



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>North Reference:</b>	True
<b>Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3G-22H-N268					
Well Position	+N/-S	0.0 ft	Northing:	1,286,092.80 ft	Latitude:	40.117590
	+E/-W	0.0 ft	Easting:	3,142,290.68 ft	Longitude:	-104.991240
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,975.0 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	8.68	66.71	52,740

<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	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,835.7	3.36	157.99	2,835.6	-9.1	3.7	1.00	1.00	0.00	157.99	
6,775.0	3.36	157.99	6,768.1	-223.0	90.2	0.00	0.00	0.00	0.00	
7,706.2	90.00	0.00	7,372.0	349.1	103.4	10.00	9.31	-16.97	-157.95	
15,076.2	90.00	0.00	7,372.0	7,719.1	103.4	0.00	0.00	0.00	0.00	Jillson-East Rinn 3G-22H-N268

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<b>Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>North Reference:</b>	True
<b>Well:</b>	Jillson-East Rinn 3G-22H-N268	<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	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 2500'
2,600.0	1.00	157.99	2,600.0	-0.8	0.3	-0.8	1.00	1.00	
2,700.0	2.00	157.99	2,700.0	-3.2	1.3	-3.2	1.00	1.00	
2,800.0	3.00	157.99	2,799.9	-7.3	2.9	-7.3	1.00	1.00	
2,835.7	3.36	157.99	2,835.6	-9.1	3.7	-9.1	1.00	1.00	EOB; Inc=3.36°
2,900.0	3.36	157.99	2,899.7	-12.6	5.1	-12.6	0.00	0.00	
3,000.0	3.36	157.99	2,999.5	-18.0	7.3	-18.0	0.00	0.00	
3,100.0	3.36	157.99	3,099.4	-23.5	9.5	-23.5	0.00	0.00	
3,200.0	3.36	157.99	3,199.2	-28.9	11.7	-28.9	0.00	0.00	
3,300.0	3.36	157.99	3,299.0	-34.3	13.9	-34.3	0.00	0.00	
3,400.0	3.36	157.99	3,398.8	-39.8	16.1	-39.8	0.00	0.00	
3,500.0	3.36	157.99	3,498.7	-45.2	18.3	-45.2	0.00	0.00	
3,600.0	3.36	157.99	3,598.5	-50.6	20.5	-50.6	0.00	0.00	
3,700.0	3.36	157.99	3,698.3	-56.0	22.7	-56.0	0.00	0.00	
3,800.0	3.36	157.99	3,798.2	-61.5	24.9	-61.5	0.00	0.00	
3,900.0	3.36	157.99	3,898.0	-66.9	27.0	-66.9	0.00	0.00	
4,000.0	3.36	157.99	3,997.8	-72.3	29.2	-72.3	0.00	0.00	
4,100.0	3.36	157.99	4,097.6	-77.8	31.4	-77.8	0.00	0.00	
4,200.0	3.36	157.99	4,197.5	-83.2	33.6	-83.2	0.00	0.00	
4,300.0	3.36	157.99	4,297.3	-88.6	35.8	-88.6	0.00	0.00	
4,384.9	3.36	157.99	4,382.0	-93.2	37.7	-93.2	0.00	0.00	Sussex
4,400.0	3.36	157.99	4,397.1	-94.0	38.0	-94.0	0.00	0.00	
4,500.0	3.36	157.99	4,497.0	-99.5	40.2	-99.5	0.00	0.00	
4,600.0	3.36	157.99	4,596.8	-104.9	42.4	-104.9	0.00	0.00	
4,630.3	3.36	157.99	4,627.0	-106.6	43.1	-106.6	0.00	0.00	Sussex Marker
4,700.0	3.36	157.99	4,696.6	-110.3	44.6	-110.3	0.00	0.00	

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<b>Well:</b>	Jillson-East Rinn 3G-22H-N268	<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	3.36	157.99	4,796.4	-115.8	46.8	-115.8	0.00	0.00	
4,900.0	3.36	157.99	4,896.3	-121.2	49.0	-121.2	0.00	0.00	
4,911.8	3.36	157.99	4,908.0	-121.8	49.3	-121.8	0.00	0.00	Shannon
5,000.0	3.36	157.99	4,996.1	-126.6	51.2	-126.6	0.00	0.00	
5,100.0	3.36	157.99	5,095.9	-132.1	53.4	-132.1	0.00	0.00	
5,200.0	3.36	157.99	5,195.7	-137.5	55.6	-137.5	0.00	0.00	
5,300.0	3.36	157.99	5,295.6	-142.9	57.8	-142.9	0.00	0.00	
5,400.0	3.36	157.99	5,395.4	-148.3	60.0	-148.3	0.00	0.00	
5,500.0	3.36	157.99	5,495.2	-153.8	62.2	-153.8	0.00	0.00	
5,600.0	3.36	157.99	5,595.1	-159.2	64.4	-159.2	0.00	0.00	
5,700.0	3.36	157.99	5,694.9	-164.6	66.6	-164.6	0.00	0.00	
5,800.0	3.36	157.99	5,794.7	-170.1	68.8	-170.1	0.00	0.00	
5,900.0	3.36	157.99	5,894.5	-175.5	71.0	-175.5	0.00	0.00	
6,000.0	3.36	157.99	5,994.4	-180.9	73.2	-180.9	0.00	0.00	
6,100.0	3.36	157.99	6,094.2	-186.4	75.3	-186.4	0.00	0.00	
6,200.0	3.36	157.99	6,194.0	-191.8	77.5	-191.8	0.00	0.00	
6,300.0	3.36	157.99	6,293.9	-197.2	79.7	-197.2	0.00	0.00	
6,400.0	3.36	157.99	6,393.7	-202.6	81.9	-202.6	0.00	0.00	
6,500.0	3.36	157.99	6,493.5	-208.1	84.1	-208.1	0.00	0.00	
6,506.5	3.36	157.99	6,500.0	-208.4	84.3	-208.4	0.00	0.00	Teepee Buttes (*if present)
6,600.0	3.36	157.99	6,593.3	-213.5	86.3	-213.5	0.00	0.00	
6,700.0	3.36	157.99	6,693.2	-218.9	88.5	-218.9	0.00	0.00	
6,775.0	3.36	157.99	6,768.1	-223.0	90.2	-223.0	0.00	0.00	Start build/turn @ 6775' MD
6,800.0	1.40	116.05	6,793.0	-223.8	90.7	-223.8	10.00	-7.83	
6,900.0	9.47	7.58	6,892.6	-216.2	92.9	-216.2	10.00	8.07	
7,000.0	19.42	3.58	6,989.3	-191.4	95.0	-191.4	10.00	9.96	
7,100.0	29.41	2.24	7,080.2	-150.1	97.0	-150.1	10.00	9.99	
7,200.0	39.40	1.53	7,162.6	-93.7	98.8	-93.7	10.00	9.99	
7,268.7	46.27	1.21	7,213.0	-47.1	99.9	-47.1	10.00	9.99	Sharon Springs
7,300.0	49.40	1.08	7,234.0	-23.9	100.4	-23.9	10.00	10.00	
7,400.0	59.39	0.75	7,292.2	57.3	101.7	57.3	10.00	10.00	
7,411.7	60.56	0.71	7,298.0	67.4	101.8	67.4	10.00	10.00	Niobrara
7,500.0	69.39	0.47	7,335.3	147.4	102.6	147.4	10.00	10.00	
7,598.9	79.28	0.24	7,362.0	242.5	103.2	242.5	10.00	10.00	B Chalk
7,600.0	79.39	0.24	7,362.2	243.6	103.2	243.6	10.00	10.00	
7,700.0	89.38	0.01	7,372.0	343.0	103.4	343.0	10.00	10.00	
7,706.2	90.00	0.00	7,372.0	349.1	103.4	349.1	10.00	10.00	LP @ 7372' TVD; 90°
7,800.0	90.00	0.00	7,372.0	443.0	103.4	443.0	0.00	0.00	
7,900.0	90.00	0.00	7,372.0	543.0	103.4	543.0	0.00	0.00	
8,000.0	90.00	0.00	7,372.0	643.0	103.4	643.0	0.00	0.00	
8,100.0	90.00	0.00	7,372.0	743.0	103.4	743.0	0.00	0.00	
8,200.0	90.00	0.00	7,372.0	843.0	103.4	843.0	0.00	0.00	
8,300.0	90.00	0.00	7,372.0	943.0	103.4	943.0	0.00	0.00	
8,400.0	90.00	0.00	7,372.0	1,043.0	103.4	1,043.0	0.00	0.00	
8,500.0	90.00	0.00	7,372.0	1,143.0	103.4	1,143.0	0.00	0.00	
8,600.0	90.00	0.00	7,372.0	1,243.0	103.4	1,243.0	0.00	0.00	
8,700.0	90.00	0.00	7,372.0	1,343.0	103.4	1,343.0	0.00	0.00	
8,800.0	90.00	0.00	7,372.0	1,443.0	103.4	1,443.0	0.00	0.00	
8,900.0	90.00	0.00	7,372.0	1,543.0	103.4	1,543.0	0.00	0.00	
9,000.0	90.00	0.00	7,372.0	1,643.0	103.4	1,643.0	0.00	0.00	
9,100.0	90.00	0.00	7,372.0	1,743.0	103.4	1,743.0	0.00	0.00	
9,200.0	90.00	0.00	7,372.0	1,843.0	103.4	1,843.0	0.00	0.00	

