1,296.7	2.4	2.5	56.25	-47.7	-55.4	32.9	28.2	4.71	6.994		
1,400.0	1,398.4	1,399.0	1,396.3	2.6	2.8	56.57	-53.2	-60.8	35.5	30.4	5.10	6.971		
1,500.0	1,498.3	1,498.9	1,496.0	2.8	3.0	56.84	-58.6	-66.1	38.1	32.6	5.49	6.951		
1,600.0	1,598.1	1,598.9	1,595.7	3.0	3.2	57.07	-64.0	-71.5	40.7	34.9	5.88	6.934		
1,700.0	1,697.9	1,698.9	1,695.4	3.2	3.4	57.28	-69.4	-76.8	43.3	37.1	6.27	6.918		
1,800.0	1,797.7	1,798.8	1,795.0	3.4	3.6	57.46	-74.8	-82.2	46.0	39.3	6.66	6.903		
1,900.0	1,897.5	1,898.8	1,894.7	3.6	3.9	57.63	-80.3	-87.5	48.6	41.5	7.05	6.890		
2,000.0	1,997.4	1,998.8	1,994.4	3.8	4.1	57.77	-85.7	-92.9	51.2	43.7	7.44	6.879		
2,100.0	2,097.2	2,098.7	2,094.1	4.0	4.3	57.91	-91.1	-98.2	53.8	46.0	7.83	6.868		
2,200.0	2,197.0	2,198.7	2,193.7	4.2	4.5	58.03	-96.5	-103.6	56.4	48.2	8.22	6.858		
2,300.0	2,296.8	2,298.7	2,293.4	4.4	4.7	58.14	-101.9	-109.0	59.0	50.4	8.62	6.849		
2,400.0	2,396.6	2,398.6	2,393.1	4.6	4.9	58.24	-107.4	-114.3	61.6	52.6	9.01	6.841		
2,500.0	2,496.5	2,498.6	2,492.8	4.8	5.2	58.33	-112.8	-119.7	64.2	54.8	9.40	6.833		
2,600.0	2,596.3	2,598.6	2,592.4	5.0	5.4	58.41	-118.2	-125.0	66.8	57.0	9.79	6.826		
2,700.0	2,696.1	2,698.5	2,692.1	5.2	5.6	58.49	-123.6	-130.4	69.4	59.3	10.18	6.819		
2,800.0	2,795.9	2,798.5	2,791.8	5.4	5.8	58.57	-129.1	-135.7	72.1	61.5	10.58	6.813		
2,900.0	2,895.7	2,898.5	2,891.5	5.6	6.0	58.63	-134.5	-141.1	74.7	63.7	10.97	6.807		
3,000.0	2,995.6	2,998.4	2,991.1	5.8	6.3	58.70	-139.9	-146.4	77.3	65.9	11.36	6.801		
3,100.0	3,095.4	3,098.4	3,090.8	6.1	6.5	58.76	-145.3	-151.8	79.9	68.1	11.76	6.796		
3,200.0	3,195.2	3,198.4	3,190.5	6.3	6.7	58.81	-150.7	-157.1	82.5	70.4	12.15	6.791		
3,300.0	3,295.0	3,298.3	3,290.2	6.5	6.9	58.86	-156.2	-162.5	85.1	72.6	12.54	6.787		
3,400.0	3,394.8	3,398.3	3,389.8	6.7	7.1	58.91	-161.6	-167.8	87.7	74.8	12.93	6.782		
3,500.0	3,494.7	3,498.3	3,489.5	6.9	7.4	58.96	-167.0	-173.2	90.3	77.0	13.33	6.778		
3,600.0	3,594.5	3,598.2	3,589.2	7.1	7.6	59.00	-172.4	-178.6	92.9	79.2	13.72	6.775		
3,700.0	3,694.3	3,698.2	3,688.9	7.3	7.8	59.04	-177.8	-183.9	95.6	81.4	14.11	6.771		
3,800.0	3,794.1	3,798.2	3,788.5	7.5	8.0	59.08	-183.3	-189.3	98.2	83.7	14.51	6.767		
3,900.0	3,893.9	3,898.1	3,888.2	7.7	8.2	59.12	-188.7	-194.6	100.8	85.9	14.90	6.764		
4,000.0	3,993.8	3,998.1	3,987.9	7.9	8.5	59.16	-194.1	-200.0	103.4	88.1	15.29	6.761		
4,100.0	4,093.6	4,098.1	4,087.6	8.1	8.7	59.19	-199.5	-205.3	106.0	90.3	15.69	6.758		
4,200.0	4,193.4	4,198.0	4,187.2	8.3	8.9	59.22	-204.9	-210.7	108.6	92.5	16.08	6.755		
4,300.0	4,293.2	4,298.0	4,286.9	8.5	9.1	59.25	-210.4	-216.0	111.2	94.8	16.47	6.752		
4,400.0	4,393.0	4,398.0	4,386.6	8.7	9.3	59.28	-215.8	-221.4	113.8	97.0	16.87	6.750		
4,500.0	4,492.9	4,497.9	4,486.3	8.9	9.5	59.31	-221.2	-226.7	116.5	99.2	17.26	6.747		
4,600.0	4,592.7	4,597.9	4,585.9	9.1	9.8	59.33	-226.6	-232.1	119.1	101.4	17.65	6.745		
4,700.0	4,692.5	4,697.9	4,685.6	9.3	10.0	59.36	-232.0	-237.4	121.7	103.6	18.05	6.743		
4,800.0	4,792.3	4,797.8	4,785.3	9.5	10.2	59.38	-237.5	-242.8	124.3	105.8	18.44	6.741		
4,900.0	4,892.1	4,897.8	4,885.0	9.7	10.4	59.41	-242.9	-248.1	126.9	108.1	18.83	6.738		
5,000.0	4,992.0	4,997.7	4,984.6	9.9	10.6	59.43	-248.3	-253.5	129.5	110.3	19.23	6.736		
5,100.0	5,091.8	5,097.7	5,084.3	10.1	10.9	59.45	-253.7	-258.9	132.1	112.5	19.62	6.734		

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 3B-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 3B-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 3A-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	5,191.6	5,197.7	5,184.0	10.3	11.1	59.47	-259.1	-264.2	134.7	114.7	20.01	6.733		
5,300.0	5,291.4	5,297.6	5,283.7	10.5	11.3	59.49	-264.6	-269.6	137.3	116.9	20.41	6.731		
5,400.0	5,391.2	5,397.6	5,383.3	10.7	11.5	59.51	-270.0	-274.9	140.0	119.2	20.80	6.729		
5,500.0	5,491.1	5,497.6	5,483.0	10.9	11.7	59.53	-275.4	-280.3	142.6	121.4	21.19	6.727		
5,600.0	5,590.9	5,597.5	5,582.7	11.1	12.0	59.55	-280.8	-285.6	145.2	123.6	21.59	6.726		
5,700.0	5,690.7	5,697.5	5,682.4	11.3	12.2	59.56	-286.2	-291.0	147.8	125.8	21.98	6.724		
5,800.0	5,790.5	5,797.5	5,782.0	11.5	12.4	59.58	-291.7	-296.3	150.4	128.0	22.37	6.723		
