

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	577.7	2.78	231.59	577.6	-4.2	-5.3	1.00	231.59	-4.2	
4	7007.3	2.78	231.59	6999.6	-197.7	-249.3	0.00	0.00	-197.7	
5	7924.1	90.00	359.00	7589.0	374.5	-282.0	10.00	127.38	374.5	
6	13824.1	90.00	359.00	7589.0	6273.6	-385.0	0.00	0.00	6273.6	Jillson-East Rinn 3F-22H-N268 TGT
7	14457.5	90.00	5.33	7589.0	6906.2	-361.1	1.00	90.00	6906.2	Jillson-East Rinn 3F-22H-N268 PBHL
8	15273.9	90.00	5.33	7589.0	7719.1	-285.2	0.00	0.00	7719.1	Jillson-East Rinn 3F-22H-N268 PBHL

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Jillson-East Rinn 3F-22H-N268 PBHL	7719.1	-285.2	1293810.08	3141950.04	40.138780	-104.992300
Jillson-East Rinn 3F-22H-N268 TGT	6273.6	-385.0	1292364.05	3141858.51	40.134812	-104.992657

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
350.0	350.0	Fox Hills - BASE
4382.0	4386.6	Sussex
4627.0	4631.9	Sussex Marker
4908.0	4913.2	Shannon
6500.0	6507.1	Teepee Buttes (*if present)
7213.0	7224.9	Sharon Springs
7298.0	7318.7	Niobrara
7362.0	7395.4	B Chalk
7391.0	7432.7	B Marl
7447.0	7511.8	C Chalk
7473.0	7553.0	C Marl
7559.0	7737.8	Ft. Hayes
7579.0	7816.9	Codell

Azimuths to True North  
 Magnetic North: 8.68°  
 Magnetic Field  
 Strength: 52739.6nT  
 Dip Angle: 66.71°  
 Date: 7/9/2013  
 Model: IGRF2010

Plan #1  
 Jillson-East Rinn 3F-22H-N268  
 13xxx; LR  
 WELL @ 5000.0ft (Original Well Elev)  
 Ground Elevation @ 4975.0  
 North American Datum 1983  
 Well Jillson-East Rinn 3F-22H-N268, True North

Vertical Section at 0.00° (1300 ft/in)

## Planning Report

<b>Database:</b> USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b> Well Jillson-East Rinn 3F-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 3F-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		

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

<b>Well</b> Jillson-East Rinn 3F-22H-N268						
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,286,092.73 ft	<b>Latitude:</b>	40.117590
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	3,142,279.50 ft	<b>Longitude:</b>	-104.991280
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	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</b>
	IGRF2010	7/9/2013	(°)	(°)	(nT)
			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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	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	
577.7	2.78	231.59	577.6	-4.2	-5.3	1.00	1.00	0.00	231.59	
7,007.3	2.78	231.59	6,999.6	-197.7	-249.3	0.00	0.00	0.00	0.00	
7,924.1	90.00	359.00	7,589.0	374.5	-282.0	10.00	9.51	13.90	127.38	
13,824.1	90.00	359.00	7,589.0	6,273.6	-385.0	0.00	0.00	0.00	0.00	Jillson-East Rinn 3F-2
14,457.5	90.00	5.33	7,589.0	6,906.2	-361.1	1.00	0.00	1.00	90.00	
15,273.9	90.00	5.33	7,589.0	7,719.1	-285.2	0.00	0.00	0.00	0.00	Jillson-East Rinn 3F-2