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<b>Well:</b>	Jillson-East Rinn 3G-22H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	0.00	7,372.0	1,943.0	103.4	1,943.0	0.00	0.00	
9,400.0	90.00	0.00	7,372.0	2,043.0	103.4	2,043.0	0.00	0.00	
9,500.0	90.00	0.00	7,372.0	2,143.0	103.4	2,143.0	0.00	0.00	
9,600.0	90.00	0.00	7,372.0	2,243.0	103.4	2,243.0	0.00	0.00	
9,700.0	90.00	0.00	7,372.0	2,343.0	103.4	2,343.0	0.00	0.00	
9,800.0	90.00	0.00	7,372.0	2,443.0	103.4	2,443.0	0.00	0.00	
9,900.0	90.00	0.00	7,372.0	2,543.0	103.4	2,543.0	0.00	0.00	
10,000.0	90.00	0.00	7,372.0	2,643.0	103.4	2,643.0	0.00	0.00	
10,100.0	90.00	0.00	7,372.0	2,743.0	103.4	2,743.0	0.00	0.00	
10,200.0	90.00	0.00	7,372.0	2,843.0	103.4	2,843.0	0.00	0.00	
10,300.0	90.00	0.00	7,372.0	2,943.0	103.4	2,943.0	0.00	0.00	
10,400.0	90.00	0.00	7,372.0	3,043.0	103.4	3,043.0	0.00	0.00	
10,500.0	90.00	0.00	7,372.0	3,143.0	103.4	3,143.0	0.00	0.00	
10,600.0	90.00	0.00	7,372.0	3,243.0	103.4	3,243.0	0.00	0.00	
10,700.0	90.00	0.00	7,372.0	3,343.0	103.4	3,343.0	0.00	0.00	
10,800.0	90.00	0.00	7,372.0	3,443.0	103.4	3,443.0	0.00	0.00	
10,900.0	90.00	0.00	7,372.0	3,543.0	103.4	3,543.0	0.00	0.00	
11,000.0	90.00	0.00	7,372.0	3,643.0	103.4	3,643.0	0.00	0.00	
11,100.0	90.00	0.00	7,372.0	3,743.0	103.4	3,743.0	0.00	0.00	
11,200.0	90.00	0.00	7,372.0	3,843.0	103.4	3,843.0	0.00	0.00	
11,300.0	90.00	0.00	7,372.0	3,943.0	103.4	3,943.0	0.00	0.00	
11,400.0	90.00	0.00	7,372.0	4,043.0	103.4	4,043.0	0.00	0.00	
11,500.0	90.00	0.00	7,372.0	4,143.0	103.4	4,143.0	0.00	0.00	
11,600.0	90.00	0.00	7,372.0	4,243.0	103.4	4,243.0	0.00	0.00	
11,700.0	90.00	0.00	7,372.0	4,343.0	103.4	4,343.0	0.00	0.00	
11,800.0	90.00	0.00	7,372.0	4,443.0	103.4	4,443.0	0.00	0.00	
11,900.0	90.00	0.00	7,372.0	4,543.0	103.4	4,543.0	0.00	0.00	
12,000.0	90.00	0.00	7,372.0	4,643.0	103.4	4,643.0	0.00	0.00	
12,100.0	90.00	0.00	7,372.0	4,743.0	103.4	4,743.0	0.00	0.00	
12,200.0	90.00	0.00	7,372.0	4,843.0	103.4	4,843.0	0.00	0.00	
12,300.0	90.00	0.00	7,372.0	4,943.0	103.4	4,943.0	0.00	0.00	
12,400.0	90.00	0.00	7,372.0	5,043.0	103.4	5,043.0	0.00	0.00	
12,500.0	90.00	0.00	7,372.0	5,143.0	103.4	5,143.0	0.00	0.00	
12,600.0	90.00	0.00	7,372.0	5,243.0	103.4	5,243.0	0.00	0.00	
12,700.0	90.00	0.00	7,372.0	5,343.0	103.4	5,343.0	0.00	0.00	
12,800.0	90.00	0.00	7,372.0	5,443.0	103.4	5,443.0	0.00	0.00	
12,900.0	90.00	0.00	7,372.0	5,543.0	103.4	5,543.0	0.00	0.00	
13,000.0	90.00	0.00	7,372.0	5,643.0	103.4	5,643.0	0.00	0.00	
13,100.0	90.00	0.00	7,372.0	5,743.0	103.4	5,743.0	0.00	0.00	
13,200.0	90.00	0.00	7,372.0	5,843.0	103.4	5,843.0	0.00	0.00	
13,300.0	90.00	0.00	7,372.0	5,943.0	103.4	5,943.0	0.00	0.00	
13,400.0	90.00	0.00	7,372.0	6,043.0	103.4	6,043.0	0.00	0.00	
13,500.0	90.00	0.00	7,372.0	6,143.0	103.4	6,143.0	0.00	0.00	
13,600.0	90.00	0.00	7,372.0	6,243.0	103.4	6,243.0	0.00	0.00	
13,700.0	90.00	0.00	7,372.0	6,343.0	103.4	6,343.0	0.00	0.00	
13,800.0	90.00	0.00	7,372.0	6,443.0	103.4	6,443.0	0.00	0.00	
13,900.0	90.00	0.00	7,372.0	6,543.0	103.4	6,543.0	0.00	0.00	
14,000.0	90.00	0.00	7,372.0	6,643.0	103.4	6,643.0	0.00	0.00	
14,100.0	90.00	0.00	7,372.0	6,743.0	103.4	6,743.0	0.00	0.00	
14,200.0	90.00	0.00	7,372.0	6,843.0	103.4	6,843.0	0.00	0.00	
14,300.0	90.00	0.00	7,372.0	6,943.0	103.4	6,943.0	0.00	0.00	
14,400.0	90.00	0.00	7,372.0	7,043.0	103.4	7,043.0	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 3G-22H-N268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>North Reference:</b>	True
<b>Well:</b>	Jillson-East Rinn 3G-22H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,500.0	90.00	0.00	7,372.0	7,143.0	103.4	7,143.0	0.00	0.00	
14,600.0	90.00	0.00	7,372.0	7,243.0	103.4	7,243.0	0.00	0.00	
14,700.0	90.00	0.00	7,372.0	7,343.0	103.4	7,343.0	0.00	0.00	
14,800.0	90.00	0.00	7,372.0	7,443.0	103.4	7,443.0	0.00	0.00	
14,900.0	90.00	0.00	7,372.0	7,543.0	103.4	7,543.0	0.00	0.00	
15,000.0	90.00	0.00	7,372.0	7,643.0	103.4	7,643.0	0.00	0.00	
15,076.2	90.00	0.00	7,372.0	7,719.1	103.4	7,719.1	0.00	0.00	TD at 15076.2 - Jillson-East Rinn 3G-22H-N268

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Jillson-East Rinn 3G-22H - hit/miss target - Shape - Point	0.00	0.00	7,372.0	7,719.1	103.4	1,293,812.37	3,142,349.84	40.138780	-104.990870

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
350.0	350.0	Fox Hills - BASE				
4,384.9	4,382.0	Sussex				
4,630.3	4,627.0	Sussex Marker				
4,911.8	4,908.0	Shannon				
6,506.5	6,500.0	Teepee Buttes (*if present)				
7,268.7	7,213.0	Sharon Springs				
7,411.7	7,298.0	Niobrara				
7,598.9	7,362.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,500.0	2,500.0	0.0	0.0	KOP @ 2500'	
2,835.7	2,835.6	-9.1	3.7	EOB; Inc=3.36°	
6,775.0	6,768.1	-223.0	90.2	Start build/turn @ 6775' MD	
7,706.2	7,372.0	349.1	103.4	LP @ 7372' TVD; 90°	
15,076.2	7,372.0	7,719.1	103.4	TD at 15076.2	

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

**DJ Wattenberg**

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

**Jillson-East Rinn 3G-22H-N268**

**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 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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	8,992.7	7,324.0	212.8	167.1	4.657	CC, ES
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S	9,000.0	7,324.0	212.9	167.1	4.648	SF
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL						Out of range
BLISS 41-21 (EXISTING) - KPK WELL - SURVEYS						Out of range
EARL ANDERSON 1 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON 2 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON B 1 (EXISTING) - KPK WELL - NO S						Out of range
EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 15-12 (EXISTING) AL - VESSELS WELL - N						Out of range
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N	13,071.2	7,252.0	258.9	143.6	2.245	CC, ES, SF
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV	14,405.2	7,297.6	231.7	92.3	1.662	CC, ES, SF
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV	13,016.5	7,608.4	113.4	-21.7	0.839	Level 1, CC, ES, SF
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	13,636.4	7,450.3	439.1	302.6	3.217	CC, ES, SF
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						Out of range
JILLSON 11-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV						Out of range
JILLSON 12-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 14-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR	11,941.9	7,271.0	74.4	-21.4	0.777	Level 1, CC, ES, SF
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR	10,318.7	7,304.0	296.4	228.5	4.368	CC, ES, SF
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE	8,386.8	7,471.1	345.3	307.6	9.170	CC, ES
JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE	8,400.0	7,471.1	345.5	307.7	9.130	SF
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE	3,695.9	3,809.4	321.6	298.0	13.628	CC
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE	3,700.0	3,813.0	321.6	297.9	13.617	ES
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE	6,900.0	7,039.7	361.2	326.7	10.461	SF
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU	2,500.0	2,472.0	414.9	406.2	48.051	CC, ES
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU	4,100.0	4,069.6	498.5	484.3	35.092	SF
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N						Out of range
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1	200.0	200.0	19.6	19.0	32.048	CC, ES
Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1	500.0	498.8	27.0	25.4	16.242	SF
Jillson-East Rinn 3F-22H-N268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.654	CC, ES
Jillson-East Rinn 3F-22H-N268 - Hz - Plan #1	15,076.2	15,273.9	454.9	211.6	1.870	SF
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #1	500.0	500.0	11.2	9.5	6.747	CC, ES
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #1	15,076.2	15,307.4	454.9	211.7	1.871	SF
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N						Out of range