5,900.0	5,890.3	5,897.4	5,881.7	11.7	12.6	59.59	-297.1	-301.7	153.0	130.3	22.77	6.721		
6,000.0	5,990.2	5,997.4	5,981.4	11.9	12.8	59.61	-302.5	-307.0	155.6	132.5	23.16	6.720		
6,100.0	6,090.0	6,097.4	6,081.1	12.2	13.1	59.62	-307.9	-312.4	158.2	134.7	23.55	6.718		
6,200.0	6,189.8	6,197.3	6,180.7	12.4	13.3	59.64	-313.4	-317.7	160.9	136.9	23.95	6.717		
6,300.0	6,289.6	6,297.3	6,280.4	12.6	13.5	59.65	-318.8	-323.1	163.5	139.1	24.34	6.716		
6,400.0	6,389.4	6,397.3	6,380.1	12.8	13.7	59.67	-324.2	-328.5	166.1	141.3	24.73	6.715		
6,500.0	6,489.3	6,497.2	6,479.8	13.0	13.9	59.68	-329.6	-333.8	168.7	143.6	25.13	6.713		
6,600.0	6,589.1	6,597.2	6,579.4	13.2	14.2	59.69	-335.0	-339.2	171.3	145.8	25.52	6.712		
6,700.0	6,688.9	6,697.2	6,679.1	13.4	14.4	59.70	-340.5	-344.5	173.9	148.0	25.91	6.711		
6,800.0	6,788.7	6,797.4	6,779.1	13.6	14.6	60.00	-345.0	-349.9	176.5	150.2	26.32	6.707		
6,900.0	6,888.6	6,896.1	6,877.2	13.8	14.7	64.46	-336.4	-355.4	179.3	152.4	26.89	6.668		
7,000.0	6,988.4	6,987.8	6,965.6	14.0	14.7	45.05	-313.5	-360.6	185.8	158.3	27.57	6.742		
7,100.0	7,088.0	7,073.6	7,044.2	14.1	14.6	-60.15	-279.4	-365.5	198.3	170.4	27.91	7.104		
7,200.0	7,184.9	7,156.0	7,114.0	14.0	14.5	-57.65	-236.1	-370.1	214.2	186.5	27.70	7.731		
7,300.0	7,276.2	7,235.7	7,175.0	13.9	14.4	-53.13	-185.0	-374.3	231.4	204.4	26.98	8.577		
7,400.0	7,359.0	7,313.3	7,226.9	13.8	14.4	-49.18	-127.5	-378.2	248.3	222.4	25.87	9.596		
7,500.0	7,430.9	7,389.3	7,269.9	13.7	14.5	-46.09	-65.0	-381.6	263.6	239.0	24.58	10.724		
7,600.0	7,489.7	7,464.1	7,303.7	13.7	14.6	-43.84	1.6	-384.6	276.5	253.1	23.38	11.827		
7,700.0	7,533.6	7,538.0	7,328.3	13.8	14.8	-42.35	71.1	-387.2	286.4	263.9	22.52	12.719		
7,800.0	7,561.3	7,611.3	7,343.7	14.2	15.1	-41.54	142.8	-389.3	292.9	270.6	22.31	13.127		
7,900.0	7,571.9	7,684.4	7,349.9	14.8	15.5	-41.37	215.6	-390.9	295.8	272.9	22.95	12.892		
8,000.0	7,572.0	7,780.1	7,350.0	15.5	16.2	-41.61	311.2	-392.6	296.9	272.9	24.07	12.338		
8,100.0	7,572.0	7,880.1	7,350.0	16.4	17.1	-41.86	411.2	-394.3	298.1	272.7	25.36	11.753		
8,200.0	7,572.0	7,980.1	7,350.0	17.4	18.1	-42.11	511.1	-396.1	299.3	272.4	26.82	11.158		
8,300.0	7,572.0	8,080.0	7,350.0	18.6	19.2	-42.36	611.1	-397.8	300.4	272.0	28.42	10.571		
8,400.0	7,572.0	8,180.0	7,350.0	19.8	20.3	-42.60	711.1	-399.5	301.6	271.5	30.15	10.005		
8,500.0	7,572.0	8,280.0	7,350.0	21.1	21.6	-42.84	811.0	-401.3	302.8	270.8	31.98	9.468		
8,600.0	7,572.0	8,380.0	7,350.0	22.4	22.9	-43.08	911.0	-403.0	304.0	270.1	33.91	8.964		
8,700.0	7,572.0	8,480.0	7,350.0	23.9	24.3	-43.32	1,011.0	-404.8	305.2	269.3	35.93	8.495		
8,800.0	7,572.0	8,580.0	7,350.0	25.3	25.8	-43.56	1,110.9	-406.5	306.4	268.4	38.02	8.059		
8,900.0	7,572.0	8,680.0	7,350.0	26.8	27.2	-43.80	1,210.9	-408.3	307.6	267.4	40.17	7.657		
9,000.0	7,572.0	8,779.9	7,350.0	28.3	28.7	-44.03	1,310.9	-410.0	308.8	266.4	42.39	7.285		
9,100.0	7,572.0	8,879.9	7,350.0	29.9	30.3	-44.26	1,410.9	-411.8	310.0	265.4	44.65	6.943		
9,200.0	7,572.0	8,979.9	7,350.0	31.4	31.8	-44.49	1,510.8	-413.5	311.2	264.3	46.97	6.626		
9,300.0	7,572.0	9,079.9	7,350.0	33.0	33.4	-44.72	1,610.8	-415.2	312.5	263.1	49.33	6.334		
9,400.0	7,572.0	9,179.9	7,350.0	34.6	35.0	-44.95	1,710.8	-417.0	313.7	262.0	51.74	6.063		
9,500.0	7,572.0	9,279.9	7,350.0	36.2	36.6	-45.17	1,810.7	-418.7	314.9	260.7	54.18	5.813		
9,600.0	7,572.0	9,379.8	7,350.0	37.9	38.2	-45.39	1,910.7	-420.5	316.2	259.5	56.65	5.581		
9,700.0	7,572.0	9,479.8	7,350.0	39.5	39.8	-45.62	2,010.7	-422.2	317.4	258.3	59.16	5.365		
9,800.0	7,572.0	9,579.8	7,350.0	41.2	41.5	-45.84	2,110.6	-424.0	318.7	257.0	61.70	5.165		
9,900.0	7,572.0	9,679.8	7,350.0	42.8	43.1	-46.05	2,210.6	-425.7	319.9	255.6	64.27	4.978		
10,000.0	7,572.0	9,779.8	7,350.0	44.5	44.8	-46.27	2,310.6	-427.5	321.2	254.3	66.86	4.804		
10,100.0	7,572.0	9,879.8	7,350.0	46.2	46.4	-46.48	2,410.5	-429.2	322.4	253.0	69.48	4.641		
10,200.0	7,572.0	9,979.8	7,350.0	47.8	48.1	-46.70	2,510.5	-431.0	323.7	251.6	72.12	4.488		
10,300.0	7,572.0	10,079.7	7,350.0	49.5	49.8	-46.91	2,610.5	-432.7	325.0	250.2	74.79	4.345		