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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	0.50	231.59	350.0	-0.1	-0.2	-0.1	1.00	1.00	KOP @ 300' Fox Hills - BASE
400.0	1.00	231.59	400.0	-0.5	-0.7	-0.5	1.00	1.00	
500.0	2.00	231.59	500.0	-2.2	-2.7	-2.2	1.00	1.00	
577.7	2.78	231.59	577.6	-4.2	-5.3	-4.2	1.00	1.00	EOB; Inc=2.78°
600.0	2.78	231.59	599.9	-4.9	-6.1	-4.9	0.00	0.00	
700.0	2.78	231.59	699.7	-7.9	-9.9	-7.9	0.00	0.00	
800.0	2.78	231.59	799.6	-10.9	-13.7	-10.9	0.00	0.00	
900.0	2.78	231.59	899.5	-13.9	-17.5	-13.9	0.00	0.00	
1,000.0	2.78	231.59	999.4	-16.9	-21.3	-16.9	0.00	0.00	
1,100.0	2.78	231.59	1,099.3	-19.9	-25.1	-19.9	0.00	0.00	
1,200.0	2.78	231.59	1,199.2	-22.9	-28.9	-22.9	0.00	0.00	
1,300.0	2.78	231.59	1,299.0	-25.9	-32.7	-25.9	0.00	0.00	
1,400.0	2.78	231.59	1,398.9	-28.9	-36.5	-28.9	0.00	0.00	
1,500.0	2.78	231.59	1,498.8	-31.9	-40.3	-31.9	0.00	0.00	
1,600.0	2.78	231.59	1,598.7	-34.9	-44.1	-34.9	0.00	0.00	
1,700.0	2.78	231.59	1,698.6	-38.0	-47.9	-38.0	0.00	0.00	
1,800.0	2.78	231.59	1,798.5	-41.0	-51.7	-41.0	0.00	0.00	
1,900.0	2.78	231.59	1,898.3	-44.0	-55.5	-44.0	0.00	0.00	
2,000.0	2.78	231.59	1,998.2	-47.0	-59.3	-47.0	0.00	0.00	
2,100.0	2.78	231.59	2,098.1	-50.0	-63.1	-50.0	0.00	0.00	
2,200.0	2.78	231.59	2,198.0	-53.0	-66.9	-53.0	0.00	0.00	
2,300.0	2.78	231.59	2,297.9	-56.0	-70.6	-56.0	0.00	0.00	
2,400.0	2.78	231.59	2,397.8	-59.0	-74.4	-59.0	0.00	0.00	
2,500.0	2.78	231.59	2,497.6	-62.0	-78.2	-62.0	0.00	0.00	
2,600.0	2.78	231.59	2,597.5	-65.0	-82.0	-65.0	0.00	0.00	
2,700.0	2.78	231.59	2,697.4	-68.1	-85.8	-68.1	0.00	0.00	
2,800.0	2.78	231.59	2,797.3	-71.1	-89.6	-71.1	0.00	0.00	
2,900.0	2.78	231.59	2,897.2	-74.1	-93.4	-74.1	0.00	0.00	
3,000.0	2.78	231.59	2,997.0	-77.1	-97.2	-77.1	0.00	0.00	
3,100.0	2.78	231.59	3,096.9	-80.1	-101.0	-80.1	0.00	0.00	
3,200.0	2.78	231.59	3,196.8	-83.1	-104.8	-83.1	0.00	0.00	
3,300.0	2.78	231.59	3,296.7	-86.1	-108.6	-86.1	0.00	0.00	
3,400.0	2.78	231.59	3,396.6	-89.1	-112.4	-89.1	0.00	0.00	
3,500.0	2.78	231.59	3,496.5	-92.1	-116.2	-92.1	0.00	0.00	
3,600.0	2.78	231.59	3,596.3	-95.1	-120.0	-95.1	0.00	0.00	
3,700.0	2.78	231.59	3,696.2	-98.2	-123.8	-98.2	0.00	0.00	
3,800.0	2.78	231.59	3,796.1	-101.2	-127.6	-101.2	0.00	0.00	
3,900.0	2.78	231.59	3,896.0	-104.2	-131.4	-104.2	0.00	0.00	
4,000.0	2.78	231.59	3,995.9	-107.2	-135.2	-107.2	0.00	0.00	
4,100.0	2.78	231.59	4,095.8	-110.2	-139.0	-110.2	0.00	0.00	
4,200.0	2.78	231.59	4,195.6	-113.2	-142.8	-113.2	0.00	0.00	
4,300.0	2.78	231.59	4,295.5	-116.2	-146.6	-116.2	0.00	0.00	
4,386.6	2.78	231.59	4,382.0	-118.8	-149.9	-118.8	0.00	0.00	Sussex
4,400.0	2.78	231.59	4,395.4	-119.2	-150.4	-119.2	0.00	0.00	
4,500.0	2.78	231.59	4,495.3	-122.2	-154.2	-122.2	0.00	0.00	
4,600.0	2.78	231.59	4,595.2	-125.2	-158.0	-125.2	0.00	0.00	
4,631.9	2.78	231.59	4,627.0	-126.2	-159.2	-126.2	0.00	0.00	Sussex Marker
4,700.0	2.78	231.59	4,695.1	-128.3	-161.8	-128.3	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 3F-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 3F-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	2.78	231.59	4,794.9	-131.3	-165.5	-131.3	0.00	0.00	
4,900.0	2.78	231.59	4,894.8	-134.3	-169.3	-134.3	0.00	0.00	
4,913.2	2.78	231.59	4,908.0	-134.7	-169.8	-134.7	0.00	0.00	Shannon
5,000.0	2.78	231.59	4,994.7	-137.3	-173.1	-137.3	0.00	0.00	
5,100.0	2.78	231.59	5,094.6	-140.3	-176.9	-140.3	0.00	0.00	
5,200.0	2.78	231.59	5,194.5	-143.3	-180.7	-143.3	0.00	0.00	
5,300.0	2.78	231.59	5,294.3	-146.3	-184.5	-146.3	0.00	0.00	
5,400.0	2.78	231.59	5,394.2	-149.3	-188.3	-149.3	0.00	0.00	
5,500.0	2.78	231.59	5,494.1	-152.3	-192.1	-152.3	0.00	0.00	
5,600.0	2.78	231.59	5,594.0	-155.3	-195.9	-155.3	0.00	0.00	
5,700.0	2.78	231.59	5,693.9	-158.4	-199.7	-158.4	0.00	0.00	
5,800.0	2.78	231.59	5,793.8	-161.4	-203.5	-161.4	0.00	0.00	
5,900.0	2.78	231.59	5,893.6	-164.4	-207.3	-164.4	0.00	0.00	
6,000.0	2.78	231.59	5,993.5	-167.4	-211.1	-167.4	0.00	0.00	
6,100.0	2.78	231.59	6,093.4	-170.4	-214.9	-170.4	0.00	0.00	
6,200.0	2.78	231.59	6,193.3	-173.4	-218.7	-173.4	0.00	0.00	
6,300.0	2.78	231.59	6,293.2	-176.4	-222.5	-176.4	0.00	0.00	
6,400.0	2.78	231.59	6,393.1	-179.4	-226.3	-179.4	0.00	0.00	
6,500.0	2.78	231.59	6,492.9	-182.4	-230.1	-182.4	0.00	0.00	
6,507.1	2.78	231.59	6,500.0	-182.6	-230.3	-182.6	0.00	0.00	Teepee Buttes (*if present)
6,600.0	2.78	231.59	6,592.8	-185.4	-233.9	-185.4	0.00	0.00	
6,700.0	2.78	231.59	6,692.7	-188.4	-237.7	-188.4	0.00	0.00	
6,800.0	2.78	231.59	6,792.6	-191.5	-241.5	-191.5	0.00	0.00	
6,900.0	2.78	231.59	6,892.5	-194.5	-245.3	-194.5	0.00	0.00	
7,000.0	2.78	231.59	6,992.4	-197.5	-249.1	-197.5	0.00	0.00	
7,007.3	2.78	231.59	6,999.6	-197.7	-249.3	-197.7	0.00	0.00	Start build/turn @ 7007' MD
7,100.0	7.90	342.88	7,092.0	-193.0	-253.0	-193.0	10.00	5.52	
7,200.0	17.72	352.08	7,189.5	-171.3	-257.1	-171.3	10.00	9.82	
7,224.9	20.19	352.99	7,213.0	-163.3	-258.2	-163.3	10.00	9.93	Sharon Springs
7,300.0	27.67	354.79	7,281.6	-133.0	-261.3	-133.0	10.00	9.95	
7,318.7	29.53	355.10	7,298.0	-124.1	-262.1	-124.1	10.00	9.97	Niobrara
7,395.4	37.18	356.09	7,362.0	-82.1	-265.3	-82.1	10.00	9.98	B Chalk
7,400.0	37.64	356.14	7,365.7	-79.3	-265.5	-79.3	10.00	9.98	
7,432.7	40.91	356.45	7,391.0	-58.6	-266.8	-58.6	10.00	9.98	B Marl
7,500.0	47.62	356.99	7,439.2	-11.8	-269.5	-11.8	10.00	9.98	
7,511.8	48.80	357.07	7,447.0	-3.0	-270.0	-3.0	10.00	9.99	C Chalk
7,553.0	52.91	357.33	7,473.0	28.9	-271.5	28.9	10.00	9.99	C Marl
7,600.0	57.61	357.60	7,499.8	67.5	-273.2	67.5	10.00	9.99	
7,700.0	67.60	358.09	7,545.7	156.1	-276.6	156.1	10.00	9.99	
7,737.8	71.38	358.26	7,559.0	191.5	-277.7	191.5	10.00	9.99	Ft. Hayes
7,800.0	77.60	358.51	7,575.6	251.4	-279.4	251.4	10.00	9.99	
7,816.9	79.28	358.58	7,579.0	267.9	-279.8	267.9	10.00	9.99	Codell
7,900.0	87.59	358.91	7,588.5	350.4	-281.6	350.4	10.00	9.99	
7,924.1	90.00	359.00	7,589.0	374.5	-282.0	374.5	10.00	9.99	LP @ 7589' TVD; 90°
8,000.0	90.00	359.00	7,589.0	450.4	-283.4	450.4	0.00	0.00	
8,100.0	90.00	359.00	7,589.0	550.4	-285.1	550.4	0.00	0.00	
8,200.0	90.00	359.00	7,589.0	650.3	-286.8	650.3	0.00	0.00	
8,300.0	90.00	359.00	7,589.0	750.3	-288.6	750.3	0.00	0.00	
8,400.0	90.00	359.00	7,589.0	850.3	-290.3	850.3	0.00	0.00	
8,500.0	90.00	359.00	7,589.0	950.3	-292.1	950.3	0.00	0.00	
8,600.0	90.00	359.00	7,589.0	1,050.3	-293.8	1,050.3	0.00	0.00	
8,700.0	90.00	359.00	7,589.0	1,150.3	-295.6	1,150.3	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 3F-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 3F-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
8,800.0	90.00	359.00	7,589.0	1,250.3	-297.3	1,250.3	0.00	0.00	
8,900.0	90.00	359.00	7,589.0	1,350.2	-299.1	1,350.2	0.00	0.00	
9,000.0	90.00	359.00	7,589.0	1,450.2	-300.8	1,450.2	0.00	0.00	
9,100.0	90.00	359.00	7,589.0	1,550.2	-302.6	1,550.2	0.00	0.00	
9,200.0	90.00	359.00	7,589.0	1,650.2	-304.3	1,650.2	0.00	0.00	
9,300.0	90.00	359.00	7,589.0	1,750.2	-306.0	1,750.2	0.00	0.00	
9,400.0	90.00	359.00	7,589.0	1,850.2	-307.8	1,850.2	0.00	0.00	
9,500.0	90.00	359.00	7,589.0	1,950.1	-309.5	1,950.1	0.00	0.00	
9,600.0	90.00	359.00	7,589.0	2,050.1	-311.3	2,050.1	0.00	0.00	
9,700.0	90.00	359.00	7,589.0	2,150.1	-313.0	2,150.1	0.00	0.00	
9,800.0	90.00	359.00	7,589.0	2,250.1	-314.8	2,250.1	0.00	0.00	
9,900.0	90.00	359.00	7,589.0	2,350.1	-316.5	2,350.1	0.00	0.00	
10,000.0	90.00	359.00	7,589.0	2,450.1	-318.3	2,450.1	0.00	0.00	
10,100.0	90.00	359.00	7,589.0	2,550.1	-320.0	2,550.1	0.00	0.00	
10,200.0	90.00	359.00	7,589.0	2,650.0	-321.8	2,650.0	0.00	0.00	
10,300.0	90.00	359.00	7,589.0	2,750.0	-323.5	2,750.0	0.00	0.00	
10,400.0	90.00	359.00	7,589.0	2,850.0	-325.2	2,850.0	0.00	0.00	
10,500.0	90.00	359.00	7,589.0	2,950.0	-327.0	2,950.0	0.00	0.00	
10,600.0	90.00	359.00	7,589.0	3,050.0	-328.7	3,050.0	0.00	0.00	
10,700.0	90.00	359.00	7,589.0	3,150.0	-330.5	3,150.0	0.00	0.00	
10,800.0	90.00	359.00	7,589.0	3,250.0	-332.2	3,250.0	0.00	0.00	
10,900.0	90.00	359.00	7,589.0	3,349.9	-334.0	3,349.9	0.00	0.00	
11,000.0	90.00	359.00	7,589.0	3,449.9	-335.7	3,449.9	0.00	0.00	
11,100.0	90.00	359.00	7,589.0	3,549.9	-337.5	3,549.9	0.00	0.00	
11,200.0	90.00	359.00	7,589.0	3,649.9	-339.2	3,649.9	0.00	0.00	
11,300.0	90.00	359.00	7,589.0	3,749.9	-340.9	3,749.9	0.00	0.00	
11,400.0	90.00	359.00	7,589.0	3,849.9	-342.7	3,849.9	0.00	0.00	
11,500.0	90.00	359.00	7,589.0	3,949.8	-344.4	3,949.8	0.00	0.00	
11,600.0	90.00	359.00	7,589.0	4,049.8	-346.2	4,049.8	0.00	0.00	
11,700.0	90.00	359.00	7,589.0	4,149.8	-347.9	4,149.8	0.00	0.00	
11,800.0	90.00	359.00	7,589.0	4,249.8	-349.7	4,249.8	0.00	0.00	
11,900.0	90.00	359.00	7,589.0	4,349.8	-351.4	4,349.8	0.00	0.00	
12,000.0	90.00	359.00	7,589.0	4,449.8	-353.2	4,449.8	0.00	0.00	
12,100.0	90.00	359.00	7,589.0	4,549.8	-354.9	4,549.8	0.00	0.00	
12,200.0	90.00	359.00	7,589.0	4,649.7	-356.7	4,649.7	0.00	0.00	
12,300.0	90.00	359.00	7,589.0	4,749.7	-358.4	4,749.7	0.00	0.00	
12,400.0	90.00	359.00	7,589.0	4,849.7	-360.1	4,849.7	0.00	0.00	
12,500.0	90.00	359.00	7,589.0	4,949.7	-361.9	4,949.7	0.00	0.00	
12,600.0	90.00	359.00	7,589.0	5,049.7	-363.6	5,049.7	0.00	0.00	
12,700.0	90.00	359.00	7,589.0	5,149.7	-365.4	5,149.7	0.00	0.00	
12,800.0	90.00	359.00	7,589.0	5,249.6	-367.1	5,249.6	0.00	0.00	
12,900.0	90.00	359.00	7,589.0	5,349.6	-368.9	5,349.6	0.00	0.00	
13,000.0	90.00	359.00	7,589.0	5,449.6	-370.6	5,449.6	0.00	0.00	
13,100.0	90.00	359.00	7,589.0	5,549.6	-372.4	5,549.6	0.00	0.00	
13,200.0	90.00	359.00	7,589.0	5,649.6	-374.1	5,649.6	0.00	0.00	
13,300.0	90.00	359.00	7,589.0	5,749.6	-375.9	5,749.6	0.00	0.00	
13,400.0	90.00	359.00	7,589.0	5,849.6	-377.6	5,849.6	0.00	0.00	
13,500.0	90.00	359.00	7,589.0	5,949.5	-379.3	5,949.5	0.00	0.00	
13,600.0	90.00	359.00	7,589.0	6,049.5	-381.1	6,049.5	0.00	0.00	
13,700.0	90.00	359.00	7,589.0	6,149.5	-382.8	6,149.5	0.00	0.00	
13,800.0	90.00	359.00	7,589.0	6,249.5	-384.6	6,249.5	0.00	0.00	
13,824.1	90.00	359.00	7,589.0	6,273.6	-385.0	6,273.6	0.00	0.00	Start turn @ 13824' MD - Jillson-East Rinn 3F-2