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8160-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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		
8,600.0	7,372.0	7,324.0	7,324.0	26.7	12.8	-90.00	1,635.6	-109.3	446.6	407.2	39.47	11.316		
8,700.0	7,372.0	7,324.0	7,324.0	28.3	12.8	-90.00	1,635.6	-109.3	361.9	320.8	41.02	8.821		
8,800.0	7,372.0	7,324.0	7,324.0	29.9	12.8	-90.00	1,635.6	-109.3	287.1	244.5	42.60	6.738		
8,900.0	7,372.0	7,324.0	7,324.0	31.5	12.8	-90.00	1,635.6	-109.3	232.1	187.9	44.20	5.251		
8,992.7	7,372.0	7,324.0	7,324.0	33.0	12.8	-90.00	1,635.6	-109.3	212.8	167.1	45.69	4.657 CC, ES		
9,000.0	7,372.0	7,324.0	7,324.0	33.1	12.8	-90.00	1,635.6	-109.3	212.9	167.1	45.81	4.648 SF		
9,100.0	7,372.0	7,324.0	7,324.0	34.7	12.8	-90.00	1,635.6	-109.3	238.3	190.9	47.43	5.024		
9,200.0	7,372.0	7,324.0	7,324.0	36.3	12.8	-90.00	1,635.6	-109.3	297.1	248.0	49.07	6.054		
9,300.0	7,372.0	7,324.0	7,324.0	38.0	12.8	-90.00	1,635.6	-109.3	373.8	323.1	50.72	7.370		
9,400.0	7,372.0	7,324.0	7,324.0	39.6	12.8	-90.00	1,635.6	-109.3	459.6	407.2	52.38	8.774		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 15-14 (EXISTING) AL - VESSELS WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 7570-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
12,700.0	7,372.0	7,252.0	7,252.0	96.2	12.7	-90.00	5,714.1	-155.5	452.5	343.6	108.89	4.156		
12,800.0	7,372.0	7,252.0	7,252.0	98.0	12.7	-90.00	5,714.1	-155.5	374.9	264.3	110.63	3.389		
12,900.0	7,372.0	7,252.0	7,252.0	99.7	12.7	-90.00	5,714.1	-155.5	310.4	198.0	112.37	2.762		
13,000.0	7,372.0	7,252.0	7,252.0	101.5	12.7	-90.00	5,714.1	-155.5	268.5	154.4	114.11	2.353		
13,071.2	7,372.0	7,252.0	7,252.0	102.7	12.7	-90.00	5,714.1	-155.5	258.9	143.6	115.34	2.245	CC, ES, SF	
13,100.0	7,372.0	7,252.0	7,252.0	103.2	12.7	-90.00	5,714.1	-155.5	260.5	144.7	115.85	2.249		
13,200.0	7,372.0	7,252.0	7,252.0	104.9	12.7	-90.00	5,714.1	-155.5	289.2	171.6	117.59	2.459		
13,300.0	7,372.0	7,252.0	7,252.0	106.7	12.7	-90.00	5,714.1	-155.5	345.6	226.2	119.33	2.896		
13,400.0	7,372.0	7,252.0	7,252.0	108.4	12.7	-90.00	5,714.1	-155.5	418.5	297.5	121.07	3.457		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 23-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 735-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
14,000.0	7,372.0	7,303.1	7,260.1	118.9	15.9	-90.77	7,048.1	-128.3	466.8	334.4	132.33	3.527		
14,100.0	7,372.0	7,301.7	7,258.7	120.6	15.9	-90.43	7,048.1	-128.3	383.2	249.1	134.08	2.858		
14,200.0	7,372.0	7,300.3	7,257.4	122.4	15.9	-90.10	7,048.1	-128.3	309.5	173.7	135.83	2.279		
14,300.0	7,372.0	7,299.0	7,256.1	124.1	15.9	-89.77	7,048.2	-128.3	254.5	116.9	137.58	1.850		
14,400.0	7,372.0	7,297.7	7,254.7	125.9	15.9	-89.44	7,048.2	-128.3	231.8	92.5	139.32	1.664		
14,405.2	7,372.0	7,297.6	7,254.7	126.0	15.9	-89.42	7,048.2	-128.3	231.7	92.3	139.41	1.662	CC, ES, SF	
14,500.0	7,372.0	7,296.4	7,253.4	127.6	15.9	-89.12	7,048.2	-128.3	250.4	109.3	141.05	1.775		
14,600.0	7,372.0	7,295.1	7,252.1	129.4	15.9	-88.80	7,048.2	-128.2	302.7	159.9	142.79	2.120		
14,700.0	7,372.0	7,293.8	7,250.8	131.1	15.9	-88.48	7,048.2	-128.2	374.9	230.4	144.51	2.594		
14,800.0	7,372.0	7,292.5	7,249.6	132.8	15.9	-88.16	7,048.2	-128.2	457.7	311.5	146.24	3.130		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 24-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 106-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,600.0	7,372.0	7,602.4	7,254.5	94.5	33.8	-86.98	5,659.4	-9.9	431.6	304.0	127.63	3.382		
12,700.0	7,372.0	7,603.8	7,256.0	96.2	33.8	-87.72	5,659.4	-9.9	336.2	206.7	129.44	2.597		
12,800.0	7,372.0	7,605.3	7,257.5	98.0	33.8	-88.46	5,659.4	-9.9	244.4	113.2	131.23	1.862		
12,900.0	7,372.0	7,606.7	7,258.9	99.7	33.8	-89.19	5,659.5	-9.9	162.6	29.6	133.00	1.222 Level 2		
13,000.0	7,372.0	7,608.2	7,260.3	101.5	33.8	-89.92	5,659.5	-9.9	114.6	-20.2	134.75	0.850 Level 1		
13,016.5	7,372.0	7,608.4	7,260.6	101.8	33.8	-90.04	5,659.5	-9.9	113.4	-21.7	135.04	0.839 Level 1, CC, ES, SF		
13,100.0	7,372.0	7,609.6	7,261.8	103.2	33.8	-90.65	5,659.5	-9.9	140.8	4.3	136.48	1.031 Level 2		
13,200.0	7,372.0	7,611.0	7,263.2	104.9	33.8	-91.37	5,659.5	-9.9	215.7	77.5	138.19	1.561		
13,300.0	7,372.0	7,612.5	7,264.6	106.7	33.8	-92.08	5,659.5	-9.9	305.3	165.4	139.88	2.182		
13,400.0	7,372.0	7,613.9	7,266.0	108.4	33.8	-92.79	5,659.6	-9.9	399.8	258.3	141.55	2.825		
13,500.0	7,372.0	7,615.3	7,267.4	110.2	33.8	-93.50	5,659.6	-9.9	496.5	353.3	143.20	3.467		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3-6-15 (EXISTING) - ENCANA WELL - SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:												136-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	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						
13,400.0	7,372.0	7,449.7	7,259.7	108.4	26.7	-89.90	6,279.4	-335.7	498.7	366.3	132.37	3.767					
13,500.0	7,372.0	7,449.9	7,259.9	110.2	26.7	-89.94	6,279.4	-335.7	459.8	325.7	134.11	3.428					
13,600.0	7,372.0	7,450.2	7,260.2	111.9	26.7	-89.97	6,279.4	-335.7	440.6	304.7	135.86	3.243					
13,636.4	7,372.0	7,450.3	7,260.3	112.5	26.7	-89.98	6,279.4	-335.7	439.1	302.6	136.49	3.217	CC, ES, SF				
13,700.0	7,372.0	7,450.5	7,260.4	113.7	26.7	-90.00	6,279.4	-335.7	443.7	306.1	137.60	3.224					
13,800.0	7,372.0	7,450.7	7,260.7	115.4	26.7	-90.04	6,279.4	-335.7	468.6	329.2	139.34	3.363					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 21-22 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 8100-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		
11,500.0	7,372.0	7,271.0	7,271.0	75.4	12.7	-90.00	4,584.8	29.1	448.1	360.0	88.11	5.086		
11,600.0	7,372.0	7,271.0	7,271.0	77.2	12.7	-90.00	4,584.8	29.1	349.9	260.0	89.84	3.895		
11,700.0	7,372.0	7,271.0	7,271.0	78.9	12.7	-90.00	4,584.8	29.1	253.1	161.5	91.57	2.764		
11,800.0	7,372.0	7,271.0	7,271.0	80.6	12.7	-90.00	4,584.8	29.1	160.2	66.9	93.30	1.717		
11,900.0	7,372.0	7,271.0	7,271.0	82.4	12.7	-90.00	4,584.8	29.1	85.3	-9.7	95.03	0.898 Level 1		
11,941.9	7,372.0	7,271.0	7,271.0	83.1	12.7	-90.00	4,584.8	29.1	74.4	-21.4	95.76	0.777 Level 1, CC, ES, SF		
12,000.0	7,372.0	7,271.0	7,271.0	84.1	12.7	-90.00	4,584.8	29.1	94.4	-2.4	96.76	0.975 Level 1		
12,100.0	7,372.0	7,271.0	7,271.0	85.8	12.7	-90.00	4,584.8	29.1	174.7	76.2	98.50	1.774		
12,200.0	7,372.0	7,271.0	7,271.0	87.6	12.7	-90.00	4,584.8	29.1	268.6	168.4	100.23	2.680		
12,300.0	7,372.0	7,271.0	7,271.0	89.3	12.7	-90.00	4,584.8	29.1	365.8	263.8	101.97	3.587		
12,400.0	7,372.0	7,271.0	7,271.0	91.0	12.7	-90.00	4,584.8	29.1	464.1	360.4	103.71	4.475		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 22-22 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 8112-Geolink MWD													Offset Well Error: 0.0 ft
Reference		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	7,372.0	7,304.0	7,304.0	49.7	12.7	-90.00	2,961.6	-193.0	435.2	372.8	62.43	6.971	
10,100.0	7,372.0	7,304.0	7,304.0	51.4	12.7	-90.00	2,961.6	-193.0	368.3	304.2	64.12	5.744	
10,200.0	7,372.0	7,304.0	7,304.0	53.1	12.7	-90.00	2,961.6	-193.0	319.3	253.4	65.83	4.850	
10,300.0	7,372.0	7,304.0	7,304.0	54.8	12.7	-90.00	2,961.6	-193.0	297.0	229.5	67.53	4.398	
10,318.7	7,372.0	7,304.0	7,304.0	55.1	12.7	-90.00	2,961.6	-193.0	296.4	228.5	67.85	4.368	CC, ES, SF
10,400.0	7,372.0	7,304.0	7,304.0	56.5	12.7	-90.00	2,961.6	-193.0	307.4	238.1	69.24	4.439	
10,500.0	7,372.0	7,304.0	7,304.0	58.2	12.7	-90.00	2,961.6	-193.0	347.5	276.5	70.95	4.898	
10,600.0	7,372.0	7,304.0	7,304.0	59.9	12.7	-90.00	2,961.6	-193.0	408.7	336.0	72.66	5.624	
10,700.0	7,372.0	7,304.0	7,304.0	61.7	12.7	-90.00	2,961.6	-193.0	483.0	408.6	74.38	6.494	



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 4-6-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 103-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	
8,100.0	7,372.0	7,469.7	7,351.6	19.5	21.2	89.89	1,029.7	448.7	448.8	415.2	33.61	13.353	
8,200.0	7,372.0	7,470.2	7,352.1	20.9	21.2	89.97	1,029.7	448.7	392.6	357.6	34.97	11.225	
8,300.0	7,372.0	7,470.7	7,352.6	22.3	21.2	90.05	1,029.7	448.7	356.0	319.6	36.38	9.784	
8,386.8	7,372.0	7,471.1	7,353.0	23.5	21.2	90.12	1,029.7	448.7	345.3	307.6	37.65	9.170 CC, ES	
8,400.0	7,372.0	7,471.1	7,353.1	23.7	21.2	90.13	1,029.7	448.7	345.5	307.7	37.84	9.130 SF	
8,500.0	7,372.0	7,471.6	7,353.5	25.2	21.2	90.21	1,029.7	448.7	363.4	324.0	39.34	9.236	
8,600.0	7,372.0	7,472.1	7,354.0	26.7	21.2	90.29	1,029.7	448.7	405.8	364.9	40.87	9.929	
8,700.0	7,372.0	7,472.6	7,354.5	28.3	21.2	90.37	1,029.7	448.7	466.2	423.7	42.42	10.988	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 4-8-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 73-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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)				
2,200.0	2,200.0	2,318.7	2,253.1	3.8	10.0	2.25	491.5	19.3	497.3	483.4	13.82	35.983		
2,300.0	2,300.0	2,428.1	2,358.5	4.0	10.5	5.09	473.1	42.1	481.4	466.9	14.52	33.165		
2,400.0	2,400.0	2,544.2	2,470.4	4.1	11.1	7.96	450.5	63.0	463.7	448.5	15.22	30.472		
2,500.0	2,500.0	2,652.8	2,574.9	4.3	11.6	10.54	425.8	79.2	443.3	427.5	15.86	27.949		
2,600.0	2,600.0	2,754.6	2,672.4	4.5	12.1	-145.01	400.4	93.7	422.1	405.9	16.14	26.150		
2,700.0	2,700.0	2,852.7	2,765.8	4.7	12.6	-142.22	375.0	109.9	402.7	385.9	16.89	23.850		
2,800.0	2,799.9	2,949.1	2,857.1	4.8	13.1	-139.15	349.2	127.1	385.3	367.6	17.66	21.815		
2,900.0	2,899.7	3,038.3	2,941.7	5.0	13.6	-136.10	326.0	143.5	371.0	352.6	18.40	20.161		
3,000.0	2,999.5	3,137.2	3,035.6	5.2	14.1	-132.51	301.4	161.8	359.2	340.0	19.20	18.708		
3,100.0	3,099.4	3,231.0	3,124.9	5.4	14.6	-128.95	278.0	178.9	348.8	328.8	19.95	17.481		
3,200.0	3,199.2	3,324.8	3,214.4	5.6	15.1	-125.33	255.8	195.7	340.8	320.1	20.67	16.490		
3,300.0	3,299.0	3,419.5	3,305.4	5.8	15.6	-121.82	234.7	211.8	335.0	313.7	21.32	15.712		
3,400.0	3,398.8	3,516.9	3,399.1	5.9	16.1	-118.23	214.0	228.2	331.4	309.4	21.96	15.092		
3,500.0	3,498.7	3,623.1	3,501.3	6.1	16.6	-114.29	190.2	244.6	327.3	304.7	22.58	14.495		
3,600.0	3,598.5	3,721.2	3,595.5	6.3	17.1	-110.50	167.0	258.9	323.2	300.1	23.13	13.972		
3,695.9	3,694.3	3,809.4	3,680.0	6.5	17.5	-106.91	146.1	272.8	321.6	298.0	23.60	13.628 CC		
3,700.0	3,698.3	3,813.0	3,683.6	6.5	17.5	-106.76	145.2	273.4	321.6	297.9	23.61	13.617 ES		
3,800.0	3,798.2	3,913.7	3,779.8	6.7	18.1	-102.50	121.3	290.6	322.5	298.5	24.07	13.401		
3,900.0	3,898.0	4,014.2	3,875.7	6.9	18.6	-98.16	96.0	306.7	323.7	299.3	24.42	13.255		
4,000.0	3,997.8	4,110.0	3,966.9	7.1	19.1	-93.97	71.2	322.2	326.4	301.7	24.73	13.202		
4,100.0	4,097.6	4,210.2	4,061.2	7.3	19.7	-89.02	41.8	339.4	330.8	305.9	24.91	13.278		
4,200.0	4,197.5	4,312.9	4,158.1	7.5	20.3	-84.22	11.6	355.3	336.0	311.0	24.97	13.454		
4,300.0	4,297.3	4,413.9	4,254.4	7.7	20.8	-80.17	-15.5	368.5	341.4	316.4	24.98	13.666		
4,400.0	4,397.1	4,516.4	4,353.6	7.8	21.2	-77.01	-38.5	380.0	347.3	322.2	25.02	13.880		
4,500.0	4,497.0	4,621.1	4,456.1	8.0	21.6	-74.61	-57.9	389.4	352.3	327.2	25.11	14.029		
4,600.0	4,596.8	4,724.1	4,557.5	8.2	21.9	-72.82	-74.0	396.9	356.3	331.1	25.26	14.108		
4,700.0	4,696.6	4,822.9	4,655.2	8.4	22.2	-71.51	-87.2	403.6	360.4	335.0	25.44	14.168		
4,800.0	4,796.4	4,923.4	4,755.0	8.6	22.4	-70.80	-96.9	410.0	364.3	338.7	25.68	14.186		
4,900.0	4,896.3	5,026.2	4,857.5	8.8	22.5	-70.86	-101.9	416.5	368.4	342.4	26.03	14.156		
5,000.0	4,996.1	5,133.1	4,964.3	9.0	22.7	-71.54	-103.2	420.9	370.6	344.1	26.48	13.995		
5,100.0	5,095.9	5,237.0	5,068.1	9.2	22.8	-72.29	-103.9	423.7	371.5	344.6	26.95	13.787		
5,200.0	5,195.7	5,340.3	5,171.4	9.4	22.9	-73.04	-104.7	425.5	371.4	344.0	27.41	13.552		
5,300.0	5,295.6	5,441.4	5,272.5	9.6	23.0	-73.80	-105.3	426.7	370.8	343.0	27.86	13.309		
5,400.0	5,395.4	5,542.0	5,373.1	9.8	23.0	-74.59	-105.8	427.5	370.0	341.7	28.33	13.062		
5,500.0	5,495.2	5,641.9	5,473.0	10.0	23.1	-75.39	-106.2	428.3	369.2	340.4	28.80	12.821		
5,600.0	5,595.1	5,741.7	5,572.8	10.2	23.2	-76.19	-106.7	429.0	368.4	339.2	29.26	12.590		
5,700.0	5,694.9	5,841.6	5,672.7	10.4	23.3	-76.99	-107.1	429.8	367.7	338.0	29.73	12.371		
5,800.0	5,794.7	5,941.5	5,772.6	10.6	23.4	-77.79	-107.5	430.5	367.1	337.0	30.19	12.162		
5,900.0	5,894.5	6,041.3	5,872.4	10.8	23.5	-78.60	-108.0	431.3	366.6	336.0	30.65	11.962		
6,000.0	5,994.4	6,141.2	5,972.3	11.0	23.6	-79.41	-108.4	432.0	366.1	335.0	31.10	11.772		
6,100.0	6,094.2	6,241.0	6,072.1	11.2	23.7	-80.22	-108.8	432.8	365.8	334.2	31.56	11.591		
6,200.0	6,194.0	6,340.9	6,172.0	11.4	23.8	-81.03	-109.3	433.5	365.4	333.4	32.01	11.418		
6,300.0	6,293.9	6,440.8	6,271.9	11.6	23.9	-81.84	-109.7	434.3	365.2	332.8	32.45	11.253		
6,400.0	6,393.7	6,540.6	6,371.7	11.8	24.0	-82.66	-110.1	435.1	365.0	332.1	32.90	11.097		
6,500.0	6,493.5	6,640.5	6,471.6	12.0	24.1	-83.47	-110.6	435.8	365.0	331.6	33.34	10.947		
6,573.5	6,566.9	6,713.9	6,545.0	12.1	24.2	-84.07	-110.9	436.4	364.9	331.3	33.66	10.842		
6,600.0	6,593.3	6,740.4	6,571.4	12.2	24.2	-84.28	-111.0	436.6	364.9	331.2	33.77	10.805		
6,700.0	6,693.2	6,840.2	6,671.3	12.4	24.3	-85.10	-111.4	437.3	365.0	330.8	34.21	10.670		
6,800.0	6,793.0	6,940.1	6,771.2	12.6	24.4	-43.91	-111.9	438.1	365.0	330.3	34.62	10.541		
6,900.0	6,892.6	7,039.7	6,870.7	12.7	24.5	65.95	-112.3	438.8	361.2	326.7	34.53	10.461 SF		
7,000.0	6,989.3	7,136.3	6,967.3	12.7	24.6	74.34	-112.7	439.6	353.4	319.6	33.77	10.464		
7,100.0	7,080.2	7,227.1	7,058.1	12.7	24.7	82.48	-113.1	440.2	345.2	312.6	32.58	10.595		