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 3B-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 3B-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 3A-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				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.0	7,572.0	10,179.7	7,350.0	51.2	51.4	-47.12	2,710.5	-434.4	326.3	248.8	77.48	4.211	
10,500.0	7,572.0	10,279.7	7,350.0	52.9	53.1	-47.32	2,810.4	-436.2	327.5	247.3	80.19	4.084	
10,600.0	7,572.0	10,379.7	7,350.0	54.6	54.8	-47.53	2,910.4	-437.9	328.8	245.9	82.93	3.965	
10,700.0	7,572.0	10,479.7	7,350.0	56.3	56.5	-47.74	3,010.4	-439.7	330.1	244.4	85.68	3.853	
10,800.0	7,572.0	10,579.7	7,350.0	58.0	58.2	-47.94	3,110.3	-441.4	331.4	243.0	88.45	3.747	
10,900.0	7,572.0	10,679.6	7,350.0	59.7	59.9	-48.14	3,210.3	-443.2	332.7	241.5	91.24	3.647	
11,000.0	7,572.0	10,779.6	7,350.0	61.4	61.6	-48.34	3,310.3	-444.9	334.0	240.0	94.04	3.552	
11,100.0	7,572.0	10,879.6	7,350.0	63.1	63.3	-48.54	3,410.2	-446.7	335.3	238.4	96.87	3.462	
11,200.0	7,572.0	10,979.6	7,350.0	64.8	65.0	-48.73	3,510.2	-448.4	336.6	236.9	99.71	3.376	
11,300.0	7,572.0	11,079.6	7,350.0	66.6	66.7	-48.93	3,610.2	-450.1	337.9	235.4	102.56	3.295	
11,400.0	7,572.0	11,179.6	7,350.0	68.3	68.5	-49.12	3,710.2	-451.9	339.3	233.8	105.43	3.218	
11,500.0	7,572.0	11,279.6	7,350.0	70.0	70.2	-49.31	3,810.1	-453.6	340.6	232.3	108.32	3.144	
11,600.0	7,572.0	11,379.5	7,350.0	71.7	71.9	-49.51	3,910.1	-455.4	341.9	230.7	111.22	3.074	
11,700.0	7,572.0	11,479.5	7,350.0	73.4	73.6	-49.69	4,010.1	-457.1	343.2	229.1	114.13	3.007	
11,800.0	7,572.0	11,579.5	7,350.0	75.2	75.3	-49.88	4,110.0	-458.9	344.6	227.5	117.06	2.943	
11,900.0	7,572.0	11,679.5	7,350.0	76.9	77.0	-50.02	4,210.0	-460.6	345.5	225.5	120.01	2.879	
12,000.0	7,572.0	11,779.5	7,350.0	78.6	78.8	-49.97	4,310.0	-462.4	345.2	222.5	122.68	2.814	
12,100.0	7,572.0	11,879.5	7,350.0	80.3	80.5	-49.73	4,409.9	-464.1	343.5	218.6	124.97	2.749	
12,200.0	7,572.0	11,979.4	7,350.0	82.1	82.2	-49.29	4,509.9	-465.8	340.6	213.7	126.86	2.685	
12,300.0	7,572.0	12,079.3	7,350.0	83.8	83.9	-48.71	4,609.7	-467.6	336.7	208.2	128.45	2.621	
12,400.0	7,572.0	12,179.1	7,350.0	85.5	85.7	-48.11	4,709.6	-469.3	332.8	202.8	129.96	2.560	
12,500.0	7,572.0	12,279.0	7,350.0	87.3	87.4	-47.50	4,809.4	-471.1	328.9	197.5	131.38	2.503	
12,600.0	7,572.0	12,378.9	7,350.0	89.0	89.1	-46.88	4,909.2	-472.8	325.0	192.3	132.72	2.449	
12,700.0	7,572.0	12,478.7	7,350.0	90.7	90.9	-46.24	5,009.1	-474.6	321.2	187.3	133.96	2.398	
12,800.0	7,572.0	12,578.6	7,350.0	92.5	92.6	-45.59	5,108.9	-476.3	317.5	182.4	135.10	2.350	
12,900.0	7,572.0	12,678.4	7,350.0	94.2	94.3	-44.92	5,208.8	-478.0	313.7	177.6	136.15	2.304	
13,000.0	7,572.0	12,778.3	7,350.0	96.0	96.0	-44.24	5,308.6	-479.8	310.1	173.0	137.08	2.262	
13,100.0	7,572.0	12,878.2	7,350.0	97.7	97.8	-43.54	5,408.5	-481.5	306.4	168.5	137.91	2.222	
13,200.0	7,572.0	12,978.0	7,350.0	99.4	99.5	-42.82	5,508.3	-483.3	302.9	164.2	138.61	2.185	
13,300.0	7,572.0	13,077.9	7,350.0	101.2	101.2	-42.09	5,608.2	-485.0	299.3	160.1	139.20	2.150	
13,400.0	7,572.0	13,177.8	7,350.0	102.9	103.0	-41.33	5,708.0	-486.8	295.8	156.2	139.66	2.118	
13,500.0	7,572.0	13,277.6	7,350.0	104.7	104.7	-40.56	5,807.9	-488.5	292.4	152.4	139.99	2.089	
13,600.0	7,572.0	13,377.5	7,350.0	106.4	106.5	-39.78	5,907.7	-490.2	289.0	148.8	140.18	2.062	
13,700.0	7,572.0	13,477.3	7,350.0	108.1	108.2	-38.97	6,007.6	-492.0	285.7	145.5	140.23	2.037	
13,800.0	7,572.0	13,577.2	7,350.0	109.9	109.9	-38.15	6,107.4	-493.7	282.4	142.3	140.13	2.016	
13,900.0	7,572.0	13,677.1	7,350.0	111.6	111.7	-37.30	6,207.3	-495.5	279.2	139.4	139.88	1.996	
14,000.0	7,572.0	13,776.9	7,350.0	113.4	113.4	-36.44	6,307.1	-497.2	276.1	136.6	139.46	1.980	
14,100.0	7,572.0	13,876.8	7,350.0	115.1	115.1	-35.56	6,407.0	-499.0	273.0	134.1	138.89	1.966	
14,200.0	7,572.0	13,976.7	7,350.0	116.9	116.9	-34.65	6,506.8	-500.7	270.0	131.9	138.14	1.955	
14,300.0	7,572.0	14,076.5	7,350.0	118.6	118.6	-33.73	6,606.7	-502.4	267.0	129.8	137.22	1.946	
14,400.0	7,572.0	14,176.4	7,350.0	120.3	120.4	-32.79	6,706.5	-504.2	264.2	128.1	136.11	1.941	
14,500.0	7,572.0	14,276.3	7,350.0	122.1	122.1	-31.88	6,806.4	-505.9	261.5	126.4	135.04	1.936	