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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
13,900.0	90.00	359.76	7,589.0	6,349.5	-385.8	6,349.5	1.00	0.00	
14,000.0	90.00	0.76	7,589.0	6,449.5	-385.4	6,449.5	1.00	0.00	
14,100.0	90.00	1.76	7,589.0	6,549.5	-383.2	6,549.5	1.00	0.00	
14,200.0	90.00	2.76	7,589.0	6,649.4	-379.2	6,649.4	1.00	0.00	
14,300.0	90.00	3.76	7,589.0	6,749.2	-373.5	6,749.2	1.00	0.00	
14,400.0	90.00	4.76	7,589.0	6,848.9	-366.1	6,848.9	1.00	0.00	
14,457.5	90.00	5.33	7,589.0	6,906.2	-361.1	6,906.2	1.00	0.00	End of turn @ 14457' MD
14,500.0	90.00	5.33	7,589.0	6,948.5	-357.1	6,948.5	0.00	0.00	
14,600.0	90.00	5.33	7,589.0	7,048.1	-347.8	7,048.1	0.00	0.00	
14,700.0	90.00	5.33	7,589.0	7,147.7	-338.5	7,147.7	0.00	0.00	
14,800.0	90.00	5.33	7,589.0	7,247.2	-329.2	7,247.2	0.00	0.00	
14,900.0	90.00	5.33	7,589.0	7,346.8	-319.9	7,346.8	0.00	0.00	
15,000.0	90.00	5.33	7,589.0	7,446.4	-310.6	7,446.4	0.00	0.00	
15,100.0	90.00	5.33	7,589.0	7,545.9	-301.3	7,545.9	0.00	0.00	
15,200.0	90.00	5.33	7,589.0	7,645.5	-292.0	7,645.5	0.00	0.00	
15,273.9	90.00	5.33	7,589.0	7,719.1	-285.2	7,719.1	0.00	0.00	TD at 15273.9 - Jillson-East Rinn 3F-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 3F-22H - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,589.0	7,719.1	-285.2	1,293,810.08	3,141,950.04	40.138780	-104.992300
Jillson-East Rinn 3F-22H - plan hits target center - Point	0.00	0.00	7,589.0	6,273.6	-385.0	1,292,364.05	3,141,858.51	40.134812	-104.992657

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
350.0	350.0	Fox Hills - BASE				
4,386.6	4,382.0	Sussex				
4,631.9	4,627.0	Sussex Marker				
4,913.2	4,908.0	Shannon				
6,507.1	6,500.0	Teepee Buttes (*if present)				
7,224.9	7,213.0	Sharon Springs				
7,318.7	7,298.0	Niobrara				
7,395.4	7,362.0	B Chalk				
7,432.7	7,391.0	B Marl				
7,511.8	7,447.0	C Chalk				
7,553.0	7,473.0	C Marl				
7,737.8	7,559.0	Ft. Hayes				
7,816.9	7,579.0	Codell				

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-22H-N268	<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'
577.7	577.6	-4.2	-5.3	EOB; Inc=2.78°
7,007.3	6,999.6	-197.7	-249.3	Start build/turn @ 7007' MD
7,924.1	7,589.0	374.5	-282.0	LP @ 7589' TVD; 90°
13,824.1	7,589.0	6,273.6	-385.0	Start turn @ 13824' MD
14,457.5	7,589.0	6,906.2	-361.1	End of turn @ 14457' MD
15,273.9	7,589.0	7,719.1	-285.2	TD at 15273.9

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

**DJ Wattenberg**

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

**Jillson-East Rinn 3F-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 3F-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 3F-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	15,273.3	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 3F-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 3F-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
Offset Well - Wellbore - Design						
S22-T2N-R68W (Jillson-East Rinn)						
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S	9,181.8	7,541.0	205.9	159.6	4.449	CC, ES
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S	9,200.0	7,541.0	206.7	160.1	4.439	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	13,260.5	7,469.0	230.9	115.1	1.993	CC, ES, SF
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV	14,617.6	7,518.5	227.8	88.4	1.634	CC, ES, SF
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV	13,206.2	7,825.6	375.5	240.3	2.777	CC, ES, SF
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR	15,194.7	7,627.8	432.1	283.3	2.904	CC
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR	15,200.0	7,627.7	432.1	283.2	2.902	ES, SF
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR	12,737.9	8,072.5	476.2	340.7	3.515	CC, ES, SF
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR	13,830.1	7,667.4	60.7	-76.1	0.444	Level 1, 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	11,630.1	7,485.0	100.4	12.8	1.146	Level 2, CC, ES, SF
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	12,128.2	7,488.0	395.7	299.5	4.113	CC, ES, SF
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR	10,509.1	7,521.0	145.4	77.0	2.126	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						Out of range
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE	3,236.2	3,346.7	461.7	441.0	22.319	CC, ES
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE	3,800.0	3,892.0	483.2	459.9	20.786	SF
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU	300.0	272.0	411.8	410.8	431.236	CC
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU	400.0	372.0	412.1	410.8	315.920	ES
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU	3,800.0	3,768.1	498.6	485.1	36.880	SF
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N	8,291.5	7,551.0	173.3	140.4	5.267	CC, ES
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N	8,300.0	7,551.0	173.5	140.5	5.256	SF
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	8.4	7.8	13.735	CC, ES
Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1	15,273.9	15,100.9	411.4	178.2	1.764	SF
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.654	CC, ES
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1	15,273.9	15,076.2	454.9	213.2	1.882	SF
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #1	300.0	300.0	22.4	21.4	23.308	CC, ES
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #1	600.0	599.4	29.6	27.6	14.735	SF
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N						Out of range

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 3F-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 3F-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				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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
8,800.0	7,589.0	7,541.0	7,541.0	27.5	13.2	90.00	1,635.6	-98.2	433.8	393.6	40.24	10.781			
8,900.0	7,589.0	7,541.0	7,541.0	29.0	13.2	90.00	1,635.6	-98.2	349.0	307.2	41.79	8.352			
9,000.0	7,589.0	7,541.0	7,541.0	30.6	13.2	90.00	1,635.6	-98.2	274.7	231.3	43.36	6.335			
9,100.0	7,589.0	7,541.0	7,541.0	32.2	13.2	90.00	1,635.6	-98.2	221.5	176.6	44.95	4.928			
9,181.8	7,589.0	7,541.0	7,541.0	33.5	13.2	90.00	1,635.6	-98.2	205.9	159.6	46.27	4.449 CC, ES			
9,200.0	7,589.0	7,541.0	7,541.0	33.7	13.2	90.00	1,635.6	-98.2	206.7	160.1	46.56	4.439 SF			
9,300.0	7,589.0	7,541.0	7,541.0	35.4	13.2	90.00	1,635.6	-98.2	237.4	189.2	48.18	4.926			
9,400.0	7,589.0	7,541.0	7,541.0	37.0	13.2	90.00	1,635.6	-98.2	300.0	250.1	49.82	6.021			
9,500.0	7,589.0	7,541.0	7,541.0	38.6	13.2	90.00	1,635.6	-98.2	379.0	327.5	51.46	7.364			
9,600.0	7,589.0	7,541.0	7,541.0	40.2	13.2	90.00	1,635.6	-98.2	466.1	413.0	53.12	8.775			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													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		
12,900.0	7,589.0	7,469.0	7,469.0	96.7	13.0	90.00	5,714.1	-144.3	428.1	318.5	109.58	3.907			
13,000.0	7,589.0	7,469.0	7,469.0	98.4	13.0	90.00	5,714.1	-144.3	348.1	236.8	111.32	3.127			
13,100.0	7,589.0	7,469.0	7,469.0	100.1	13.0	90.00	5,714.1	-144.3	281.2	168.2	113.06	2.487			
13,200.0	7,589.0	7,469.0	7,469.0	101.9	13.0	90.00	5,714.1	-144.3	238.7	123.9	114.80	2.079			
13,260.5	7,589.0	7,469.0	7,469.0	102.9	13.0	90.00	5,714.1	-144.3	230.9	115.1	115.85	1.993	CC, ES, SF		
13,300.0	7,589.0	7,469.0	7,469.0	103.6	13.0	90.00	5,714.1	-144.3	234.3	117.7	116.54	2.010			
13,400.0	7,589.0	7,469.0	7,469.0	105.4	13.0	90.00	5,714.1	-144.3	269.8	151.5	118.28	2.281			
13,500.0	7,589.0	7,469.0	7,469.0	107.1	13.0	90.00	5,714.1	-144.3	332.7	212.7	120.02	2.772			
13,600.0	7,589.0	7,469.0	7,469.0	108.8	13.0	90.00	5,714.1	-144.3	410.6	288.8	121.76	3.372			
13,700.0	7,589.0	7,469.0	7,469.0	110.6	13.0	90.00	5,714.1	-144.3	496.5	373.0	123.51	4.020			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													Offset Site Error:	0.0 ft				
Survey Program: 735-Geolink MWD													Offset Well Error:		0.0 ft			
Reference				Offset				Semi Major Axis					Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
14,200.0	7,589.0	7,525.3	7,482.3	119.3	16.2	91.98	7,044.3	-119.4	472.8	340.2	132.59	3.566						
14,300.0	7,589.0	7,523.7	7,480.7	121.0	16.2	91.65	7,044.3	-119.4	389.5	255.4	134.17	2.903						
14,400.0	7,589.0	7,522.1	7,479.1	122.7	16.2	91.27	7,044.4	-119.4	314.8	179.1	135.72	2.319						
14,500.0	7,589.0	7,520.5	7,477.5	124.5	16.2	90.87	7,044.4	-119.4	256.4	119.0	137.34	1.867						
14,600.0	7,589.0	7,518.8	7,475.8	126.2	16.2	90.45	7,044.4	-119.3	228.5	89.4	139.09	1.643						
14,617.6	7,589.0	7,518.5	7,475.5	126.5	16.2	90.38	7,044.4	-119.3	227.8	88.4	139.40	1.634	CC, ES, SF					
14,700.0	7,589.0	7,517.1	7,474.1	127.9	16.2	90.03	7,044.4	-119.3	242.3	101.4	140.84	1.720						
14,800.0	7,589.0	7,515.4	7,472.4	129.7	16.2	89.60	7,044.5	-119.3	291.9	149.3	142.58	2.047						
14,900.0	7,589.0	7,513.7	7,470.7	131.4	16.2	89.17	7,044.5	-119.3	362.8	218.5	144.31	2.514						
15,000.0	7,589.0	7,512.0	7,469.0	133.1	16.2	88.73	7,044.5	-119.3	445.1	299.1	146.03	3.048						