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 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 4-8-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 73-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
7,178.7	7,145.9	7,292.5	7,123.6	12.7	24.8	89.28	-113.4	440.7	342.3	310.8	31.57	10.845	
7,200.0	7,162.6	7,309.2	7,140.3	12.7	24.8	91.09	-113.5	440.9	342.6	311.3	31.30	10.946	
7,300.0	7,234.0	7,380.3	7,211.3	12.8	24.8	98.64	-113.8	441.4	352.7	322.3	30.34	11.622	
7,400.0	7,292.2	7,438.1	7,269.1	13.1	24.9	103.49	-114.1	441.8	380.9	350.8	30.08	12.661	
7,500.0	7,335.3	7,480.9	7,311.9	13.5	24.9	104.38	-114.2	442.2	428.6	397.8	30.81	13.913	
7,600.0	7,362.2	7,507.3	7,338.4	14.1	25.0	100.25	-114.4	442.4	493.1	460.6	32.51	15.168	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 6 (EXISTING) - FOUNDATION WELL - NO SURVEYS														Offset Site Error: 0.0 ft	
Survey Program: 5060-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)					
0.0	0.0	0.0	0.0	0.0	0.0	-16.85	397.1	-120.3	415.8						
100.0	100.0	72.0	72.0	0.1	0.1	-16.85	397.1	-120.3	414.9	414.6	0.26	1,615.840			
200.0	200.0	172.0	172.0	0.3	0.3	-16.85	397.1	-120.3	414.9	414.3	0.61	684.828			
300.0	300.0	272.0	272.0	0.5	0.5	-16.85	397.1	-120.3	414.9	413.9	0.95	434.486			
400.0	400.0	372.0	372.0	0.7	0.6	-16.85	397.1	-120.3	414.9	413.6	1.30	318.176			
500.0	500.0	472.0	472.0	0.8	0.8	-16.85	397.1	-120.3	414.9	413.2	1.65	250.987			
600.0	600.0	572.0	572.0	1.0	1.0	-16.85	397.1	-120.3	414.9	412.9	2.00	207.228			
700.0	700.0	672.0	672.0	1.2	1.2	-16.85	397.1	-120.3	414.9	412.5	2.35	176.461			
800.0	800.0	772.0	772.0	1.4	1.3	-16.85	397.1	-120.3	414.9	412.2	2.70	153.650			
900.0	900.0	872.0	872.0	1.5	1.5	-16.85	397.1	-120.3	414.9	411.8	3.05	136.061			
1,000.0	1,000.0	972.0	972.0	1.7	1.7	-16.85	397.1	-120.3	414.9	411.5	3.40	122.085			
1,100.0	1,100.0	1,072.0	1,072.0	1.9	1.9	-16.85	397.1	-120.3	414.9	411.1	3.75	110.713			
1,200.0	1,200.0	1,172.0	1,172.0	2.1	2.0	-16.85	397.1	-120.3	414.9	410.8	4.10	101.279			
1,300.0	1,300.0	1,272.0	1,272.0	2.2	2.2	-16.85	397.1	-120.3	414.9	410.4	4.45	93.327			
1,400.0	1,400.0	1,372.0	1,372.0	2.4	2.4	-16.85	397.1	-120.3	414.9	410.1	4.79	86.532			
1,500.0	1,500.0	1,472.0	1,472.0	2.6	2.6	-16.85	397.1	-120.3	414.9	409.7	5.14	80.660			
1,600.0	1,600.0	1,572.0	1,572.0	2.7	2.7	-16.85	397.1	-120.3	414.9	409.4	5.49	75.534			
1,700.0	1,700.0	1,672.0	1,672.0	2.9	2.9	-16.85	397.1	-120.3	414.9	409.0	5.84	71.021			
1,800.0	1,800.0	1,772.0	1,772.0	3.1	3.1	-16.85	397.1	-120.3	414.9	408.7	6.19	67.016			
1,900.0	1,900.0	1,872.0	1,872.0	3.3	3.3	-16.85	397.1	-120.3	414.9	408.3	6.54	63.439			
2,000.0	2,000.0	1,972.0	1,972.0	3.4	3.4	-16.85	397.1	-120.3	414.9	408.0	6.89	60.225			
2,100.0	2,100.0	2,072.0	2,072.0	3.6	3.6	-16.85	397.1	-120.3	414.9	407.6	7.24	57.320			
2,200.0	2,200.0	2,172.0	2,172.0	3.8	3.8	-16.85	397.1	-120.3	414.9	407.3	7.59	54.683			
2,300.0	2,300.0	2,272.0	2,272.0	4.0	4.0	-16.85	397.1	-120.3	414.9	406.9	7.94	52.278			
2,400.0	2,400.0	2,372.0	2,372.0	4.1	4.1	-16.85	397.1	-120.3	414.9	406.6	8.29	50.075			
2,500.0	2,500.0	2,472.0	2,472.0	4.3	4.3	-16.85	397.1	-120.3	414.9	406.2	8.63	48.051	CC, ES		
2,600.0	2,600.0	2,572.0	2,572.0	4.5	4.5	-174.84	397.1	-120.3	415.8	406.8	8.98	46.285			
2,700.0	2,700.0	2,672.0	2,672.0	4.7	4.7	-174.87	397.1	-120.3	418.4	409.0	9.33	44.847			
2,800.0	2,799.9	2,771.9	2,771.9	4.8	4.8	-174.92	397.1	-120.3	422.7	413.0	9.67	43.700			
2,900.0	2,899.7	2,871.7	2,871.7	5.0	5.0	-174.99	397.1	-120.3	428.4	418.4	10.02	42.760			
3,000.0	2,999.5	2,971.5	2,971.5	5.2	5.2	-175.06	397.1	-120.3	434.3	423.9	10.37	41.884			
3,100.0	3,099.4	3,071.4	3,071.4	5.4	5.4	-175.12	397.1	-120.3	440.1	429.4	10.72	41.066			
3,200.0	3,199.2	3,171.2	3,171.2	5.6	5.5	-175.19	397.1	-120.3	445.9	434.9	11.07	40.299			
3,300.0	3,299.0	3,271.0	3,271.0	5.8	5.7	-175.25	397.1	-120.3	451.8	440.4	11.41	39.578			
3,400.0	3,398.8	3,370.8	3,370.8	5.9	5.9	-175.31	397.1	-120.3	457.6	445.8	11.76	38.901			
3,500.0	3,498.7	3,470.7	3,470.7	6.1	6.1	-175.37	397.1	-120.3	463.4	451.3	12.11	38.263			
3,600.0	3,598.5	3,570.5	3,570.5	6.3	6.2	-175.43	397.1	-120.3	469.3	456.8	12.46	37.660			
3,700.0	3,698.3	3,670.3	3,670.3	6.5	6.4	-175.48	397.1	-120.3	475.1	462.3	12.81	37.091			
3,800.0	3,798.2	3,770.2	3,770.2	6.7	6.6	-175.54	397.1	-120.3	481.0	467.8	13.16	36.551			
3,900.0	3,898.0	3,870.0	3,870.0	6.9	6.8	-175.59	397.1	-120.3	486.8	473.3	13.51	36.040			
4,000.0	3,997.8	3,969.8	3,969.8	7.1	6.9	-175.64	397.1	-120.3	492.6	478.8	13.86	35.554			
4,100.0	4,097.6	4,069.6	4,069.6	7.3	7.1	-175.70	397.1	-120.3	498.5	484.3	14.20	35.092	SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3E-22H-N268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.99	0.0	-19.6	19.6	19.3	0.26	74.778		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-19.6	19.6	19.0	0.61	32.048 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	-90.87	-0.3	-20.4	20.4	19.4	0.96	21.244		
400.0	400.0	399.3	399.2	0.7	0.7	-93.15	-1.3	-22.8	22.9	21.5	1.31	17.439		
500.0	500.0	498.8	498.6	0.8	0.8	-96.02	-2.8	-26.8	27.0	25.4	1.66	16.242 SF		
600.0	600.0	598.1	597.8	1.0	1.0	-98.80	-5.0	-32.5	32.9	30.9	2.02	16.309		
700.0	700.0	697.2	696.5	1.2	1.3	-101.17	-7.8	-39.7	40.6	38.2	2.38	17.078		
800.0	800.0	796.3	795.2	1.4	1.5	-103.07	-11.2	-48.3	49.8	47.1	2.73	18.228		
900.0	900.0	895.8	894.3	1.5	1.7	-104.41	-14.7	-57.3	59.5	56.4	3.09	19.221		
1,000.0	1,000.0	995.3	993.3	1.7	1.9	-105.38	-18.2	-66.3	69.1	65.7	3.45	20.013		
1,100.0	1,100.0	1,094.9	1,092.4	1.9	2.2	-106.11	-21.8	-75.3	78.8	75.0	3.81	20.661		
1,200.0	1,200.0	1,194.4	1,191.4	2.1	2.4	-106.68	-25.3	-84.3	88.4	84.3	4.17	21.199		
1,300.0	1,300.0	1,293.9	1,290.5	2.2	2.7	-107.14	-28.8	-93.3	98.1	93.6	4.53	21.654		
1,400.0	1,400.0	1,393.4	1,389.6	2.4	2.9	-107.52	-32.3	-102.3	107.8	102.9	4.89	22.043		
1,500.0	1,500.0	1,493.0	1,488.6	2.6	3.1	-107.83	-35.8	-111.3	117.5	112.2	5.25	22.379		
1,600.0	1,600.0	1,592.5	1,587.7	2.7	3.4	-108.10	-39.3	-120.3	127.2	121.6	5.61	22.673		
1,700.0	1,700.0	1,692.0	1,686.7	2.9	3.6	-108.32	-42.8	-129.3	136.9	130.9	5.97	22.932		
1,800.0	1,800.0	1,791.6	1,785.8	3.1	3.9	-108.52	-46.3	-138.3	146.6	140.2	6.33	23.162		
1,900.0	1,900.0	1,891.1	1,884.8	3.3	4.1	-108.70	-49.9	-147.3	156.3	149.6	6.69	23.368		
2,000.0	2,000.0	1,990.6	1,983.9	3.4	4.3	-108.85	-53.4	-156.3	166.0	158.9	7.05	23.553		
2,100.0	2,100.0	2,090.1	2,083.0	3.6	4.6	-108.99	-56.9	-165.3	175.7	168.3	7.41	23.720		
2,200.0	2,200.0	2,189.7	2,182.0	3.8	4.8	-109.11	-60.4	-174.3	185.4	177.6	7.77	23.871		
2,300.0	2,300.0	2,289.2	2,281.1	4.0	5.1	-109.22	-63.9	-183.3	195.1	186.9	8.12	24.010		
2,400.0	2,400.0	2,388.7	2,380.1	4.1	5.3	-109.32	-67.4	-192.3	204.8	196.3	8.48	24.137		
2,500.0	2,500.0	2,488.2	2,479.2	4.3	5.5	-109.41	-70.9	-201.3	214.5	205.6	8.84	24.253		
2,600.0	2,600.0	2,587.8	2,578.2	4.5	5.8	92.65	-74.4	-210.3	224.2	215.2	8.96	25.014		
2,700.0	2,700.0	2,687.3	2,677.3	4.7	6.0	93.11	-78.0	-219.3	234.0	224.7	9.31	25.132		
2,800.0	2,799.9	2,786.7	2,776.2	4.8	6.3	93.93	-81.5	-228.3	244.0	234.3	9.66	25.247		
2,900.0	2,899.7	2,886.0	2,875.1	5.0	6.5	95.06	-85.0	-237.3	254.2	244.1	10.02	25.361		
3,000.0	2,999.5	2,985.4	2,974.0	5.2	6.8	96.15	-88.5	-246.3	264.4	254.0	10.38	25.470		
3,100.0	3,099.4	3,084.7	3,072.9	5.4	7.0	97.17	-92.0	-255.3	274.7	264.0	10.74	25.573		
3,200.0	3,199.2	3,184.1	3,171.8	5.6	7.2	98.11	-95.5	-264.2	285.2	274.1	11.11	25.671		
3,300.0	3,299.0	3,283.4	3,270.6	5.8	7.5	98.99	-99.0	-273.2	295.7	284.2	11.48	25.764		
3,400.0	3,398.8	3,382.8	3,369.5	5.9	7.7	99.80	-102.5	-282.2	306.2	294.4	11.84	25.853		
3,500.0	3,498.7	3,482.1	3,468.4	6.1	8.0	100.56	-106.0	-291.2	316.8	304.6	12.22	25.937		
3,600.0	3,598.5	3,581.5	3,567.3	6.3	8.2	101.27	-109.5	-300.2	327.5	314.9	12.59	26.017		
3,700.0	3,698.3	3,680.8	3,666.2	6.5	8.4	101.94	-113.0	-309.2	338.2	325.2	12.96	26.094		
3,800.0	3,798.2	3,780.2	3,765.0	6.7	8.7	102.56	-116.5	-318.1	349.0	335.6	13.34	26.167		
3,900.0	3,898.0	3,879.5	3,863.9	6.9	8.9	103.15	-120.0	-327.1	359.8	346.0	13.71	26.237		
4,000.0	3,997.8	3,978.9	3,962.8	7.1	9.2	103.70	-123.5	-336.1	370.6	356.5	14.09	26.304		
4,100.0	4,097.6	4,078.2	4,061.7	7.3	9.4	104.23	-127.0	-345.1	381.4	367.0	14.47	26.368		
4,200.0	4,197.5	4,177.6	4,160.6	7.5	9.7	104.72	-130.6	-354.1	392.3	377.5	14.85	26.429		
4,300.0	4,297.3	4,276.9	4,259.4	7.7	9.9	105.19	-134.1	-363.1	403.3	388.0	15.22	26.488		
4,400.0	4,397.1	4,376.3	4,358.3	7.8	10.1	105.63	-137.6	-372.0	414.2	398.6	15.60	26.544		
4,500.0	4,497.0	4,475.6	4,457.2	8.0	10.4	106.05	-141.1	-381.0	425.2	409.2	15.98	26.598		
4,600.0	4,596.8	4,575.0	4,556.1	8.2	10.6	106.44	-144.6	-390.0	436.1	419.8	16.37	26.650		
4,700.0	4,696.6	4,674.3	4,655.0	8.4	10.9	106.82	-148.1	-399.0	447.2	430.4	16.75	26.700		
4,800.0	4,796.4	4,773.7	4,753.8	8.6	11.1	107.18	-151.6	-408.0	458.2	441.1	17.13	26.749		
4,900.0	4,896.3	4,873.0	4,852.7	8.8	11.3	107.53	-155.1	-417.0	469.2	451.7	17.51	26.795		
5,000.0	4,996.1	4,972.4	4,951.6	9.0	11.6	107.85	-158.6	-425.9	480.3	462.4	17.89	26.840		
5,100.0	5,095.9	5,071.7	5,050.5	9.2	11.8	108.17	-162.1	-434.9	491.4	473.1	18.28	26.884		