14,549.8	7,572.0	14,326.0	7,350.0	123.0	123.0	-31.73	6,856.1	-506.8	261.0	125.6	135.40	1.928	
14,600.0	7,572.0	14,376.2	7,350.0	123.8	123.8	-31.88	6,906.3	-507.7	261.5	124.9	136.62	1.914	
14,700.0	7,572.0	14,476.0	7,350.0	125.6	125.6	-33.05	7,006.0	-509.4	265.3	123.8	141.52	1.875	
14,800.0	7,572.0	14,574.9	7,350.0	127.3	127.3	-35.25	7,105.0	-511.1	273.3	124.1	149.17	1.832	
14,900.0	7,572.0	14,672.7	7,350.0	129.0	129.0	-38.25	7,202.7	-512.9	286.1	127.7	158.44	1.806 SF	
15,000.0	7,572.0	14,768.6	7,350.0	130.6	130.7	-41.73	7,298.7	-514.5	304.6	136.7	167.90	1.814	
15,100.0	7,572.0	14,862.4	7,350.0	132.2	132.3	-45.38	7,392.4	-516.2	329.3	153.1	176.20	1.869	
15,200.0	7,572.0	14,953.5	7,350.0	133.8	133.9	-48.94	7,483.5	-517.8	360.8	178.5	182.33	1.979	
15,300.0	7,572.0	15,041.4	7,350.0	135.4	135.4	-52.20	7,571.4	-519.3	399.5	213.7	185.77	2.150	
15,333.5	7,572.0	15,070.1	7,350.0	135.9	135.9	-53.21	7,600.1	-519.8	414.0	227.7	186.29	2.222	

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 3B-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 3B-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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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: 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	1.0	1.0	0.0	0.0	90.05	0.0	11.3	11.3					
100.0	100.0	101.0	101.0	0.1	0.1	90.05	0.0	11.3	11.3	11.1	0.26	42.950	CC, ES	
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	11.3	11.3	10.7	0.61	18.477		
300.0	300.0	301.0	301.0	0.5	0.5	90.05	0.0	11.3	11.3	10.4	0.96	11.770		
400.0	400.0	401.0	401.0	0.7	0.7	-121.02	0.0	11.3	11.7	10.4	1.31	8.957		
500.0	500.0	501.0	501.0	0.8	0.8	-130.73	0.0	11.3	13.3	11.6	1.66	7.991		
600.0	599.9	600.9	600.9	1.0	1.0	-142.29	0.0	11.3	16.5	14.5	2.01	8.176		
700.0	699.7	700.8	700.8	1.2	1.2	-149.53	-0.8	11.7	21.2	18.8	2.37	8.967		
800.0	799.5	800.7	800.7	1.4	1.4	-150.52	-3.3	12.7	25.9	23.2	2.72	9.530		
900.0	899.3	900.7	900.6	1.6	1.5	-147.97	-7.3	14.3	30.4	27.3	3.09	9.839		
1,000.0	999.2	1,000.6	1,000.3	1.8	1.7	-143.60	-12.7	16.6	34.7	31.3	3.46	10.024		
1,100.0	1,099.0	1,100.5	1,100.0	2.0	1.9	-139.93	-18.3	18.9	39.2	35.4	3.85	10.197		
1,200.0	1,198.8	1,200.3	1,199.7	2.2	2.1	-137.02	-23.9	21.3	43.9	39.6	4.23	10.360		
1,300.0	1,298.6	1,300.2	1,299.4	2.4	2.3	-134.67	-29.5	23.6	48.6	44.0	4.62	10.509		
1,400.0	1,398.4	1,400.1	1,399.0	2.6	2.5	-132.74	-35.1	25.9	53.4	48.4	5.01	10.644		
1,500.0	1,498.3	1,500.0	1,498.7	2.8	2.7	-131.13	-40.8	28.3	58.2	52.8	5.41	10.767		
1,600.0	1,598.1	1,599.8	1,598.4	3.0	2.9	-129.77	-46.4	30.6	63.1	57.3	5.80	10.878		
1,700.0	1,697.9	1,699.7	1,698.1	3.2	3.1	-128.61	-52.0	32.9	68.0	61.8	6.19	10.978		
1,800.0	1,797.7	1,799.6	1,797.8	3.4	3.3	-127.60	-57.6	35.3	72.9	66.4	6.59	11.070		
1,900.0	1,897.5	1,899.4	1,897.5	3.6	3.5	-126.72	-63.2	37.6	77.9	70.9	6.98	11.153		
2,000.0	1,997.4	1,999.3	1,997.2	3.8	3.7	-125.94	-68.8	39.9	82.9	75.5	7.38	11.228		
2,100.0	2,097.2	2,099.2	2,096.8	4.0	3.9	-125.25	-74.4	42.2	87.9	80.1	7.78	11.298		
2,200.0	2,197.0	2,199.1	2,196.5	4.2	4.1	-124.64	-80.0	44.6	92.8	84.7	8.17	11.362		
2,300.0	2,296.8	2,298.9	2,296.2	4.4	4.3	-124.09	-85.6	46.9	97.9	89.3	8.57	11.420		
2,400.0	2,396.6	2,398.8	2,395.9	4.6	4.5	-123.59	-91.2	49.2	102.9	93.9	8.96	11.474		
2,500.0	2,496.5	2,498.7	2,495.6	4.8	4.7	-123.14	-96.8	51.6	107.9	98.5	9.36	11.525		
2,600.0	2,596.3	2,598.5	2,595.3	5.0	4.9	-122.73	-102.4	53.9	112.9	103.2	9.76	11.571		
2,700.0	2,696.1	2,698.4	2,694.9	5.2	5.1	-122.36	-108.0	56.2	117.9	107.8	10.15	11.615		
2,800.0	2,795.9	2,798.3	2,794.6	5.4	5.3	-122.01	-113.7	58.6	123.0	112.4	10.55	11.655		
2,900.0	2,895.7	2,898.1	2,894.3	5.6	5.5	-121.69	-119.3	60.9	128.0	117.1	10.95	11.693		
3,000.0	2,995.6	2,998.0	2,994.0	5.8	5.7	-121.40	-124.9	63.2	133.1	121.7	11.35	11.729		
3,100.0	3,095.4	3,097.9	3,093.7	6.1	5.9	-121.13	-130.5	65.6	138.1	126.4	11.74	11.762		
3,200.0	3,195.2	3,197.8	3,193.4	6.3	6.1	-120.87	-136.1	67.9	143.2	131.0	12.14	11.793		
3,300.0	3,295.0	3,297.6	3,293.1	6.5	6.3	-120.64	-141.7	70.2	148.2	135.7	12.54	11.823		
3,400.0	3,394.8	3,397.5	3,392.7	6.7	6.5	-120.42	-147.3	72.6	153.3	140.3	12.93	11.851		