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 3F-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 3F-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													Offset Site Error:	0.0 ft				
Survey Program: 106-Geolink MWD													Offset Well Error:		0.0 ft			
Reference				Offset				Semi Major Axis					Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
12,900.0	7,589.0	7,822.1	7,474.2	96.7	34.0	89.50	5,662.2	1.2	484.5	354.6	129.85	3.731						
13,000.0	7,589.0	7,823.2	7,475.4	98.4	34.0	89.67	5,662.3	1.2	428.3	296.7	131.60	3.255						
13,100.0	7,589.0	7,824.4	7,476.5	100.1	34.0	89.85	5,662.3	1.2	390.2	256.8	133.34	2.926						
13,200.0	7,589.0	7,825.5	7,477.7	101.9	34.0	90.02	5,662.3	1.2	375.5	240.4	135.08	2.780						
13,206.2	7,589.0	7,825.6	7,477.7	102.0	34.0	90.04	5,662.3	1.2	375.5	240.3	135.19	2.777	CC, ES, SF					
13,300.0	7,589.0	7,826.7	7,478.8	103.6	34.0	90.20	5,662.3	1.2	387.0	250.2	136.82	2.829						
13,400.0	7,589.0	7,827.8	7,479.9	105.4	34.0	90.37	5,662.3	1.2	422.5	284.0	138.56	3.050						
13,500.0	7,589.0	7,828.9	7,481.1	107.1	34.0	90.54	5,662.3	1.2	476.8	336.5	140.30	3.398						

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													Offset Site Error:	0.0 ft				
Survey Program: 106-Geolink MWD													Offset Well Error:		0.0 ft			
Reference				Offset				Semi Major Axis					Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
15,000.0	7,589.0	7,628.8	7,473.3	133.1	23.8	-89.45	7,680.4	-722.7	473.9	328.5	145.39	3.260						
15,100.0	7,589.0	7,628.3	7,472.7	134.9	23.8	-89.38	7,680.4	-722.7	442.3	295.2	147.14	3.006						
15,194.7	7,589.0	7,627.8	7,472.2	136.5	23.8	-89.31	7,680.4	-722.7	432.1	283.3	148.79	2.904	CC					
15,200.0	7,589.0	7,627.7	7,472.2	136.6	23.8	-89.31	7,680.4	-722.7	432.1	283.2	148.88	2.902	ES, SF					
15,273.9	7,589.0	7,627.3	7,471.8	137.9	23.8	-89.25	7,680.4	-722.7	439.3	289.1	150.18	2.925						

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 136-Geolink MWD														
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	
12,600.0	7,589.0	8,069.9	7,476.4	91.5	47.1	-89.88	5,179.2	-842.2	495.7	362.7	133.06	3.726		
12,700.0	7,589.0	8,071.8	7,478.3	93.2	47.1	-90.11	5,179.2	-842.2	477.7	342.9	134.80	3.544		
12,737.9	7,589.0	8,072.5	7,479.0	93.9	47.1	-90.19	5,179.3	-842.1	476.2	340.7	135.45	3.515	CC, ES, SF	
12,800.0	7,589.0	8,073.7	7,480.2	94.9	47.1	-90.33	5,179.3	-842.1	480.2	343.7	136.53	3.517		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 136-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,400.0	7,589.0	7,664.4	7,474.4	105.4	26.9	87.16	6,280.4	-324.4	434.1	305.1	129.04	3.364		
13,500.0	7,589.0	7,665.1	7,475.1	107.1	26.9	87.80	6,280.4	-324.4	335.4	204.5	130.85	2.563		
13,600.0	7,589.0	7,666.0	7,476.0	108.8	26.9	88.66	6,280.4	-324.4	237.7	105.1	132.65	1.792		
13,700.0	7,589.0	7,666.5	7,476.5	110.6	26.9	89.10	6,280.4	-324.4	143.3	8.9	134.42	1.066	Level 2	
13,800.0	7,589.0	7,667.2	7,477.1	112.3	26.9	89.76	6,280.4	-324.4	67.7	-68.5	136.18	0.497	Level 1	
13,830.1	7,589.0	7,667.4	7,477.4	112.8	26.9	89.95	6,280.4	-324.4	60.7	-76.1	136.73	0.444	Level 1, CC, ES, SF	
13,900.0	7,589.0	7,667.8	7,477.8	114.1	26.9	90.41	6,280.4	-324.4	92.4	-45.5	137.99	0.670	Level 1	
14,000.0	7,589.0	7,668.5	7,478.5	115.8	26.9	91.02	6,280.4	-324.4	179.7	40.0	139.77	1.286	Level 3	
14,100.0	7,589.0	7,669.2	7,479.2	117.5	26.9	91.55	6,280.4	-324.4	275.4	133.9	141.49	1.946		
14,200.0	7,589.0	7,669.9	7,479.9	119.3	26.9	91.97	6,280.4	-324.4	373.0	229.8	143.18	2.605		
14,300.0	7,589.0	7,670.6	7,480.6	121.0	26.9	92.28	6,280.4	-324.4	471.4	326.5	144.83	3.255		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													Offset Site Error:	0.0 ft	
Survey Program: 8376-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
11,200.0	7,589.0	7,485.0	7,485.0	67.3	13.1	-90.00	4,078.1	-447.1	441.6	361.4	80.18	5.508			
11,300.0	7,589.0	7,485.0	7,485.0	69.0	13.1	-90.00	4,078.1	-447.1	345.0	263.1	81.90	4.212			
11,400.0	7,589.0	7,485.0	7,485.0	70.7	13.1	-90.00	4,078.1	-447.1	251.0	167.4	83.63	3.002			
11,500.0	7,589.0	7,485.0	7,485.0	72.4	13.1	-90.00	4,078.1	-447.1	164.3	79.0	85.35	1.925			
11,600.0	7,589.0	7,485.0	7,485.0	74.2	13.1	-90.00	4,078.1	-447.1	104.8	17.8	87.08	1.204	Level 2		
11,630.1	7,589.0	7,485.0	7,485.0	74.7	13.1	-90.00	4,078.1	-447.1	100.4	12.8	87.60	1.146	Level 2, CC, ES, SF		
11,700.0	7,589.0	7,485.0	7,485.0	75.9	13.1	-90.00	4,078.1	-447.1	122.4	33.6	88.81	1.378	Level 3		
11,800.0	7,589.0	7,485.0	7,485.0	77.6	13.1	-90.00	4,078.1	-447.1	197.4	106.9	90.53	2.180			
11,900.0	7,589.0	7,485.0	7,485.0	79.3	13.1	-90.00	4,078.1	-447.1	288.0	195.8	92.26	3.122			
12,000.0	7,589.0	7,485.0	7,485.0	81.1	13.1	-90.00	4,078.1	-447.1	383.3	289.3	93.99	4.078			
12,100.0	7,589.0	7,485.0	7,485.0	82.8	13.1	-90.00	4,078.1	-447.1	480.6	384.8	95.73	5.020			