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 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3F-22H-N268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-11.2	11.2	10.9	0.26	42.731		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-11.2	11.2	10.6	0.61	18.313		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-11.2	11.2	10.2	0.96	11.654 CC, ES		
400.0	400.0	399.8	399.8	0.7	0.7	-92.61	-0.5	-11.9	11.9	10.6	1.31	9.076		
500.0	500.0	499.6	499.6	0.8	0.8	-98.83	-2.2	-13.9	14.1	12.4	1.66	8.482		
600.0	600.0	599.3	599.2	1.0	1.0	-105.62	-4.8	-17.3	18.0	15.9	2.01	8.920		
700.0	700.0	699.2	699.0	1.2	1.2	-110.40	-7.8	-21.1	22.5	20.1	2.37	9.510		
800.0	800.0	799.1	798.7	1.4	1.4	-113.56	-10.8	-24.9	27.2	24.4	2.72	9.986		
900.0	900.0	899.0	898.5	1.5	1.6	-115.80	-13.9	-28.7	31.9	28.8	3.07	10.372		
1,000.0	1,000.0	998.9	998.3	1.7	1.8	-117.45	-16.9	-32.4	36.6	33.2	3.42	10.690		
1,100.0	1,100.0	1,098.7	1,098.0	1.9	2.0	-118.73	-19.9	-36.2	41.4	37.6	3.78	10.956		
1,200.0	1,200.0	1,198.6	1,197.8	2.1	2.2	-119.74	-22.9	-40.0	46.2	42.0	4.13	11.180		
1,300.0	1,300.0	1,298.5	1,297.6	2.2	2.4	-120.56	-25.9	-43.8	50.9	46.5	4.48	11.372		
1,400.0	1,400.0	1,398.4	1,397.3	2.4	2.5	-121.24	-28.9	-47.6	55.8	50.9	4.83	11.538		
1,500.0	1,500.0	1,498.3	1,497.1	2.6	2.7	-121.81	-31.9	-51.4	60.6	55.4	5.18	11.682		
1,600.0	1,600.0	1,598.2	1,596.9	2.7	2.9	-122.30	-34.9	-55.2	65.4	59.8	5.54	11.809		
1,700.0	1,700.0	1,698.0	1,696.6	2.9	3.1	-122.72	-37.9	-59.0	70.2	64.3	5.89	11.922		
1,800.0	1,800.0	1,797.9	1,796.4	3.1	3.3	-123.09	-40.9	-62.8	75.0	68.8	6.24	12.023		
1,900.0	1,900.0	1,897.8	1,896.1	3.3	3.5	-123.41	-43.9	-66.6	79.8	73.3	6.59	12.113		
2,000.0	2,000.0	1,997.7	1,995.9	3.4	3.7	-123.70	-46.9	-70.4	84.7	77.7	6.94	12.195		
2,100.0	2,100.0	2,097.6	2,095.7	3.6	3.9	-123.95	-49.9	-74.2	89.5	82.2	7.29	12.269		
2,200.0	2,200.0	2,197.5	2,195.4	3.8	4.1	-124.18	-52.9	-77.9	94.3	86.7	7.65	12.336		
2,300.0	2,300.0	2,297.3	2,295.2	4.0	4.3	-124.39	-55.9	-81.7	99.2	91.2	8.00	12.398		
2,400.0	2,400.0	2,397.2	2,395.0	4.1	4.5	-124.57	-58.9	-85.5	104.0	95.6	8.35	12.454		
2,500.0	2,500.0	2,497.1	2,494.7	4.3	4.7	-124.74	-62.0	-89.3	108.8	100.1	8.70	12.506		
2,600.0	2,600.0	2,597.0	2,594.5	4.5	4.9	77.50	-65.0	-93.1	113.5	104.5	8.98	12.630		
2,700.0	2,700.0	2,696.9	2,694.3	4.7	5.1	78.54	-68.0	-96.9	117.8	108.4	9.34	12.615		
2,800.0	2,799.9	2,796.7	2,794.0	4.8	5.2	80.31	-71.0	-100.7	121.8	112.1	9.69	12.569		
2,900.0	2,899.7	2,896.5	2,893.7	5.0	5.4	82.62	-74.0	-104.5	125.7	115.7	10.05	12.514		
3,000.0	2,999.5	2,996.3	2,993.4	5.2	5.6	84.84	-77.0	-108.3	129.9	119.5	10.41	12.476		
3,100.0	3,099.4	3,096.1	3,093.0	5.4	5.8	86.92	-80.0	-112.1	134.2	123.4	10.77	12.455		
3,200.0	3,199.2	3,195.9	3,192.7	5.6	6.0	88.88	-83.0	-115.8	138.7	127.5	11.14	12.448		
3,300.0	3,299.0	3,295.7	3,292.4	5.8	6.2	90.70	-86.0	-119.6	143.3	131.8	11.51	12.451		
3,400.0	3,398.8	3,395.5	3,392.1	5.9	6.4	92.42	-89.0	-123.4	148.1	136.2	11.88	12.464		
3,500.0	3,498.7	3,495.3	3,491.7	6.1	6.6	94.02	-92.0	-127.2	153.0	140.7	12.25	12.484		
3,600.0	3,598.5	3,595.1	3,591.4	6.3	6.8	95.52	-95.0	-131.0	158.0	145.4	12.63	12.511		
3,700.0	3,698.3	3,694.8	3,691.1	6.5	7.0	96.93	-98.0	-134.8	163.1	150.1	13.00	12.543		
3,800.0	3,798.2	3,794.6	3,790.8	6.7	7.2	98.26	-101.0	-138.6	168.3	154.9	13.38	12.579		
3,900.0	3,898.0	3,894.4	3,890.4	6.9	7.4	99.50	-104.0	-142.4	173.6	159.8	13.76	12.618		
4,000.0	3,997.8	3,994.2	3,990.1	7.1	7.6	100.67	-107.0	-146.1	179.0	164.8	14.14	12.660		
4,100.0	4,097.6	4,094.0	4,089.8	7.3	7.8	101.77	-110.0	-149.9	184.4	169.9	14.51	12.704		
4,200.0	4,197.5	4,193.8	4,189.4	7.5	8.0	102.81	-113.0	-153.7	189.9	175.0	14.89	12.750		
4,300.0	4,297.3	4,293.6	4,289.1	7.7	8.1	103.79	-116.0	-157.5	195.4	180.2	15.27	12.797		
4,400.0	4,397.1	4,393.4	4,388.8	7.8	8.3	104.71	-119.0	-161.3	201.1	185.4	15.65	12.845		
4,500.0	4,497.0	4,493.2	4,488.5	8.0	8.5	105.59	-122.0	-165.1	206.7	190.7	16.03	12.894		
4,600.0	4,596.8	4,593.0	4,588.1	8.2	8.7	106.42	-125.0	-168.9	212.4	196.0	16.41	12.943		
4,700.0	4,696.6	4,692.8	4,687.8	8.4	8.9	107.20	-128.0	-172.7	218.2	201.4	16.79	12.992		
4,800.0	4,796.4	4,792.5	4,787.5	8.6	9.1	107.94	-131.0	-176.5	224.0	206.8	17.17	13.041		
4,900.0	4,896.3	4,892.3	4,887.2	8.8	9.3	108.65	-134.0	-180.2	229.8	212.2	17.55	13.090		
5,000.0	4,996.1	4,992.1	4,986.8	9.0	9.5	109.32	-137.0	-184.0	235.6	217.7	17.94	13.138		
5,100.0	5,095.9	5,091.9	5,086.5	9.2	9.7	109.96	-140.0	-187.8	241.5	223.2	18.32	13.186		