3,500.0	3,494.7	3,497.4	3,492.4	6.9	6.7	-120.21	-152.9	74.9	158.3	145.0	13.33	11.877		
3,600.0	3,594.5	3,597.2	3,592.1	7.1	6.9	-120.02	-158.5	77.2	163.4	149.7	13.73	11.902		
3,700.0	3,694.3	3,697.1	3,691.8	7.3	7.1	-119.84	-164.1	79.5	168.4	154.3	14.13	11.925		
3,800.0	3,794.1	3,797.0	3,791.5	7.5	7.3	-119.67	-169.7	81.9	173.5	159.0	14.52	11.948		
3,900.0	3,893.9	3,896.8	3,891.2	7.7	7.5	-119.50	-175.3	84.2	178.6	163.7	14.92	11.969		
4,000.0	3,993.8	3,996.7	3,990.9	7.9	7.8	-119.35	-180.9	86.5	183.6	168.3	15.32	11.989		
4,100.0	4,093.6	4,096.6	4,090.5	8.1	8.0	-119.21	-186.6	88.9	188.7	173.0	15.71	12.009		
4,200.0	4,193.4	4,196.5	4,190.2	8.3	8.2	-119.07	-192.2	91.2	193.8	177.7	16.11	12.027		
4,300.0	4,293.2	4,296.3	4,289.9	8.5	8.4	-118.94	-197.8	93.5	198.8	182.3	16.51	12.044		
4,400.0	4,393.0	4,396.2	4,389.6	8.7	8.6	-118.82	-203.4	95.9	203.9	187.0	16.91	12.061		
4,500.0	4,492.9	4,496.1	4,489.3	8.9	8.8	-118.70	-209.0	98.2	209.0	191.7	17.30	12.077		
4,600.0	4,592.7	4,595.9	4,589.0	9.1	9.0	-118.59	-214.6	100.5	214.0	196.3	17.70	12.093		
4,700.0	4,692.5	4,695.8	4,688.7	9.3	9.2	-118.48	-220.2	102.9	219.1	201.0	18.10	12.107		
4,800.0	4,792.3	4,795.7	4,788.3	9.5	9.4	-118.38	-225.8	105.2	224.2	205.7	18.50	12.122		
4,900.0	4,892.1	4,895.6	4,888.0	9.7	9.6	-118.28	-231.4	107.5	229.3	210.4	18.89	12.135		
5,000.0	4,992.0	4,995.4	4,987.7	9.9	9.8	-118.19	-237.0	109.8	234.3	215.1	19.29	12.148		
5,100.0	5,091.8	5,095.3	5,087.4	10.1	10.0	-118.10	-242.6	112.2	239.4	219.7	19.69	12.161		

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 3B-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 3B-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: 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	5,191.6	5,195.2	5,187.1	10.3	10.2	-118.01	-248.2	114.5	244.5	224.4	20.08	12.173		
5,300.0	5,291.4	5,295.0	5,286.8	10.5	10.4	-117.93	-253.8	116.8	249.6	229.1	20.48	12.184		
5,400.0	5,391.2	5,394.9	5,386.5	10.7	10.6	-117.85	-259.4	119.2	254.6	233.8	20.88	12.196		
5,500.0	5,491.1	5,494.8	5,486.1	10.9	10.8	-117.78	-265.1	121.5	259.7	238.4	21.28	12.206		
5,600.0	5,590.9	5,594.6	5,585.8	11.1	11.0	-117.71	-270.7	123.8	264.8	243.1	21.67	12.217		
5,700.0	5,690.7	5,694.5	5,685.5	11.3	11.2	-117.64	-276.3	126.2	269.9	247.8	22.07	12.227		
5,800.0	5,790.5	5,794.4	5,785.2	11.5	11.4	-117.57	-281.9	128.5	275.0	252.5	22.47	12.237		
5,900.0	5,890.3	5,894.3	5,884.9	11.7	11.6	-117.50	-287.5	130.8	280.0	257.2	22.87	12.246		
6,000.0	5,990.2	5,994.1	5,984.6	11.9	11.8	-117.44	-293.1	133.2	285.1	261.8	23.26	12.255		
6,100.0	6,090.0	6,094.0	6,084.3	12.2	12.0	-117.38	-298.7	135.5	290.2	266.5	23.66	12.264		
6,200.0	6,189.8	6,193.9	6,183.9	12.4	12.2	-117.32	-304.3	137.8	295.3	271.2	24.06	12.272		
6,300.0	6,289.6	6,293.7	6,283.6	12.6	12.4	-117.27	-309.9	140.2	300.3	275.9	24.46	12.281		
6,400.0	6,389.4	6,393.6	6,383.3	12.8	12.6	-117.21	-315.5	142.5	305.4	280.6	24.85	12.289		
6,500.0	6,489.3	6,493.5	6,483.0	13.0	12.8	-117.16	-321.1	144.8	310.5	285.3	25.25	12.296		
6,600.0	6,589.1	6,593.4	6,582.7	13.2	13.0	-117.11	-326.7	147.1	315.6	289.9	25.65	12.304		
6,700.0	6,688.9	6,693.2	6,682.4	13.4	13.2	-117.06	-332.3	149.5	320.7	294.6	26.05	12.311		
6,800.0	6,788.7	6,793.1	6,782.1	13.6	13.4	-117.22	-336.8	151.8	325.7	299.3	26.42	12.329		
6,900.0	6,888.6	6,890.7	6,879.2	13.8	13.5	-119.70	-327.6	154.1	331.2	304.5	26.65	12.425		
7,000.0	6,988.4	6,981.2	6,966.5	14.0	13.4	-152.58	-304.6	156.1	338.9	312.2	26.73	12.679		
7,100.0	7,088.0	7,066.1	7,044.2	14.1	13.4	87.20	-270.7	157.9	350.0	323.4	26.61	13.154		
7,200.0	7,184.9	7,150.0	7,115.3	14.0	13.2	76.84	-226.3	159.6	362.9	336.6	26.31	13.794		
7,300.0	7,276.2	7,226.6	7,174.0	13.9	13.1	71.02	-177.1	161.0	376.4	350.5	25.91	14.531		
7,400.0	7,359.0	7,300.0	7,223.5	13.8	13.1	66.79	-123.0	162.1	389.6	364.2	25.44	15.316		
7,500.0	7,430.9	7,379.0	7,268.6	13.7	13.1	63.42	-58.2	163.2	401.4	376.4	24.97	16.072		
7,600.0	7,489.7	7,450.0	7,301.2	13.7	13.2	61.07	4.8	163.9	411.2	386.5	24.65	16.683		
7,700.0	7,533.6	7,526.8	7,327.4	13.8	13.5	59.39	76.9	164.6	418.4	393.8	24.59	17.014		