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 3F-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 3F-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													Offset Site Error:	0.0 ft	
Survey Program: 8100-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset															
Semi Major Axis															
Distance															
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
11,900.0	7,589.0	7,488.0	7,488.0	79.3	13.1	90.00	4,584.8	40.3	456.8	364.5	92.27	4.951			
12,000.0	7,589.0	7,488.0	7,488.0	81.1	13.1	90.00	4,584.8	40.3	416.0	322.0	94.00	4.425			
12,100.0	7,589.0	7,488.0	7,488.0	82.8	13.1	90.00	4,584.8	40.3	396.7	301.0	95.73	4.144			
12,128.2	7,589.0	7,488.0	7,488.0	83.3	13.1	90.00	4,584.8	40.3	395.7	299.5	96.22	4.113	CC, ES, SF		
12,200.0	7,589.0	7,488.0	7,488.0	84.5	13.1	90.00	4,584.8	40.3	402.2	304.7	97.46	4.127			
12,300.0	7,589.0	7,488.0	7,488.0	86.3	13.1	90.00	4,584.8	40.3	431.4	332.2	99.20	4.349			
12,400.0	7,589.0	7,488.0	7,488.0	88.0	13.1	90.00	4,584.8	40.3	480.1	379.2	100.93	4.757			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													Offset Site Error:	0.0 ft	
Survey Program: 8112-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
10,100.0	7,589.0	7,521.0	7,521.0	48.6	13.1	90.00	2,961.6	-181.8	434.1	372.7	61.46	7.064			
10,200.0	7,589.0	7,521.0	7,521.0	50.3	13.1	90.00	2,961.6	-181.8	341.6	278.4	63.15	5.409			
10,300.0	7,589.0	7,521.0	7,521.0	51.9	13.1	90.00	2,961.6	-181.8	254.7	189.8	64.85	3.927			
10,400.0	7,589.0	7,521.0	7,521.0	53.6	13.1	90.00	2,961.6	-181.8	181.8	115.2	66.55	2.731			
10,500.0	7,589.0	7,521.0	7,521.0	55.3	13.1	90.00	2,961.6	-181.8	145.7	77.4	68.25	2.135			
10,509.1	7,589.0	7,521.0	7,521.0	55.5	13.1	90.00	2,961.6	-181.8	145.4	77.0	68.40	2.126	CC, ES, SF		
10,600.0	7,589.0	7,521.0	7,521.0	57.0	13.1	90.00	2,961.6	-181.8	171.5	101.5	69.95	2.451			
10,700.0	7,589.0	7,521.0	7,521.0	58.7	13.1	90.00	2,961.6	-181.8	240.0	168.3	71.66	3.349			
10,800.0	7,589.0	7,521.0	7,521.0	60.4	13.1	90.00	2,961.6	-181.8	325.2	251.9	73.38	4.433			
10,900.0	7,589.0	7,521.0	7,521.0	62.2	13.1	90.00	2,961.6	-181.8	417.1	342.0	75.09	5.555			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													Offset Site Error:	0.0 ft	
S22-T2N-R68W (Jillson-East Rinn) - JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Well Error:		0.0 ft
Survey Program: 73-Geolink MWD															
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		
2,700.0	2,697.4	2,850.2	2,763.5	5.1	12.6	153.55	375.7	120.6	496.9	479.6	17.26	28.796			
2,800.0	2,797.3	2,945.0	2,853.2	5.3	13.1	156.89	350.3	137.5	484.7	466.7	17.96	26.980			
2,900.0	2,897.2	3,031.6	2,935.3	5.4	13.6	160.08	327.7	153.4	475.1	456.5	18.61	25.527			
3,000.0	2,997.0	3,128.1	3,027.0	5.6	14.1	163.67	303.7	171.3	468.6	449.3	19.29	24.294			
3,100.0	3,096.9	3,220.1	3,114.5	5.8	14.6	167.15	280.7	188.1	463.8	443.9	19.91	23.297			
3,200.0	3,196.8	3,312.7	3,202.9	6.0	15.1	170.60	258.6	204.8	461.8	441.3	20.49	22.536			
3,236.2	3,232.9	3,346.7	3,235.4	6.1	15.2	171.84	250.7	210.8	461.7	441.0	20.68	22.319	CC, ES		
3,300.0	3,296.7	3,406.0	3,292.4	6.2	15.5	173.91	237.6	220.8	462.1	441.1	21.01	21.990			
3,400.0	3,396.6	3,499.7	3,382.5	6.4	16.0	177.08	217.7	236.5	464.6	443.1	21.51	21.603			
3,500.0	3,496.5	3,609.7	3,488.4	6.6	16.5	-179.24	193.3	253.8	467.4	445.4	22.02	21.229			
3,600.0	3,596.3	3,707.6	3,582.5	6.8	17.0	-175.96	170.2	268.0	470.1	447.6	22.46	20.927			
3,700.0	3,696.2	3,796.3	3,667.5	7.0	17.4	-172.94	149.1	281.8	475.1	452.3	22.86	20.787			
3,800.0	3,796.1	3,892.0	3,759.1	7.2	18.0	-169.71	126.7	298.1	483.2	459.9	23.24	20.786	SF		
3,900.0	3,896.0	3,994.6	3,857.0	7.4	18.5	-166.22	100.9	314.9	491.5	467.9	23.59	20.834			