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 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3F-22H-N268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,200.0	5,195.7	5,191.7	5,186.2	9.4	9.9	110.57	-143.1	-191.6	247.4	228.7	18.70	13.234		
5,300.0	5,295.6	5,291.5	5,285.9	9.6	10.1	111.15	-146.1	-195.4	253.4	234.3	19.08	13.281		
5,400.0	5,395.4	5,391.3	5,385.5	9.8	10.3	111.70	-149.1	-199.2	259.3	239.9	19.46	13.328		
5,500.0	5,495.2	5,491.1	5,485.2	10.0	10.5	112.23	-152.1	-203.0	265.3	245.5	19.84	13.374		
5,600.0	5,595.1	5,590.9	5,584.9	10.2	10.7	112.74	-155.1	-206.8	271.3	251.1	20.22	13.419		
5,700.0	5,694.9	5,690.7	5,684.6	10.4	10.9	113.22	-158.1	-210.5	277.4	256.8	20.60	13.464		
5,800.0	5,794.7	5,790.5	5,784.2	10.6	11.1	113.68	-161.1	-214.3	283.4	262.4	20.98	13.508		
5,900.0	5,894.5	5,890.3	5,883.9	10.8	11.2	114.13	-164.1	-218.1	289.5	268.1	21.36	13.551		
6,000.0	5,994.4	5,990.0	5,983.6	11.0	11.4	114.55	-167.1	-221.9	295.6	273.8	21.74	13.593		
6,100.0	6,094.2	6,089.8	6,083.3	11.2	11.6	114.96	-170.1	-225.7	301.7	279.6	22.13	13.635		
6,200.0	6,194.0	6,189.6	6,182.9	11.4	11.8	115.35	-173.1	-229.5	307.8	285.3	22.51	13.676		
6,300.0	6,293.9	6,289.4	6,282.6	11.6	12.0	115.73	-176.1	-233.3	313.9	291.0	22.89	13.716		
6,400.0	6,393.7	6,389.2	6,382.3	11.8	12.2	116.09	-179.1	-237.1	320.1	296.8	23.27	13.756		
6,500.0	6,493.5	6,489.0	6,482.0	12.0	12.4	116.44	-182.1	-240.8	326.2	302.6	23.65	13.795		
6,600.0	6,593.3	6,588.8	6,581.6	12.2	12.6	116.77	-185.1	-244.6	332.4	308.4	24.03	13.833		
6,700.0	6,693.2	6,688.6	6,681.3	12.4	12.8	117.10	-188.1	-248.4	338.6	314.1	24.41	13.870		
6,800.0	6,793.0	6,788.4	6,781.0	12.6	13.0	117.37	-191.1	-252.2	344.7	319.9	24.79	13.906		
6,900.0	6,892.6	6,887.5	6,880.0	12.7	13.2	117.56	-194.1	-256.0	349.8	324.7	25.06	13.957		
7,000.0	6,989.3	6,983.3	6,975.7	12.7	13.4	117.50	-197.0	-259.6	354.9	329.7	25.22	14.076		
7,100.0	7,080.2	7,077.8	7,070.0	12.7	13.5	117.43	-195.5	-263.3	363.3	338.0	25.24	14.394		
7,200.0	7,162.6	7,179.6	7,169.9	12.7	13.6	117.88	-177.1	-267.4	375.7	350.6	25.15	14.937		
7,300.0	7,234.0	7,290.6	7,273.3	12.8	13.7	116.28	-137.3	-272.1	391.4	366.4	25.03	15.639		
7,400.0	7,292.2	7,413.0	7,375.9	13.1	13.8	110.37	-71.3	-277.2	408.8	383.8	24.97	16.370		
7,500.0	7,335.3	7,548.6	7,470.3	13.5	14.0	113.92	25.4	-282.6	426.0	400.8	25.16	16.928		
7,600.0	7,362.2	7,698.1	7,545.0	14.1	14.6	116.70	154.4	-287.7	440.7	414.8	25.85	17.049		
7,700.0	7,372.0	7,859.7	7,585.4	15.0	15.7	118.40	310.2	-292.0	450.5	423.3	27.22	16.549		
7,800.0	7,372.0	7,985.6	7,589.0	15.9	16.8	118.62	436.0	-294.3	453.1	424.0	29.09	15.576		
7,900.0	7,372.0	8,085.6	7,589.0	17.0	17.8	118.51	536.0	-296.0	454.7	423.6	31.04	14.649		
8,000.0	7,372.0	8,185.6	7,589.0	18.2	19.0	118.41	636.0	-297.8	456.2	423.0	33.16	13.757		
8,100.0	7,372.0	8,285.6	7,589.0	19.5	20.2	118.30	735.9	-299.5	457.7	422.3	35.43	12.918		
8,200.0	7,372.0	8,385.6	7,589.0	20.9	21.5	118.20	835.9	-301.3	459.3	421.4	37.83	12.140		
8,300.0	7,372.0	8,485.6	7,589.0	22.3	22.9	118.10	935.9	-303.0	460.8	420.5	40.33	11.425		
8,400.0	7,372.0	8,585.5	7,589.0	23.7	24.3	117.99	1,035.8	-304.8	462.4	419.4	42.92	10.773		
8,500.0	7,372.0	8,685.5	7,589.0	25.2	25.8	117.89	1,135.8	-306.5	463.9	418.3	45.58	10.178		
8,600.0	7,372.0	8,785.5	7,589.0	26.7	27.3	117.79	1,235.8	-308.3	465.4	417.1	48.30	9.637		
8,700.0	7,372.0	8,885.5	7,589.0	28.3	28.8	117.69	1,335.7	-310.0	467.0	415.9	51.07	9.144		
8,800.0	7,372.0	8,985.5	7,589.0	29.9	30.4	117.59	1,435.7	-311.7	468.5	414.6	53.89	8.694		
8,900.0	7,372.0	9,085.5	7,589.0	31.5	31.9	117.50	1,535.7	-313.5	470.1	413.3	56.75	8.283		
9,000.0	7,372.0	9,185.4	7,589.0	33.1	33.5	117.40	1,635.6	-315.2	471.6	412.0	59.64	7.908		
9,100.0	7,372.0	9,285.4	7,589.0	34.7	35.1	117.30	1,735.6	-317.0	473.2	410.6	62.57	7.563		
9,200.0	7,372.0	9,385.4	7,589.0	36.3	36.7	117.20	1,835.6	-318.7	474.7	409.2	65.52	7.246		
9,300.0	7,372.0	9,485.4	7,589.0	38.0	38.4	117.11	1,935.6	-320.5	476.3	407.8	68.49	6.954		
9,400.0	7,372.0	9,585.4	7,589.0	39.6	40.0	117.01	2,035.5	-322.2	477.8	406.3	71.49	6.684		
9,500.0	7,372.0	9,685.4	7,589.0	41.3	41.7	116.92	2,135.5	-324.0	479.4	404.9	74.50	6.435		
9,600.0	7,372.0	9,785.4	7,589.0	43.0	43.3	116.82	2,235.5	-325.7	480.9	403.4	77.53	6.203		
9,700.0	7,372.0	9,885.3	7,589.0	44.6	45.0	116.73	2,335.4	-327.4	482.5	401.9	80.58	5.988		
9,800.0	7,372.0	9,985.3	7,589.0	46.3	46.6	116.64	2,435.4	-329.2	484.1	400.4	83.65	5.787		
9,900.0	7,372.0	10,085.3	7,589.0	48.0	48.3	116.54	2,535.4	-330.9	485.6	398.9	86.73	5.599		
10,000.0	7,372.0	10,185.3	7,589.0	49.7	50.0	116.45	2,635.3	-332.7	487.2	397.4	89.82	5.424		
10,100.0	7,372.0	10,285.3	7,589.0	51.4	51.7	116.36	2,735.3	-334.4	488.8	395.8	92.92	5.260		
10,200.0	7,372.0	10,385.3	7,589.0	53.1	53.4	116.27	2,835.3	-336.2	490.3	394.3	96.04	5.105		
10,300.0	7,372.0	10,485.3	7,589.0	54.8	55.1	116.18	2,935.3	-337.9	491.9	392.7	99.16	4.960		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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) - Jillson-East Rinn 3F-22H-N268 - 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		
10,400.0	7,372.0	10,585.2	7,589.0	56.5	56.8	-116.09	3,035.2	-339.7	493.4	391.2	102.30	4.824		
10,500.0	7,372.0	10,685.2	7,589.0	58.2	58.5	-116.00	3,135.2	-341.4	495.0	389.6	105.44	4.695		
10,600.0	7,372.0	10,785.2	7,589.0	59.9	60.2	-115.92	3,235.2	-343.1	496.6	388.0	108.59	4.573		
10,700.0	7,372.0	10,885.2	7,589.0	61.7	61.9	-115.83	3,335.1	-344.9	498.2	386.4	111.76	4.458		
10,800.0	7,372.0	10,985.2	7,589.0	63.4	63.6	-115.74	3,435.1	-346.6	499.7	384.8	114.92	4.348		
14,600.0	7,372.0	14,837.0	7,589.0	129.4	130.3	-116.23	7,284.1	-337.0	492.7	258.9	233.75	2.108		
14,700.0	7,372.0	14,936.6	7,589.0	131.1	132.0	-116.72	7,383.2	-327.7	484.4	248.4	235.92	2.053		
14,800.0	7,372.0	15,036.1	7,589.0	132.8	133.7	-117.22	7,482.3	-318.5	476.1	238.1	238.02	2.000		
14,900.0	7,372.0	15,135.7	7,589.0	134.6	135.5	-117.74	7,581.5	-309.2	467.8	227.8	240.03	1.949		
15,000.0	7,372.0	15,235.3	7,589.0	136.3	137.2	-118.28	7,680.6	-300.0	459.6	217.7	241.95	1.900		
15,076.2	7,372.0	15,273.9	7,589.0	137.7	137.9	-118.49	7,719.1	-296.4	454.9	211.6	243.25	1.870 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3H-22H-N268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	90.04	0.0	11.2	11.2	10.9	0.26	42.731		
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	11.2	11.2	10.6	0.61	18.313		
300.0	300.0	300.0	300.0	0.5	0.5	90.04	0.0	11.2	11.2	10.2	0.96	11.654		
400.0	400.0	400.0	400.0	0.7	0.7	90.04	0.0	11.2	11.2	9.9	1.31	8.546		
500.0	500.0	500.0	500.0	0.8	0.8	90.04	0.0	11.2	11.2	9.5	1.66	6.747 CC, ES		
600.0	600.0	599.8	599.8	1.0	1.0	91.89	-0.4	12.0	12.0	10.0	2.01	5.966		
700.0	700.0	699.6	699.5	1.2	1.2	96.21	-1.6	14.3	14.4	12.0	2.36	6.110		
800.0	800.0	799.2	799.1	1.4	1.4	100.85	-3.5	18.2	18.5	15.8	2.70	6.855		
900.0	900.0	898.7	898.3	1.5	1.6	104.67	-6.2	23.6	24.5	21.4	3.05	8.010		
1,000.0	1,000.0	998.1	997.5	1.7	1.8	107.46	-9.6	30.4	32.0	28.6	3.40	9.406		
1,100.0	1,100.0	1,097.8	1,096.8	1.9	2.0	109.25	-13.1	37.6	39.9	36.2	3.75	10.632		
1,200.0	1,200.0	1,197.5	1,196.2	2.1	2.2	110.45	-16.7	44.7	47.8	43.7	4.11	11.652		
1,300.0	1,300.0	1,297.1	1,295.6	2.2	2.4	111.30	-20.2	51.8	55.8	51.3	4.46	12.512		
1,400.0	1,400.0	1,396.8	1,394.9	2.4	2.6	111.94	-23.7	58.9	63.8	58.9	4.81	13.248		
1,500.0	1,500.0	1,496.5	1,494.3	2.6	2.8	112.44	-27.3	66.1	71.7	66.5	5.17	13.882		
1,600.0	1,600.0	1,596.2	1,593.6	2.7	3.0	112.84	-30.8	73.2	79.7	74.2	5.52	14.436		
1,700.0	1,700.0	1,695.9	1,693.0	2.9	3.2	113.17	-34.4	80.3	87.7	81.8	5.87	14.922		
1,800.0	1,800.0	1,795.5	1,792.4	3.1	3.5	113.44	-37.9	87.5	95.6	89.4	6.23	15.353		
1,900.0	1,900.0	1,895.2	1,891.7	3.3	3.7	113.67	-41.5	94.6	103.6	97.0	6.58	15.738		
2,000.0	2,000.0	1,994.9	1,991.1	3.4	3.9	113.87	-45.0	101.7	111.6	104.6	6.94	16.083		
2,100.0	2,100.0	2,094.6	2,090.5	3.6	4.1	114.04	-48.5	108.8	119.6	112.3	7.29	16.395		
2,200.0	2,200.0	2,194.3	2,189.8	3.8	4.3	114.19	-52.1	116.0	127.5	119.9	7.65	16.677		
2,300.0	2,300.0	2,293.9	2,289.2	4.0	4.6	114.32	-55.6	123.1	135.5	127.5	8.00	16.934		
2,400.0	2,400.0	2,393.6	2,388.5	4.1	4.8	114.44	-59.2	130.2	143.5	135.1	8.36	17.170		
2,500.0	2,500.0	2,493.3	2,487.9	4.3	5.0	114.54	-62.7	137.3	151.5	142.8	8.71	17.386		
2,600.0	2,600.0	2,593.0	2,587.3	4.5	5.2	-43.52	-66.3	144.5	158.8	149.8	8.98	17.694		
2,700.0	2,700.0	2,692.8	2,686.8	4.7	5.4	-44.00	-69.8	151.6	164.9	155.6	9.33	17.682		
2,800.0	2,799.9	2,792.7	2,786.3	4.8	5.7	-44.88	-73.4	158.8	169.8	160.1	9.68	17.543		
2,900.0	2,899.7	2,892.5	2,885.9	5.0	5.9	-46.05	-76.9	165.9	173.7	163.7	10.03	17.317		
3,000.0	2,999.5	2,992.4	2,985.4	5.2	6.1	-47.20	-80.5	173.0	177.7	167.3	10.39	17.102		
3,100.0	3,099.4	3,092.3	3,085.0	5.4	6.3	-48.31	-84.0	180.2	181.7	170.9	10.75	16.904		
3,200.0	3,199.2	3,192.1	3,184.5	5.6	6.5	-49.36	-87.5	187.3	185.7	174.6	11.11	16.722		
3,300.0	3,299.0	3,292.0	3,284.0	5.8	6.8	-50.38	-91.1	194.5	189.9	178.4	11.47	16.554		
3,400.0	3,398.8	3,391.8	3,383.6	5.9	7.0	-51.34	-94.6	201.6	194.1	182.2	11.83	16.398		
3,500.0	3,498.7	3,491.7	3,483.1	6.1	7.2	-52.27	-98.2	208.7	198.3	186.1	12.20	16.254		
3,600.0	3,598.5	3,591.6	3,582.7	6.3	7.4	-53.16	-101.7	215.9	202.6	190.0	12.57	16.119		
3,700.0	3,698.3	3,691.4	3,682.2	6.5	7.7	-54.01	-105.3	223.0	206.9	194.0	12.94	15.994		
3,800.0	3,798.2	3,791.3	3,781.7	6.7	7.9	-54.82	-108.8	230.2	211.3	198.0	13.31	15.876		
3,900.0	3,898.0	3,891.1	3,881.3	6.9	8.1	-55.61	-112.4	237.3	215.8	202.1	13.68	15.767		
4,000.0	3,997.8	3,991.0	3,980.8	7.1	8.3	-56.36	-115.9	244.4	220.2	206.2	14.06	15.664		
4,100.0	4,097.6	4,090.8	4,080.4	7.3	8.5	-57.08	-119.5	251.6	224.7	210.3	14.44	15.567		
4,200.0	4,197.5	4,190.7	4,179.9	7.5	8.8	-57.77	-123.0	258.7	229.3	214.4	14.81	15.477		
4,300.0	4,297.3	4,290.6	4,279.4	7.7	9.0	-58.44	-126.6	265.9	233.8	218.6	15.19	15.391		
4,400.0	4,397.1	4,390.4	4,379.0	7.8	9.2	-59.08	-130.1	273.0	238.4	222.8	15.57	15.311		
4,500.0	4,497.0	4,490.3	4,478.5	8.0	9.4	-59.69	-133.7	280.1	243.0	227.1	15.95	15.235		
4,600.0	4,596.8	4,590.1	4,578.1	8.2	9.7	-60.29	-137.2	287.3	247.7	231.4	16.34	15.163		
4,700.0	4,696.6	4,690.0	4,677.6	8.4	9.9	-60.86	-140.8	294.4	252.4	235.7	16.72	15.095		
4,800.0	4,796.4	4,789.9	4,777.1	8.6	10.1	-61.41	-144.3	301.6	257.1	240.0	17.10	15.031		
4,900.0	4,896.3	4,889.7	4,876.7	8.8	10.3	-61.94	-147.9	308.7	261.8	244.3	17.49	14.970		
5,000.0	4,996.1	4,989.6	4,976.2	9.0	10.5	-62.45	-151.4	315.8	266.5	248.7	17.87	14.912		
5,100.0	5,095.9	5,089.4	5,075.8	9.2	10.8	-62.94	-155.0	323.0	271.3	253.0	18.26	14.857		