7,800.0	7,561.3	7,600.0	7,343.2	14.2	13.8	58.47	148.3	164.9	422.7	397.8	24.90	16.978		
7,900.0	7,571.9	7,672.5	7,349.8	14.8	14.3	58.24	220.5	165.1	424.0	398.3	25.66	16.522		
7,972.6	7,572.8	7,739.2	7,350.0	15.3	14.8	58.17	287.2	165.1	424.3	397.7	26.57	15.967		
8,000.0	7,572.0	7,766.6	7,350.0	15.5	15.0	58.26	314.6	165.1	423.9	396.9	26.96	15.721		
8,100.0	7,572.0	7,866.6	7,350.0	16.4	15.9	58.26	414.6	165.1	423.9	395.3	28.54	14.851		
8,200.0	7,572.0	7,966.6	7,350.0	17.4	17.0	58.26	514.6	165.1	423.9	393.6	30.33	13.974		
8,300.0	7,572.0	8,066.6	7,350.0	18.6	18.1	58.26	614.6	165.1	423.9	391.6	32.30	13.122		
8,400.0	7,572.0	8,166.6	7,350.0	19.8	19.4	58.26	714.6	165.1	423.9	389.5	34.42	12.315		
8,500.0	7,572.0	8,266.6	7,350.0	21.1	20.7	58.26	814.6	165.1	423.9	387.2	36.66	11.562		
8,600.0	7,572.0	8,366.6	7,350.0	22.4	22.1	58.26	914.6	165.1	423.9	384.9	39.00	10.868		
8,700.0	7,572.0	8,466.6	7,350.0	23.9	23.5	58.26	1,014.6	165.1	423.9	382.5	41.43	10.232		
8,800.0	7,572.0	8,566.6	7,350.0	25.3	25.0	58.26	1,114.6	165.1	423.9	380.0	43.92	9.651		
8,900.0	7,572.0	8,666.6	7,350.0	26.8	26.5	58.26	1,214.6	165.1	423.9	377.4	46.47	9.121		
9,000.0	7,572.0	8,766.6	7,350.0	28.3	28.0	58.26	1,314.6	165.1	423.9	374.8	49.08	8.637		
9,100.0	7,572.0	8,866.6	7,350.0	29.9	29.6	58.26	1,414.6	165.1	423.9	372.2	51.72	8.196		
9,200.0	7,572.0	8,966.6	7,350.0	31.4	31.2	58.26	1,514.6	165.1	423.9	369.5	54.40	7.792		
9,300.0	7,572.0	9,066.6	7,350.0	33.0	32.8	58.26	1,614.6	165.1	423.9	366.8	57.11	7.422		
9,400.0	7,572.0	9,166.6	7,350.0	34.6	34.4	58.26	1,714.6	165.1	423.9	364.0	59.85	7.083		
9,500.0	7,572.0	9,266.6	7,350.0	36.2	36.0	58.26	1,814.6	165.1	423.9	361.3	62.61	6.770		
9,600.0	7,572.0	9,366.6	7,350.0	37.9	37.6	58.26	1,914.6	165.1	423.9	358.5	65.39	6.482		
9,700.0	7,572.0	9,466.6	7,350.0	39.5	39.3	58.26	2,014.6	165.1	423.9	355.7	68.19	6.216		
9,800.0	7,572.0	9,566.6	7,350.0	41.2	40.9	58.26	2,114.6	165.1	423.9	352.9	71.00	5.970		
9,900.0	7,572.0	9,666.6	7,350.0	42.8	42.6	58.26	2,214.6	165.1	423.9	350.1	73.83	5.741		
10,000.0	7,572.0	9,766.6	7,350.0	44.5	44.3	58.26	2,314.6	165.1	423.9	347.2	76.67	5.529		
10,100.0	7,572.0	9,866.6	7,350.0	46.2	46.0	58.26	2,414.6	165.1	423.9	344.4	79.52	5.330		
10,200.0	7,572.0	9,966.6	7,350.0	47.8	47.6	58.26	2,514.6	165.1	423.9	341.5	82.39	5.145		

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 3B-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 3B-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		
10,300.0	7,572.0	10,066.6	7,350.0	49.5	49.3	58.26	2,614.6	165.1	423.9	338.6	85.26	4.972		
10,400.0	7,572.0	10,166.6	7,350.0	51.2	51.0	58.26	2,714.6	165.1	423.9	335.8	88.13	4.810		
10,500.0	7,572.0	10,266.6	7,350.0	52.9	52.7	58.26	2,814.6	165.1	423.9	332.9	91.02	4.657		
10,600.0	7,572.0	10,366.6	7,350.0	54.6	54.4	58.26	2,914.6	165.1	423.9	330.0	93.91	4.514		
10,700.0	7,572.0	10,466.6	7,350.0	56.3	56.1	58.26	3,014.6	165.1	423.9	327.1	96.81	4.379		
10,800.0	7,572.0	10,566.6	7,350.0	58.0	57.8	58.26	3,114.6	165.1	423.9	324.2	99.71	4.251		
10,900.0	7,572.0	10,666.6	7,350.0	59.7	59.5	58.26	3,214.6	165.1	423.9	321.3	102.62	4.131		
11,000.0	7,572.0	10,766.6	7,350.0	61.4	61.3	58.26	3,314.6	165.1	423.9	318.4	105.54	4.017		
11,100.0	7,572.0	10,866.6	7,350.0	63.1	63.0	58.26	3,414.6	165.1	423.9	315.4	108.45	3.909		
11,200.0	7,572.0	10,966.6	7,350.0	64.8	64.7	58.26	3,514.6	165.1	423.9	312.5	111.37	3.806		
11,300.0	7,572.0	11,066.6	7,350.0	66.6	66.4	58.26	3,614.6	165.1	423.9	309.6	114.30	3.709		
11,400.0	7,572.0	11,166.6	7,350.0	68.3	68.1	58.26	3,714.6	165.1	423.9	306.7	117.23	3.616		
11,500.0	7,572.0	11,266.6	7,350.0	70.0	69.8	58.26	3,814.6	165.1	423.9	303.7	120.16	3.528		
11,600.0	7,572.0	11,366.6	7,350.0	71.7	71.6	58.26	3,914.6	165.1	423.9	300.8	123.09	3.444		
11,700.0	7,572.0	11,466.6	7,350.0	73.4	73.3	58.26	4,014.6	165.1	423.9	297.9	126.03	3.363		
11,800.0	7,572.0	11,566.6	7,350.0	75.2	75.0	58.26	4,114.6	165.1	423.9	294.9	128.97	3.287		
11,800.0	7,572.0	11,566.6	7,350.0	75.2	75.0	58.26	4,114.6	165.1	423.9	294.9	128.97	3.287		
11,900.0	7,572.0	11,666.6	7,350.0	76.9	76.8	58.29	4,214.6	165.1	424.3	292.3	131.96	3.215		