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 3F-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 3F-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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 5060-Geolink MWD														
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	
0.0	0.0	0.0	0.0	0.0	0.0	-15.36	397.1	-109.1	412.7					
100.0	100.0	72.0	72.0	0.1	0.1	-15.36	397.1	-109.1	411.8	411.5	0.26	1,603.753		
200.0	200.0	172.0	172.0	0.3	0.3	-15.36	397.1	-109.1	411.8	411.2	0.61	679.705		
300.0	300.0	272.0	272.0	0.5	0.5	-15.36	397.1	-109.1	411.8	410.8	0.95	431.236 CC		
400.0	400.0	372.0	372.0	0.7	0.6	113.16	397.1	-109.1	412.1	410.8	1.30	315.920 ES		
500.0	500.0	472.0	472.0	0.8	0.8	113.48	397.1	-109.1	413.2	411.5	1.66	249.331		
600.0	599.9	571.9	571.9	1.0	1.0	114.02	397.1	-109.1	414.9	412.9	2.01	205.964		
700.0	699.7	671.7	671.7	1.2	1.2	114.63	397.1	-109.1	416.9	414.5	2.37	175.605		
800.0	799.6	771.6	771.6	1.4	1.3	115.23	397.1	-109.1	418.9	416.2	2.73	153.184		
900.0	899.5	871.5	871.5	1.6	1.5	115.82	397.1	-109.1	421.0	417.9	3.10	135.974		
1,000.0	999.4	971.4	971.4	1.8	1.7	116.41	397.1	-109.1	423.2	419.7	3.46	122.364		
1,100.0	1,099.3	1,071.3	1,071.3	2.0	1.9	117.00	397.1	-109.1	425.3	421.5	3.82	111.339		
1,200.0	1,199.2	1,171.2	1,171.2	2.2	2.0	117.58	397.1	-109.1	427.6	423.4	4.18	102.233		
1,300.0	1,299.0	1,271.0	1,271.0	2.4	2.2	118.15	397.1	-109.1	429.8	425.3	4.54	94.588		
1,400.0	1,398.9	1,370.9	1,370.9	2.5	2.4	118.71	397.1	-109.1	432.1	427.2	4.91	88.081		
1,500.0	1,498.8	1,470.8	1,470.8	2.7	2.6	119.27	397.1	-109.1	434.5	429.2	5.27	82.479		
1,600.0	1,598.7	1,570.7	1,570.7	2.9	2.7	119.83	397.1	-109.1	436.9	431.3	5.63	77.607		
1,700.0	1,698.6	1,670.6	1,670.6	3.1	2.9	120.37	397.1	-109.1	439.3	433.3	5.99	73.333		
1,800.0	1,798.5	1,770.5	1,770.5	3.3	3.1	120.92	397.1	-109.1	441.8	435.4	6.35	69.553		
1,900.0	1,898.3	1,870.3	1,870.3	3.5	3.3	121.45	397.1	-109.1	444.3	437.6	6.71	66.188		
2,000.0	1,998.2	1,970.2	1,970.2	3.7	3.4	121.98	397.1	-109.1	446.8	439.8	7.07	63.174		
2,100.0	2,098.1	2,070.1	2,070.1	3.9	3.6	122.50	397.1	-109.1	449.4	442.0	7.43	60.460		
2,200.0	2,198.0	2,170.0	2,170.0	4.1	3.8	123.02	397.1	-109.1	452.1	444.3	7.79	58.003		
2,300.0	2,297.9	2,269.9	2,269.9	4.3	4.0	123.53	397.1	-109.1	454.7	446.6	8.15	55.770		
2,400.0	2,397.8	2,369.8	2,369.8	4.5	4.1	124.04	397.1	-109.1	457.4	448.9	8.51	53.731		
2,500.0	2,497.6	2,469.6	2,469.6	4.7	4.3	124.54	397.1	-109.1	460.1	451.3	8.87	51.863		
2,600.0	2,597.5	2,569.5	2,569.5	4.9	4.5	125.03	397.1	-109.1	462.9	453.7	9.23	50.146		
2,700.0	2,697.4	2,669.4	2,669.4	5.1	4.7	125.52	397.1	-109.1	465.7	456.1	9.59	48.562		
2,800.0	2,797.3	2,769.3	2,769.3	5.3	4.8	126.00	397.1	-109.1	468.5	458.6	9.95	47.097		
2,900.0	2,897.2	2,869.2	2,869.2	5.4	5.0	126.48	397.1	-109.1	471.4	461.1	10.31	45.738		
3,000.0	2,997.0	2,969.0	2,969.0	5.6	5.2	126.95	397.1	-109.1	474.3	463.6	10.66	44.475		
3,100.0	3,096.9	3,068.9	3,068.9	5.8	5.4	127.41	397.1	-109.1	477.2	466.2	11.02	43.298		
3,200.0	3,196.8	3,168.8	3,168.8	6.0	5.5	127.87	397.1	-109.1	480.2	468.8	11.38	42.198		
3,300.0	3,296.7	3,268.7	3,268.7	6.2	5.7	128.32	397.1	-109.1	483.2	471.5	11.74	41.169		
3,400.0	3,396.6	3,368.6	3,368.6	6.4	5.9	128.77	397.1	-109.1	486.2	474.1	12.09	40.203		
3,500.0	3,496.5	3,468.5	3,468.5	6.6	6.1	129.21	397.1	-109.1	489.3	476.8	12.45	39.297		
3,600.0	3,596.3	3,568.3	3,568.3	6.8	6.2	129.65	397.1	-109.1	492.3	479.5	12.81	38.444		
3,700.0	3,696.2	3,668.2	3,668.2	7.0	6.4	130.08	397.1	-109.1	495.4	482.3	13.16	37.640		
3,800.0	3,796.1	3,768.1	3,768.1	7.2	6.6	130.51	397.1	-109.1	498.6	485.1	13.52	36.880 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 3F-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 3F-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													Offset Site Error:	0.0 ft	
Survey Program: 8140-Geolink MWD													Offset Well Error:		0.0 ft
Reference: S22-T2N-R68W (Jillson-East Rinn) - JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - NO SURVE															
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		
7,900.0	7,588.5	7,550.5	7,550.5	16.0	13.2	-84.55	738.8	-461.7	428.1	399.7	28.36	15.094			
8,000.0	7,589.0	7,551.0	7,551.0	16.9	13.2	-90.00	738.8	-461.7	339.1	309.7	29.41	11.528			
8,100.0	7,589.0	7,551.0	7,551.0	18.0	13.2	-90.00	738.8	-461.7	258.3	227.7	30.52	8.462			
8,200.0	7,589.0	7,551.0	7,551.0	19.2	13.2	-90.00	738.8	-461.7	196.0	164.2	31.73	6.177			
8,291.5	7,589.0	7,551.0	7,551.0	20.3	13.2	-90.00	738.8	-461.7	173.3	140.4	32.90	5.267	CC, ES		
8,300.0	7,589.0	7,551.0	7,551.0	20.4	13.2	-90.00	738.8	-461.7	173.5	140.5	33.01	5.256	SF		
8,400.0	7,589.0	7,551.0	7,551.0	21.7	13.2	-90.00	738.8	-461.7	204.5	170.1	34.37	5.950			
8,500.0	7,589.0	7,551.0	7,551.0	23.1	13.2	-90.00	738.8	-461.7	271.2	235.4	35.78	7.578			
8,600.0	7,589.0	7,551.0	7,551.0	24.5	13.2	-90.00	738.8	-461.7	353.9	316.6	37.24	9.504			
8,700.0	7,589.0	7,551.0	7,551.0	26.0	13.2	-90.00	738.8	-461.7	443.8	405.0	38.73	11.459			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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	-89.97	0.0	-8.4	8.4						
100.0	100.0	100.0	100.0	0.1	0.1	-89.97	0.0	-8.4	8.4	8.1	0.26	32.048			
200.0	200.0	200.0	200.0	0.3	0.3	-89.97	0.0	-8.4	8.4	7.8	0.61	13.735 CC, ES			
300.0	300.0	299.9	299.8	0.5	0.5	-91.94	-0.3	-9.2	9.2	8.2	0.96	9.591			
400.0	400.0	399.7	399.6	0.7	0.7	34.64	-1.3	-11.6	11.0	9.7	1.31	8.384			
500.0	500.0	499.5	499.3	0.8	0.8	35.40	-2.8	-15.7	13.0	11.3	1.66	7.814			
600.0	599.9	599.2	598.9	1.0	1.0	37.59	-5.0	-21.3	15.3	13.2	2.02	7.564			
700.0	699.7	698.9	698.2	1.2	1.3	38.23	-7.9	-28.6	18.8	16.4	2.38	7.892			
800.0	799.6	798.5	797.5	1.4	1.5	37.25	-11.3	-37.3	23.7	21.0	2.74	8.677			
900.0	899.5	898.4	896.9	1.6	1.7	36.42	-14.8	-46.4	29.0	25.9	3.10	9.371			
1,000.0	999.4	998.3	996.2	1.8	2.0	35.85	-18.3	-55.4	34.3	30.8	3.46	9.921			
1,100.0	1,099.3	1,098.1	1,095.6	2.0	2.2	35.43	-21.9	-64.4	39.6	35.7	3.82	10.367			
1,200.0	1,199.2	1,198.0	1,195.0	2.2	2.4	35.10	-25.4	-73.5	44.8	40.7	4.18	10.737			
1,300.0	1,299.0	1,297.8	1,294.4	2.4	2.7	34.85	-28.9	-82.5	50.1	45.6	4.54	11.048			
1,400.0	1,398.9	1,397.7	1,393.8	2.5	2.9	34.64	-32.4	-91.5	55.4	50.5	4.90	11.313			
1,500.0	1,498.8	1,497.6	1,493.2	2.7	3.1	34.47	-36.0	-100.6	60.7	55.4	5.26	11.542			
1,600.0	1,598.7	1,597.4	1,592.6	2.9	3.4	34.33	-39.5	-109.6	65.9	60.3	5.62	11.742			
1,700.0	1,698.6	1,697.3	1,692.0	3.1	3.6	34.21	-43.0	-118.6	71.2	65.3	5.98	11.917			
1,800.0	1,798.5	1,797.1	1,791.4	3.3	3.9	34.10	-46.5	-127.6	76.5	70.2	6.34	12.072			
1,900.0	1,898.3	1,897.0	1,890.7	3.5	4.1	34.01	-50.1	-136.7	81.8	75.1	6.70	12.211			
2,000.0	1,998.2	1,996.9	1,990.1	3.7	4.4	33.93	-53.6	-145.7	87.1	80.0	7.06	12.336			
2,100.0	2,098.1	2,096.7	2,089.5	3.9	4.6	33.86	-57.1	-154.7	92.4	84.9	7.42	12.448			
2,200.0	2,198.0	2,196.6	2,188.9	4.1	4.8	33.80	-60.6	-163.8	97.6	89.9	7.78	12.550			
2,300.0	2,297.9	2,296.4	2,288.3	4.3	5.1	33.74	-64.2	-172.8	102.9	94.8	8.14	12.643			
2,400.0	2,397.8	2,396.3	2,387.7	4.5	5.3	33.69	-67.7	-181.8	108.2	99.7	8.50	12.728			
2,500.0	2,497.6	2,496.2	2,487.1	4.7	5.6	33.64	-71.2	-190.9	113.5	104.6	8.86	12.806			
2,600.0	2,597.5	2,596.0	2,586.5	4.9	5.8	33.60	-74.7	-199.9	118.8	109.5	9.22	12.878			
2,700.0	2,697.4	2,695.9	2,685.9	5.1	6.0	33.56	-78.3	-208.9	124.0	114.5	9.58	12.945			
2,800.0	2,797.3	2,795.7	2,785.2	5.3	6.3	33.52	-81.8	-217.9	129.3	119.4	9.94	13.007			
2,900.0	2,897.2	2,895.6	2,884.6	5.4	6.5	33.49	-85.3	-227.0	134.6	124.3	10.30	13.064			
3,000.0	2,997.0	2,995.5	2,984.0	5.6	6.8	33.46	-88.8	-236.0	139.9	129.2	10.66	13.118			
3,100.0	3,096.9	3,095.3	3,083.4	5.8	7.0	33.43	-92.4	-245.0	145.2	134.1	11.02	13.168			
3,200.0	3,196.8	3,195.2	3,182.8	6.0	7.3	33.41	-95.9	-254.1	150.4	139.1	11.39	13.214			
3,300.0	3,296.7	3,295.1	3,282.2	6.2	7.5	33.38	-99.4	-263.1	155.7	144.0	11.75	13.258			
3,400.0	3,396.6	3,394.9	3,381.6	6.4	7.7	33.36	-102.9	-272.1	161.0	148.9	12.11	13.300			
3,500.0	3,496.5	3,494.8	3,481.0	6.6	8.0	33.34	-106.5	-281.1	166.3	153.8	12.47	13.339			
3,600.0	3,596.3	3,594.6	3,580.4	6.8	8.2	33.32	-110.0	-290.2	171.6	158.7	12.83	13.376			
3,700.0	3,696.2	3,694.5	3,679.7	7.0	8.5	33.30	-113.5	-299.2	176.9	163.7	13.19	13.410			
3,800.0	3,796.1	3,794.4	3,779.1	7.2	8.7	33.28	-117.0	-308.2	182.1	168.6	13.55	13.443			
3,900.0	3,896.0	3,894.2	3,878.5	7.4	9.0	33.26	-120.6	-317.3	187.4	173.5	13.91	13.474			
4,000.0	3,995.9	3,994.1	3,977.9	7.6	9.2	33.25	-124.1	-326.3	192.7	178.4	14.27	13.504			
4,100.0	4,095.8	4,093.9	4,077.3	7.8	9.4	33.23	-127.6	-335.3	198.0	183.4	14.63	13.532			
4,200.0	4,195.6	4,193.8	4,176.7	8.0	9.7	33.22	-131.1	-344.4	203.3	188.3	14.99	13.559			
4,300.0	4,295.5	4,293.7	4,276.1	8.2	9.9	33.21	-134.6	-353.4	208.5	193.2	15.35	13.585			
4,400.0	4,395.4	4,393.5	4,375.5	8.4	10.2	33.19	-138.2	-362.4	213.8	198.1	15.71	13.609			
4,500.0	4,495.3	4,493.4	4,474.9	8.5	10.4	33.18	-141.7	-371.4	219.1	203.0	16.07	13.632			
4,600.0	4,595.2	4,593.2	4,574.2	8.7	10.7	33.17	-145.2	-380.5	224.4	208.0	16.43	13.655			
4,700.0	4,695.1	4,693.1	4,673.6	8.9	10.9	33.16	-148.7	-389.5	229.7	212.9	16.79	13.676			
4,800.0	4,794.9	4,793.0	4,773.0	9.1	11.1	33.15	-152.3	-398.5	235.0	217.8	17.15	13.696			
4,900.0	4,894.8	4,892.8	4,872.4	9.3	11.4	33.14	-155.8	-407.6	240.2	222.7	17.52	13.716			
5,000.0	4,994.7	4,992.7	4,971.8	9.5	11.6	33.13	-159.3	-416.6	245.5	227.6	17.88	13.735			
5,100.0	5,094.6	5,092.5	5,071.2	9.7	11.9	33.12	-162.8	-425.6	250.8	232.6	18.24	13.753			