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 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3H-22H-N268 - 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	5,195.7	5,189.3	5,175.3	9.4	11.0	-63.42	-158.5	330.1	276.1	257.4	18.65	14.805	
5,300.0	5,295.6	5,289.2	5,274.8	9.6	11.2	-63.88	-162.1	337.3	280.9	261.9	19.04	14.755	
5,400.0	5,395.4	5,389.0	5,374.4	9.8	11.4	-64.32	-165.6	344.4	285.7	266.3	19.43	14.707	
5,500.0	5,495.2	5,488.9	5,473.9	10.0	11.7	-64.75	-169.2	351.5	290.6	270.7	19.82	14.662	
5,600.0	5,595.1	5,588.7	5,573.5	10.2	11.9	-65.17	-172.7	358.7	295.4	275.2	20.21	14.619	
5,700.0	5,694.9	5,688.6	5,673.0	10.4	12.1	-65.57	-176.3	365.8	300.3	279.7	20.60	14.578	
5,800.0	5,794.7	5,788.5	5,772.6	10.6	12.3	-65.96	-179.8	373.0	305.2	284.2	20.99	14.538	
5,900.0	5,894.5	5,888.3	5,872.1	10.8	12.6	-66.34	-183.4	380.1	310.1	288.7	21.38	14.501	
6,000.0	5,994.4	5,988.2	5,971.6	11.0	12.8	-66.70	-186.9	387.2	315.0	293.2	21.77	14.465	
6,100.0	6,094.2	6,088.0	6,071.2	11.2	13.0	-67.06	-190.5	394.4	319.9	297.7	22.17	14.430	
6,200.0	6,194.0	6,187.9	6,170.7	11.4	13.2	-67.40	-194.0	401.5	324.8	302.3	22.56	14.397	
6,300.0	6,293.9	6,287.8	6,270.3	11.6	13.4	-67.74	-197.6	408.7	329.8	306.8	22.96	14.365	
6,400.0	6,393.7	6,387.6	6,369.8	11.8	13.7	-68.06	-201.1	415.8	334.7	311.4	23.35	14.335	
6,500.0	6,493.5	6,487.5	6,469.3	12.0	13.9	-68.37	-204.7	422.9	339.7	315.9	23.75	14.306	
6,600.0	6,593.3	6,587.3	6,568.9	12.2	14.1	-68.68	-208.2	430.1	344.7	320.5	24.14	14.278	
6,700.0	6,693.2	6,687.2	6,668.4	12.4	14.3	-68.97	-211.8	437.2	349.7	325.1	24.54	14.251	
6,800.0	6,793.0	6,787.1	6,768.0	12.6	14.6	-27.39	-215.3	444.4	354.6	329.7	24.93	14.226	
6,900.0	6,892.6	6,886.2	6,866.8	12.7	14.8	82.27	-218.8	451.4	359.5	334.3	25.15	14.294	
7,000.0	6,989.3	6,981.9	6,962.1	12.7	15.0	89.79	-222.2	458.3	365.6	340.4	25.18	14.519	
7,100.0	7,080.2	7,079.1	7,059.1	12.7	15.2	96.15	-222.3	465.2	375.8	350.7	25.09	14.978	
7,200.0	7,162.6	7,187.5	7,165.5	12.7	15.3	101.91	-204.3	472.9	390.0	365.1	24.96	15.627	
7,300.0	7,234.0	7,307.4	7,277.0	12.8	15.4	107.05	-161.4	480.9	406.8	382.0	24.85	16.372	
7,400.0	7,292.2	7,441.2	7,387.7	13.1	15.5	111.52	-87.4	488.8	424.2	399.3	24.85	17.070	
7,500.0	7,335.3	7,590.3	7,487.3	13.5	15.7	115.13	22.9	496.0	439.7	414.5	25.12	17.506	
7,600.0	7,362.2	7,753.8	7,559.9	14.1	16.3	117.56	168.7	501.2	450.6	424.7	25.88	17.414	
7,700.0	7,372.0	7,926.6	7,588.9	15.0	17.5	118.49	338.4	503.2	454.9	427.6	27.30	16.662	
7,800.0	7,372.0	8,031.2	7,589.0	15.9	18.3	118.49	443.0	503.3	454.9	425.9	29.05	15.659	
7,900.0	7,372.0	8,131.2	7,589.0	17.0	19.3	118.49	543.0	503.3	454.9	423.9	30.99	14.679	
8,000.0	7,372.0	8,231.2	7,589.0	18.2	20.4	118.49	643.0	503.3	454.9	421.8	33.10	13.741	
8,100.0	7,372.0	8,331.2	7,589.0	19.5	21.5	118.49	743.0	503.3	454.9	419.5	35.36	12.864	
8,200.0	7,372.0	8,431.2	7,589.0	20.9	22.8	118.49	843.0	503.3	454.9	417.2	37.74	12.054	
8,300.0	7,372.0	8,531.2	7,589.0	22.3	24.1	118.49	943.0	503.3	454.9	414.7	40.21	11.313	
8,400.0	7,372.0	8,631.2	7,589.0	23.7	25.4	118.49	1,043.0	503.3	454.9	412.1	42.77	10.637	
8,500.0	7,372.0	8,731.2	7,589.0	25.2	26.8	118.49	1,143.0	503.3	454.9	409.5	45.39	10.023	
8,600.0	7,372.0	8,831.2	7,589.0	26.7	28.3	118.49	1,243.0	503.3	454.9	406.8	48.06	9.465	
8,700.0	7,372.0	8,931.2	7,589.0	28.3	29.7	118.49	1,343.0	503.3	454.9	404.1	50.78	8.957	
8,800.0	7,372.0	9,031.2	7,589.0	29.9	31.3	118.49	1,443.0	503.3	454.9	401.4	53.55	8.495	
8,900.0	7,372.0	9,131.2	7,589.0	31.5	32.8	118.49	1,543.0	503.3	454.9	398.6	56.34	8.074	
9,000.0	7,372.0	9,231.2	7,589.0	33.1	34.3	118.49	1,643.0	503.3	454.9	395.7	59.17	7.688	
9,100.0	7,372.0	9,331.2	7,589.0	34.7	35.9	118.49	1,743.0	503.3	454.9	392.9	62.02	7.335	
9,200.0	7,372.0	9,431.2	7,589.0	36.3	37.5	118.49	1,843.0	503.3	454.9	390.0	64.89	7.010	
9,300.0	7,372.0	9,531.2	7,589.0	38.0	39.1	118.49	1,943.0	503.3	454.9	387.1	67.78	6.711	
9,400.0	7,372.0	9,631.2	7,589.0	39.6	40.7	118.49	2,043.0	503.3	454.9	384.2	70.69	6.435	
9,500.0	7,372.0	9,731.2	7,589.0	41.3	42.3	118.49	2,143.0	503.3	454.9	381.3	73.62	6.179	
9,600.0	7,372.0	9,831.2	7,589.0	43.0	44.0	118.49	2,243.0	503.3	454.9	378.3	76.55	5.942	
9,700.0	7,372.0	9,931.2	7,589.0	44.6	45.6	118.49	2,343.0	503.3	454.9	375.4	79.50	5.722	
9,800.0	7,372.0	10,031.2	7,589.0	46.3	47.2	118.49	2,443.0	503.3	454.9	372.4	82.46	5.517	
9,900.0	7,372.0	10,131.2	7,589.0	48.0	48.9	118.49	2,543.0	503.3	454.9	369.5	85.42	5.325	
10,000.0	7,372.0	10,231.2	7,589.0	49.7	50.6	118.49	2,643.0	503.3	454.9	366.5	88.40	5.146	
10,100.0	7,372.0	10,331.2	7,589.0	51.4	52.2	118.49	2,743.0	503.3	454.9	363.5	91.38	4.978	
10,200.0	7,372.0	10,431.2	7,589.0	53.1	53.9	118.49	2,843.0	503.3	454.9	360.5	94.37	4.820	
10,300.0	7,372.0	10,531.2	7,589.0	54.8	55.6	118.49	2,943.0	503.3	454.9	357.5	97.37	4.672	