12,000.0	7,572.0	11,766.6	7,350.0	78.6	78.5	58.43	4,314.6	165.1	426.1	291.1	135.08	3.155		
12,100.0	7,572.0	11,866.6	7,350.0	80.3	80.2	58.69	4,414.6	165.1	429.5	291.2	138.32	3.105		
12,200.0	7,572.0	11,966.6	7,350.0	82.1	81.9	59.05	4,514.4	165.1	434.3	292.6	141.68	3.066		
12,300.0	7,572.0	12,066.6	7,350.0	83.8	83.7	59.51	4,614.1	165.1	440.3	295.0	145.25	3.031		
12,400.0	7,572.0	12,165.9	7,350.0	85.5	85.4	59.96	4,713.9	165.1	446.3	297.4	148.87	2.998		
12,500.0	7,572.0	12,265.6	7,350.0	87.3	87.1	60.40	4,813.6	165.1	452.4	299.9	152.50	2.966		
12,600.0	7,572.0	12,365.4	7,350.0	89.0	88.9	60.83	4,913.4	165.1	458.4	302.3	156.12	2.936		
12,700.0	7,572.0	12,465.1	7,350.0	90.7	90.6	61.25	5,013.1	165.1	464.5	304.8	159.76	2.908		
12,800.0	7,572.0	12,564.9	7,350.0	92.5	92.3	61.66	5,112.9	165.1	470.7	307.3	163.39	2.881		
12,900.0	7,572.0	12,664.7	7,350.0	94.2	94.0	62.06	5,212.7	165.1	476.8	309.8	167.03	2.855		
13,000.0	7,572.0	12,764.4	7,350.0	96.0	95.8	62.45	5,312.4	165.1	483.0	312.3	170.66	2.830		
13,100.0	7,572.0	12,864.2	7,350.0	97.7	97.5	62.82	5,412.2	165.1	489.2	314.9	174.30	2.807		
13,200.0	7,572.0	12,963.9	7,350.0	99.4	99.2	63.19	5,511.9	165.1	495.4	317.5	177.94	2.784		
15,100.0	7,572.0	14,848.7	7,350.0	132.2	132.1	61.34	7,396.7	165.1	491.6	274.6	216.92	2.266		
15,200.0	7,572.0	14,940.4	7,350.0	133.8	133.7	58.22	7,488.4	165.1	456.6	249.6	206.98	2.206		
15,300.0	7,572.0	15,029.2	7,350.0	135.4	135.2	53.99	7,577.2	165.1	417.0	223.8	193.16	2.159		
15,333.5	7,572.0	15,058.2	7,350.0	135.9	135.7	52.26	7,606.2	165.1	402.9	215.4	187.47	2.149 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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: O-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	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	74.296		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	19.6	19.6	19.0	0.61	31.962		
300.0	300.0	301.0	301.0	0.5	0.5	90.05	0.0	19.6	19.6	18.6	0.96	20.361	CC, ES	
400.0	400.0	401.0	401.0	0.7	0.7	-119.46	0.0	19.6	20.0	18.7	1.31	15.249		
500.0	500.0	501.0	501.0	0.8	0.8	-125.56	0.0	19.6	21.4	19.7	1.66	12.872		
600.0	599.9	600.6	600.6	1.0	1.0	-132.23	-0.6	20.3	24.7	22.7	2.02	12.246	SF	
700.0	699.7	700.2	700.2	1.2	1.2	-136.32	-2.3	22.3	30.2	27.8	2.37	12.720		
800.0	799.5	799.7	799.5	1.4	1.4	-136.94	-5.0	25.6	36.8	34.0	2.74	13.431		
900.0	899.3	899.0	898.7	1.6	1.6	-135.43	-8.9	30.2	44.3	41.1	3.11	14.221		
1,000.0	999.2	998.3	997.6	1.8	1.8	-132.79	-13.9	36.2	52.7	49.2	3.49	15.079		
1,100.0	1,099.0	1,097.8	1,096.8	2.0	2.0	-130.39	-19.3	42.6	61.6	57.7	3.88	15.871		
1,200.0	1,198.8	1,197.4	1,196.1	2.2	2.2	-128.59	-24.7	49.1	70.6	66.3	4.27	16.531		
1,300.0	1,298.6	1,297.0	1,295.3	2.4	2.4	-127.20	-30.1	55.5	79.7	75.0	4.66	17.088		
1,400.0	1,398.4	1,396.5	1,394.5	2.6	2.6	-126.10	-35.6	62.0	88.7	83.7	5.05	17.563		
1,500.0	1,498.3	1,496.1	1,493.7	2.8	2.8	-125.20	-41.0	68.5	97.9	92.4	5.44	17.973		
1,600.0	1,598.1	1,595.7	1,592.9	3.0	3.0	-124.45	-46.4	74.9	107.0	101.1	5.84	18.330		
1,700.0	1,697.9	1,695.3	1,692.1	3.2	3.3	-123.82	-51.8	81.4	116.1	109.9	6.23	18.643		
1,800.0	1,797.7	1,794.8	1,791.4	3.4	3.5	-123.29	-57.2	87.9	125.3	118.7	6.62	18.920		
1,900.0	1,897.5	1,894.4	1,890.6	3.6	3.7	-122.82	-62.6	94.3	134.5	127.4	7.02	19.166		
2,000.0	1,997.4	1,994.0	1,989.8	3.8	3.9	-122.42	-68.0	100.8	143.6	136.2	7.41	19.387		
2,100.0	2,097.2	2,093.6	2,089.0	4.0	4.2	-122.06	-73.4	107.2	152.8	145.0	7.80	19.586		
2,200.0	2,197.0	2,193.1	2,188.2	4.2	4.4	-121.75	-78.8	113.7	162.0	153.8	8.20	19.767		
2,300.0	2,296.8	2,292.7	2,287.4	4.4	4.6	-121.47	-84.2	120.2	171.2	162.6	8.59	19.931		
2,400.0	2,396.6	2,392.3	2,386.7	4.6	4.8	-121.21	-89.7	126.6	180.4	171.4	8.98	20.080		
2,500.0	2,496.5	2,491.9	2,485.9	4.8	5.1	-120.98	-95.1	133.1	189.6	180.2	9.38	20.218		
2,600.0	2,596.3	2,591.4	2,585.1	5.0	5.3	-120.78	-100.5	139.5	198.8	189.0	9.77	20.344		
2,700.0	2,696.1	2,691.0	2,684.3	5.2	5.5	-120.59	-105.9	146.0	208.0	197.8	10.17	20.461		
2,800.0	2,795.9	2,790.6	2,783.5	5.4	5.7	-120.41	-111.3	152.5	217.2	206.6	10.56	20.569		
2,900.0	2,895.7	2,890.1	2,882.7	5.6	6.0	-120.26	-116.7	158.9	226.4	215.5	10.95	20.669		