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 3F-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 3F-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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,194.5	5,192.4	5,170.6	9.9	12.1	33.11	-166.4	-434.7	256.1	237.5	18.60	13.770		
5,300.0	5,294.3	5,292.3	5,270.0	10.1	12.4	33.10	-169.9	-443.7	261.4	242.4	18.96	13.787		
5,400.0	5,394.2	5,392.1	5,369.4	10.3	12.6	33.09	-173.4	-452.7	266.6	247.3	19.32	13.803		
5,500.0	5,494.1	5,492.0	5,468.7	10.5	12.9	33.08	-176.9	-461.7	271.9	252.3	19.68	13.818		
5,600.0	5,594.0	5,591.8	5,568.1	10.7	13.1	33.08	-180.5	-470.8	277.2	257.2	20.04	13.833		
5,700.0	5,693.9	5,691.7	5,667.5	10.9	13.3	33.07	-184.0	-479.8	282.5	262.1	20.40	13.847		
5,800.0	5,793.8	5,791.6	5,766.9	11.1	13.6	33.06	-187.5	-488.8	287.8	267.0	20.76	13.861		
5,900.0	5,893.6	5,891.4	5,866.3	11.3	13.8	33.06	-191.0	-497.9	293.1	271.9	21.12	13.875		
6,000.0	5,993.5	5,991.3	5,965.7	11.5	14.1	33.05	-194.6	-506.9	298.3	276.9	21.48	13.888		
6,100.0	6,093.4	6,091.1	6,065.1	11.7	14.3	33.04	-198.1	-515.9	303.6	281.8	21.84	13.900		
6,200.0	6,193.3	6,191.0	6,164.5	11.8	14.6	33.04	-201.6	-525.0	308.9	286.7	22.20	13.912		
6,300.0	6,293.2	6,290.9	6,263.9	12.0	14.8	33.03	-205.1	-534.0	314.2	291.6	22.56	13.924		
6,400.0	6,393.1	6,390.7	6,363.2	12.2	15.0	33.03	-208.7	-543.0	319.5	296.5	22.93	13.935		
6,500.0	6,492.9	6,490.6	6,462.6	12.4	15.3	33.02	-212.2	-552.0	324.8	301.5	23.29	13.946		
6,600.0	6,592.8	6,590.4	6,562.0	12.6	15.5	33.01	-215.7	-561.1	330.0	306.4	23.65	13.957		
6,700.0	6,692.7	6,690.3	6,661.4	12.8	15.8	33.01	-219.2	-570.1	335.3	311.3	24.01	13.967		
6,800.0	6,792.6	6,790.2	6,760.8	13.0	16.0	33.00	-222.8	-579.1	340.6	316.2	24.37	13.977		
6,900.0	6,892.5	6,890.1	6,864.2	13.2	16.2	34.00	-226.4	-588.5	345.4	320.6	24.76	13.950		
7,000.0	6,992.4	6,990.1	6,961.7	13.4	16.4	37.75	-230.0	-597.4	349.7	324.4	25.25	13.848		
7,100.0	7,092.0	7,089.8	7,067.9	13.5	16.4	-68.03	-167.6	-605.2	355.9	330.2	25.73	13.830		
7,200.0	7,189.5	7,187.4	7,164.2	13.6	16.5	-72.06	-123.4	-612.1	364.2	338.2	26.00	14.006		
7,300.0	7,281.6	7,280.7	7,260.7	13.7	16.6	-70.10	-70.1	-618.2	373.6	347.6	26.01	14.365		
7,400.0	7,365.7	7,364.2	7,343.2	13.7	16.7	-67.35	-9.7	-623.2	383.5	357.7	25.82	14.856		
7,500.0	7,439.2	7,438.5	7,421.8	13.9	16.9	-64.69	56.2	-627.4	392.9	367.4	25.52	15.399		
7,600.0	7,499.8	7,500.0	7,326.3	14.1	17.2	-62.45	124.4	-630.5	401.2	375.9	25.32	15.849		
7,700.0	7,545.7	7,579.6	7,352.2	14.6	17.6	-60.58	199.5	-632.9	407.8	382.3	25.48	16.003		
7,800.0	7,575.6	7,656.1	7,367.1	15.2	18.0	-59.27	274.5	-634.2	412.2	386.0	26.20	15.732		
7,900.0	7,588.5	7,732.2	7,372.0	16.0	18.6	-58.47	350.4	-634.7	414.2	386.6	27.60	15.007		
8,000.0	7,589.0	7,832.2	7,372.0	16.9	19.4	-58.29	450.4	-634.7	412.9	383.5	29.37	14.059		
8,100.0	7,589.0	7,932.2	7,372.0	18.0	20.3	-58.16	550.4	-634.7	411.4	380.2	31.21	13.182		
8,200.0	7,589.0	8,032.2	7,372.0	19.2	21.3	-58.04	650.3	-634.7	410.0	376.7	33.21	12.343		
8,300.0	7,589.0	8,132.2	7,372.0	20.4	22.4	-57.91	750.3	-634.7	408.5	373.1	35.34	11.558		
8,400.0	7,589.0	8,232.1	7,372.0	21.7	23.6	-57.78	850.3	-634.7	407.0	369.4	37.58	10.831		
8,500.0	7,589.0	8,332.1	7,372.0	23.1	24.9	-57.64	950.3	-634.7	405.5	365.6	39.90	10.164		
8,600.0	7,589.0	8,432.1	7,372.0	24.5	26.2	-57.51	1,050.3	-634.7	404.0	361.8	42.29	9.555		
8,700.0	7,589.0	8,532.1	7,372.0	26.0	27.6	-57.38	1,150.3	-634.7	402.6	357.8	44.73	9.000		
8,800.0	7,589.0	8,632.1	7,372.0	27.5	29.0	-57.24	1,250.3	-634.7	401.1	353.9	47.22	8.494		
8,900.0	7,589.0	8,732.1	7,372.0	29.0	30.4	-57.11	1,350.2	-634.7	399.6	349.9	49.75	8.033		
9,000.0	7,589.0	8,832.0	7,372.0	30.6	31.9	-56.97	1,450.2	-634.7	398.2	345.9	52.31	7.612		
9,100.0	7,589.0	8,932.0	7,372.0	32.2	33.4	-56.84	1,550.2	-634.7	396.7	341.8	54.89	7.227		
9,200.0	7,589.0	9,032.0	7,372.0	33.7	34.9	-56.70	1,650.2	-634.7	395.3	337.8	57.50	6.874		
9,300.0	7,589.0	9,132.0	7,372.0	35.4	36.5	-56.56	1,750.2	-634.7	393.8	333.7	60.11	6.551		
9,400.0	7,589.0	9,232.0	7,372.0	37.0	38.1	-56.42	1,850.2	-634.7	392.3	329.6	62.74	6.253		
9,500.0	7,589.0	9,332.0	7,372.0	38.6	39.6	-56.28	1,950.1	-634.7	390.9	325.5	65.38	5.978		
9,600.0	7,589.0	9,432.0	7,372.0	40.2	41.2	-56.13	2,050.1	-634.7	389.4	321.4	68.03	5.725		
9,700.0	7,589.0	9,531.9	7,372.0	41.9	42.8	-55.99	2,150.1	-634.7	388.0	317.3	70.68	5.490		
9,800.0	7,589.0	9,631.9	7,372.0	43.6	44.5	-55.84	2,250.1	-634.7	386.5	313.2	73.33	5.271		
9,900.0	7,589.0	9,731.9	7,372.0	45.2	46.1	-55.70	2,350.1	-634.7	385.1	309.1	75.98	5.068		
10,000.0	7,589.0	9,831.9	7,372.0	46.9	47.7	-55.55	2,450.1	-634.7	383.7	305.0	78.63	4.879		
10,100.0	7,589.0	9,931.9	7,372.0	48.6	49.4	-55.40	2,550.1	-634.7	382.2	300.9	81.28	4.702		
10,200.0	7,589.0	10,031.9	7,372.0	50.3	51.0	-55.25	2,650.0	-634.7	380.8	296.9	83.93	4.537		
10,300.0	7,589.0	10,131.9	7,372.0	51.9	52.7	-55.10	2,750.0	-634.7	379.4	292.8	86.57	4.382		