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 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 3H-22H-N268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,372.0	10,631.2	7,589.0	56.5	57.3	118.49	3,043.0	503.3	454.9	354.5	100.37	4.532		
10,500.0	7,372.0	10,731.2	7,589.0	58.2	59.0	118.49	3,143.0	503.3	454.9	351.5	103.38	4.400		
10,600.0	7,372.0	10,831.2	7,589.0	59.9	60.7	118.49	3,243.0	503.3	454.9	348.5	106.39	4.276		
10,700.0	7,372.0	10,931.2	7,589.0	61.7	62.4	118.49	3,343.0	503.3	454.9	345.5	109.40	4.158		
10,800.0	7,372.0	11,031.2	7,589.0	63.4	64.1	118.49	3,443.0	503.3	454.9	342.5	112.42	4.046		
10,900.0	7,372.0	11,131.2	7,589.0	65.1	65.8	118.49	3,543.0	503.3	454.9	339.5	115.45	3.940		
11,000.0	7,372.0	11,231.2	7,589.0	66.8	67.5	118.49	3,643.0	503.3	454.9	336.4	118.47	3.840		
11,100.0	7,372.0	11,331.2	7,589.0	68.5	69.2	118.49	3,743.0	503.3	454.9	333.4	121.50	3.744		
11,200.0	7,372.0	11,431.2	7,589.0	70.3	70.9	118.49	3,843.0	503.3	454.9	330.4	124.54	3.653		
11,300.0	7,372.0	11,531.2	7,589.0	72.0	72.6	118.49	3,943.0	503.3	454.9	327.3	127.57	3.566		
11,400.0	7,372.0	11,631.2	7,589.0	73.7	74.3	118.49	4,043.0	503.3	454.9	324.3	130.61	3.483		
11,500.0	7,372.0	11,731.2	7,589.0	75.4	76.0	118.49	4,143.0	503.3	454.9	321.2	133.65	3.404		
11,600.0	7,372.0	11,831.2	7,589.0	77.2	77.7	118.49	4,243.0	503.3	454.9	318.2	136.69	3.328		
11,700.0	7,372.0	11,931.2	7,589.0	78.9	79.5	118.49	4,343.0	503.3	454.9	315.2	139.74	3.255		
11,800.0	7,372.0	12,031.2	7,589.0	80.6	81.2	118.49	4,443.0	503.3	454.9	312.1	142.79	3.186		
11,900.0	7,372.0	12,131.2	7,589.0	82.4	82.9	118.49	4,543.0	503.3	454.9	309.1	145.83	3.119		
12,000.0	7,372.0	12,231.2	7,589.0	84.1	84.6	118.49	4,643.0	503.3	454.9	306.0	148.88	3.055		
12,100.0	7,372.0	12,331.2	7,589.0	85.8	86.3	118.49	4,743.0	503.3	454.9	303.0	151.93	2.994		
12,200.0	7,372.0	12,431.2	7,589.0	87.6	88.1	118.49	4,843.0	503.3	454.9	299.9	154.99	2.935		
12,300.0	7,372.0	12,531.2	7,589.0	89.3	89.8	118.49	4,943.0	503.3	454.9	296.9	158.04	2.878		
12,400.0	7,372.0	12,631.2	7,589.0	91.0	91.5	118.49	5,043.0	503.3	454.9	293.8	161.10	2.824		
12,500.0	7,372.0	12,731.2	7,589.0	92.8	93.3	118.49	5,143.0	503.3	454.9	290.7	164.15	2.771		
12,600.0	7,372.0	12,831.2	7,589.0	94.5	95.0	118.49	5,243.0	503.3	454.9	287.7	167.21	2.720		
12,700.0	7,372.0	12,931.2	7,589.0	96.2	96.7	118.49	5,343.0	503.3	454.9	284.6	170.27	2.672		
12,800.0	7,372.0	13,031.2	7,589.0	98.0	98.4	118.49	5,443.0	503.3	454.9	281.6	173.33	2.624		
12,900.0	7,372.0	13,131.2	7,589.0	99.7	100.2	118.49	5,543.0	503.3	454.9	278.5	176.39	2.579		
13,000.0	7,372.0	13,231.2	7,589.0	101.5	101.9	118.49	5,643.0	503.3	454.9	275.4	179.46	2.535		
13,100.0	7,372.0	13,331.2	7,589.0	103.2	103.6	118.49	5,743.0	503.3	454.9	272.4	182.52	2.492		
13,200.0	7,372.0	13,431.2	7,589.0	104.9	105.4	118.49	5,843.0	503.3	454.9	269.3	185.58	2.451		
13,300.0	7,372.0	13,531.2	7,589.0	106.7	107.1	118.49	5,943.0	503.3	454.9	266.3	188.65	2.411		
13,400.0	7,372.0	13,631.2	7,589.0	108.4	108.9	118.49	6,043.0	503.3	454.9	263.2	191.71	2.373		
13,500.0	7,372.0	13,731.2	7,589.0	110.2	110.6	118.49	6,143.0	503.3	454.9	260.1	194.78	2.335		
13,600.0	7,372.0	13,831.2	7,589.0	111.9	112.3	118.49	6,243.0	503.3	454.9	257.1	197.85	2.299		
13,700.0	7,372.0	13,931.2	7,589.0	113.7	114.1	118.49	6,343.0	503.3	454.9	254.0	200.91	2.264		
13,800.0	7,372.0	14,031.2	7,589.0	115.4	115.8	118.49	6,443.0	503.3	454.9	250.9	203.98	2.230		
13,900.0	7,372.0	14,131.2	7,589.0	117.1	117.5	118.49	6,543.0	503.3	454.9	247.8	207.05	2.197		
14,000.0	7,372.0	14,231.2	7,589.0	118.9	119.3	118.49	6,643.0	503.3	454.9	244.8	210.12	2.165		
14,100.0	7,372.0	14,331.2	7,589.0	120.6	121.0	118.49	6,743.0	503.3	454.9	241.7	213.19	2.134		
14,200.0	7,372.0	14,431.2	7,589.0	122.4	122.8	118.49	6,843.0	503.3	454.9	238.6	216.26	2.103		
14,300.0	7,372.0	14,531.2	7,589.0	124.1	124.5	118.49	6,943.0	503.3	454.9	235.6	219.33	2.074		
14,400.0	7,372.0	14,631.2	7,589.0	125.9	126.2	118.49	7,043.0	503.3	454.9	232.5	222.40	2.045		
14,500.0	7,372.0	14,731.2	7,589.0	127.6	128.0	118.49	7,143.0	503.3	454.9	229.4	225.48	2.018		
14,600.0	7,372.0	14,831.2	7,589.0	129.4	129.7	118.49	7,243.0	503.3	454.9	226.4	228.55	1.990		
14,700.0	7,372.0	14,931.2	7,589.0	131.1	131.5	118.49	7,343.0	503.3	454.9	223.3	231.62	1.964		
14,800.0	7,372.0	15,031.2	7,589.0	132.8	133.2	118.49	7,443.0	503.3	454.9	220.2	234.69	1.938		
14,900.0	7,372.0	15,131.2	7,589.0	134.6	134.9	118.49	7,543.0	503.3	454.9	217.1	237.77	1.913		
15,000.0	7,372.0	15,231.2	7,589.0	136.3	136.7	118.49	7,643.0	503.3	454.9	214.1	240.84	1.889		
15,076.2	7,372.0	15,307.4	7,589.0	137.7	138.0	118.49	7,719.1	503.3	454.9	211.7	243.18	1.871 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3G-22H-N268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Reference Site:</b>	S22-T2N-R68W (Jillson-East Rinn)	<b>MD Reference:</b>	WELL @ 5000.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Jillson-East Rinn 3G-22H-N268	<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 @ 5000.0ft (Original Well Elev)  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Jillson-East Rinn 3G-22H-N268  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.33°