3,000.0	2,995.6	2,989.7	2,982.0	5.8	6.2	-120.11	-122.1	165.4	235.6	224.3	11.35	20.763		
3,100.0	3,095.4	3,089.3	3,081.2	6.1	6.4	-119.97	-127.5	171.8	244.8	233.1	11.74	20.850		
3,200.0	3,195.2	3,188.9	3,180.4	6.3	6.6	-119.85	-132.9	178.3	254.0	241.9	12.14	20.931		
3,300.0	3,295.0	3,288.4	3,279.6	6.5	6.9	-119.73	-138.4	184.8	263.2	250.7	12.53	21.008		
3,400.0	3,394.8	3,388.0	3,378.8	6.7	7.1	-119.62	-143.8	191.2	272.5	259.5	12.93	21.080		
3,500.0	3,494.7	3,487.6	3,478.0	6.9	7.3	-119.52	-149.2	197.7	281.7	268.4	13.32	21.147		
3,600.0	3,594.5	3,587.2	3,577.2	7.1	7.5	-119.43	-154.6	204.1	290.9	277.2	13.71	21.211		
3,700.0	3,694.3	3,686.7	3,676.5	7.3	7.8	-119.34	-160.0	210.6	300.1	286.0	14.11	21.271		
3,800.0	3,794.1	3,786.3	3,775.7	7.5	8.0	-119.25	-165.4	217.1	309.3	294.8	14.50	21.328		
3,900.0	3,893.9	3,885.9	3,874.9	7.7	8.2	-119.17	-170.8	223.5	318.5	303.6	14.90	21.382		
4,000.0	3,993.8	3,985.5	3,974.1	7.9	8.5	-119.10	-176.2	230.0	327.8	312.5	15.29	21.433		
4,100.0	4,093.6	4,085.0	4,073.3	8.1	8.7	-119.03	-181.6	236.4	337.0	321.3	15.69	21.482		
4,200.0	4,193.4	4,184.6	4,172.5	8.3	8.9	-118.96	-187.1	242.9	346.2	330.1	16.08	21.528		
4,300.0	4,293.2	4,284.2	4,271.8	8.5	9.1	-118.90	-192.5	249.4	355.4	338.9	16.48	21.572		
4,400.0	4,393.0	4,383.7	4,371.0	8.7	9.4	-118.84	-197.9	255.8	364.6	347.8	16.87	21.614		
4,500.0	4,492.9	4,483.3	4,470.2	8.9	9.6	-118.78	-203.3	262.3	373.9	356.6	17.26	21.654		
4,600.0	4,592.7	4,582.9	4,569.4	9.1	9.8	-118.72	-208.7	268.7	383.1	365.4	17.66	21.693		
4,700.0	4,692.5	4,682.5	4,668.6	9.3	10.0	-118.67	-214.1	275.2	392.3	374.2	18.05	21.729		
4,800.0	4,792.3	4,782.0	4,767.8	9.5	10.3	-118.62	-219.5	281.7	401.5	383.1	18.45	21.764		
4,900.0	4,892.1	4,881.6	4,867.1	9.7	10.5	-118.58	-224.9	288.1	410.7	391.9	18.84	21.798		
5,000.0	4,992.0	4,981.2	4,966.3	9.9	10.7	-118.53	-230.3	294.6	420.0	400.7	19.24	21.830		
5,100.0	5,091.8	5,080.8	5,065.5	10.1	11.0	-118.49	-235.7	301.0	429.2	409.6	19.63	21.861		

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 3B-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 3B-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							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
5,200.0	5,191.6	5,180.3	5,164.7	10.3	11.2	-118.45	-241.2	307.5	438.4	418.4	20.03	21.891					
5,300.0	5,291.4	5,279.9	5,263.9	10.5	11.4	-118.41	-246.6	314.0	447.6	427.2	20.42	21.919					
5,400.0	5,391.2	5,379.5	5,363.1	10.7	11.6	-118.37	-252.0	320.4	456.9	436.0	20.82	21.947					
5,500.0	5,491.1	5,479.1	5,462.4	10.9	11.9	-118.33	-257.4	326.9	466.1	444.9	21.21	21.973					
5,600.0	5,590.9	5,578.6	5,561.6	11.1	12.1	-118.30	-262.8	333.3	475.3	453.7	21.61	21.999					
5,700.0	5,690.7	5,678.2	5,660.8	11.3	12.3	-118.26	-268.2	339.8	484.5	462.5	22.00	22.023					
5,800.0	5,790.5	5,777.8	5,760.0	11.5	12.5	-118.23	-273.6	346.3	493.7	471.4	22.40	22.047					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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						
8,900.0	7,572.0	7,518.0	7,518.0	26.8	13.1	90.00	1,617.4	75.4	485.3	445.6	39.70	12.225						
9,000.0	7,572.0	7,518.0	7,518.0	28.3	13.1	90.00	1,617.4	75.4	406.2	365.0	41.23	9.851						
9,100.0	7,572.0	7,518.0	7,518.0	29.9	13.1	90.00	1,617.4	75.4	338.3	295.5	42.79	7.905						
9,200.0	7,572.0	7,518.0	7,518.0	31.4	13.1	90.00	1,617.4	75.4	289.6	245.2	44.37	6.527						
9,300.0	7,572.0	7,518.0	7,518.0	33.0	13.1	90.00	1,617.4	75.4	270.8	224.8	45.97	5.890						
9,302.8	7,572.0	7,518.0	7,518.0	33.1	13.1	90.00	1,617.4	75.4	270.8	224.7	46.01	5.884	CC, ES, SF					
9,400.0	7,572.0	7,518.0	7,518.0	34.6	13.1	90.00	1,617.4	75.4	287.7	240.1	47.58	6.046						
9,500.0	7,572.0	7,518.0	7,518.0	36.2	13.1	90.00	1,617.4	75.4	335.0	285.8	49.21	6.808						
9,600.0	7,572.0	7,518.0	7,518.0	37.9	13.1	90.00	1,617.4	75.4	402.1	351.2	50.84	7.908						
9,700.0	7,572.0	7,518.0	7,518.0	39.5	13.1	90.00	1,617.4	75.4	480.7	428.2	52.49	9.158						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3B-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 3B-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 3B-22H-M268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°