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 3F-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 3F-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference: S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1															
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	7,589.0	10,231.8	7,372.0	53.6	54.3	-54.95	2,850.0	-634.7	377.9	288.7	89.21	4.236			
10,500.0	7,589.0	10,331.8	7,372.0	55.3	56.0	-54.80	2,950.0	-634.7	376.5	284.7	91.84	4.099			
10,600.0	7,589.0	10,431.8	7,372.0	57.0	57.7	-54.65	3,050.0	-634.7	375.1	280.6	94.47	3.970			
10,700.0	7,589.0	10,531.8	7,372.0	58.7	59.4	-54.49	3,150.0	-634.7	373.7	276.6	97.09	3.849			
10,800.0	7,589.0	10,631.8	7,372.0	60.4	61.1	-54.34	3,250.0	-634.7	372.2	272.5	99.70	3.734			
10,900.0	7,589.0	10,731.8	7,372.0	62.2	62.7	-54.18	3,349.9	-634.7	370.8	268.5	102.30	3.625			
11,000.0	7,589.0	10,831.7	7,372.0	63.9	64.4	-54.02	3,449.9	-634.7	369.4	264.5	104.89	3.522			
11,100.0	7,589.0	10,931.7	7,372.0	65.6	66.1	-53.86	3,549.9	-634.7	368.0	260.5	107.47	3.424			
11,200.0	7,589.0	11,031.7	7,372.0	67.3	67.8	-53.70	3,649.9	-634.7	366.6	256.5	110.05	3.331			
11,300.0	7,589.0	11,131.7	7,372.0	69.0	69.5	-53.54	3,749.9	-634.7	365.2	252.6	112.61	3.243			
11,400.0	7,589.0	11,231.7	7,372.0	70.7	71.2	-53.37	3,849.9	-634.7	363.8	248.6	115.16	3.159			
11,500.0	7,589.0	11,331.7	7,372.0	72.4	72.9	-53.21	3,949.8	-634.7	362.4	244.7	117.70	3.079			
11,600.0	7,589.0	11,431.7	7,372.0	74.2	74.6	-53.04	4,049.8	-634.7	361.0	240.8	120.23	3.002			
11,700.0	7,589.0	11,531.6	7,372.0	75.9	76.3	-52.88	4,149.8	-634.7	359.6	236.8	122.74	2.930			
11,800.0	7,589.0	11,631.6	7,372.0	77.6	78.1	-52.71	4,249.8	-634.7	358.2	232.9	125.25	2.860			
11,900.0	7,589.0	11,731.6	7,372.0	79.3	79.8	-52.54	4,349.8	-634.7	356.8	229.1	127.74	2.793			
12,000.0	7,589.0	11,831.6	7,372.0	81.1	81.5	-52.37	4,449.8	-634.7	355.4	225.2	130.21	2.730			
12,100.0	7,589.0	11,931.6	7,372.0	82.8	83.2	-52.20	4,549.8	-634.7	354.0	221.4	132.67	2.669			
12,200.0	7,589.0	12,031.6	7,372.0	84.5	84.9	-52.02	4,649.7	-634.7	352.7	217.5	135.12	2.610			
12,300.0	7,589.0	12,131.5	7,372.0	86.3	86.6	-51.85	4,749.7	-634.7	351.3	213.7	137.55	2.554			
12,400.0	7,589.0	12,231.5	7,372.0	88.0	88.4	-51.67	4,849.7	-634.7	349.9	209.9	139.97	2.500			
12,500.0	7,589.0	12,331.5	7,372.0	89.7	90.1	-51.49	4,949.7	-634.7	348.6	206.2	142.37	2.448			
12,600.0	7,589.0	12,431.5	7,372.0	91.5	91.8	-51.31	5,049.7	-634.7	347.2	202.4	144.76	2.398			
12,700.0	7,589.0	12,531.5	7,372.0	93.2	93.5	-51.13	5,149.7	-634.7	345.8	198.7	147.13	2.350			
12,800.0	7,589.0	12,631.5	7,372.0	94.9	95.3	-50.95	5,249.6	-634.7	344.5	195.0	149.49	2.304			
12,900.0	7,589.0	12,731.5	7,372.0	96.7	97.0	-50.77	5,349.6	-634.7	343.1	191.3	151.82	2.260			
13,000.0	7,589.0	12,831.4	7,372.0	98.4	98.7	-50.58	5,449.6	-634.7	341.8	187.6	154.14	2.217			
13,100.0	7,589.0	12,931.4	7,372.0	100.1	100.4	-50.39	5,549.6	-634.7	340.4	184.0	156.44	2.176			
13,200.0	7,589.0	13,031.4	7,372.0	101.9	102.2	-50.21	5,649.6	-634.7	339.1	180.4	158.73	2.136			
13,300.0	7,589.0	13,131.4	7,372.0	103.6	103.9	-50.02	5,749.6	-634.7	337.7	176.7	160.99	2.098			
13,400.0	7,589.0	13,231.4	7,372.0	105.4	105.6	-49.83	5,849.6	-634.7	336.4	173.2	163.24	2.061			
13,500.0	7,589.0	13,331.4	7,372.0	107.1	107.4	-49.63	5,949.5	-634.7	335.1	169.6	165.47	2.025			
13,600.0	7,589.0	13,431.3	7,372.0	108.8	109.1	-49.44	6,049.5	-634.7	333.7	166.1	167.68	1.990			
13,700.0	7,589.0	13,531.3	7,372.0	110.6	110.8	-49.24	6,149.5	-634.7	332.4	162.6	169.87	1.957			
13,800.0	7,589.0	13,631.3	7,372.0	112.3	112.6	-49.05	6,249.5	-634.7	331.1	159.1	172.04	1.925			
13,900.0	7,589.0	13,731.3	7,372.0	114.1	114.3	-48.91	6,349.5	-634.7	330.2	156.0	174.20	1.895			
13,924.1	7,589.0	13,755.4	7,372.0	114.5	114.7	-48.90	6,373.6	-634.7	330.1	155.3	174.78	1.889			
14,000.0	7,589.0	13,831.3	7,372.0	115.8	116.0	-48.96	6,449.5	-634.7	330.5	153.8	176.74	1.870			
14,100.0	7,589.0	13,931.3	7,372.0	117.5	117.8	-49.20	6,549.5	-634.7	332.2	152.5	179.71	1.848			
14,200.0	7,589.0	14,031.2	7,372.0	119.3	119.5	-49.62	6,649.4	-634.7	335.2	152.0	183.11	1.830			
14,300.0	7,589.0	14,131.0	7,372.0	121.0	121.2	-50.21	6,749.2	-634.7	339.5	152.6	186.91	1.816			
14,400.0	7,589.0	14,230.8	7,372.0	122.7	123.0	-50.96	6,848.9	-634.7	345.3	154.2	191.07	1.807			
14,500.0	7,589.0	14,330.4	7,372.0	124.5	124.7	-51.86	6,948.5	-634.7	352.3	156.5	195.78	1.799			
14,600.0	7,589.0	14,429.9	7,372.0	126.2	126.4	-52.77	7,048.1	-634.7	359.7	158.8	200.84	1.791			
14,700.0	7,589.0	14,529.5	7,372.0	127.9	128.2	-53.65	7,147.7	-634.7	367.1	161.3	205.82	1.784			
14,800.0	7,589.0	14,629.1	7,372.0	129.7	129.9	-54.49	7,247.2	-634.7	374.7	163.9	210.73	1.778			
14,900.0	7,589.0	14,728.6	7,372.0	131.4	131.6	-55.30	7,346.8	-634.7	382.3	166.7	215.58	1.773			
15,000.0	7,589.0	14,828.2	7,372.0	133.1	133.4	-56.07	7,446.4	-634.7	390.0	169.6	220.37	1.770			
15,100.0	7,589.0	14,927.8	7,372.0	134.9	135.1	-56.82	7,545.9	-634.7	397.7	172.6	225.10	1.767			
15,200.0	7,589.0	15,027.3	7,372.0	136.6	136.8	-57.54	7,645.5	-634.7	405.5	175.8	229.77	1.765			
15,273.9	7,589.0	15,100.9	7,372.0	137.9	138.1	-58.05	7,719.1	-634.7	411.4	178.2	233.20	1.764 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 3F-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 3F-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 3G-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	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	400.0	400.0	0.7	0.7	-144.20	0.0	11.2	11.9	10.6	1.31	9.077			
500.0	500.0	500.0	500.0	0.8	0.8	-150.43	0.0	11.2	14.1	12.4	1.66	8.494			
600.0	599.9	599.9	599.9	1.0	1.0	-157.23	0.0	11.2	18.0	16.0	2.01	8.950			
700.0	699.7	699.7	699.7	1.2	1.2	-162.00	0.0	11.2	22.5	20.2	2.36	9.552			
800.0	799.6	799.6	799.6	1.4	1.4	-165.16	0.0	11.2	27.2	24.5	2.71	10.039			
900.0	899.5	899.5	899.5	1.6	1.5	-167.39	0.0	11.2	31.9	28.8	3.06	10.433			
1,000.0	999.4	999.4	999.4	1.8	1.7	-169.05	0.0	11.2	36.6	33.2	3.40	10.758			
1,100.0	1,099.3	1,099.3	1,099.3	2.0	1.9	-170.32	0.0	11.2	41.4	37.6	3.75	11.029			
1,200.0	1,199.2	1,199.2	1,199.2	2.2	2.0	-171.33	0.0	11.2	46.2	42.1	4.10	11.257			
1,300.0	1,299.0	1,299.0	1,299.0	2.4	2.2	-172.15	0.0	11.2	51.0	46.5	4.45	11.452			
1,400.0	1,398.9	1,398.9	1,398.9	2.5	2.4	-172.83	0.0	11.2	55.8	51.0	4.80	11.621			
1,500.0	1,498.8	1,498.8	1,498.8	2.7	2.6	-173.40	0.0	11.2	60.6	55.4	5.15	11.768			
1,600.0	1,598.7	1,598.7	1,598.7	2.9	2.7	-173.89	0.0	11.2	65.4	59.9	5.50	11.898			
1,700.0	1,698.6	1,698.6	1,698.6	3.1	2.9	-174.31	0.0	11.2	70.2	64.4	5.84	12.013			
1,800.0	1,798.5	1,798.5	1,798.5	3.3	3.1	-174.68	0.0	11.2	75.0	68.8	6.19	12.115			
1,900.0	1,898.3	1,898.3	1,898.3	3.5	3.3	-175.00	0.0	11.2	79.9	73.3	6.54	12.207			
2,000.0	1,998.2	1,998.2	1,998.2	3.7	3.4	-175.29	0.0	11.2	84.7	77.8	6.89	12.289			
2,100.0	2,098.1	2,098.1	2,098.1	3.9	3.6	-175.54	0.0	11.2	89.5	82.3	7.24	12.364			
2,200.0	2,198.0	2,198.0	2,198.0	4.1	3.8	-175.77	0.0	11.2	94.3	86.8	7.59	12.433			
2,300.0	2,297.9	2,297.9	2,297.9	4.3	4.0	-175.98	0.0	11.2	99.2	91.2	7.94	12.495			
2,400.0	2,397.8	2,397.8	2,397.8	4.5	4.1	-176.16	0.0	11.2	104.0	95.7	8.29	12.553			
2,500.0	2,497.6	2,497.6	2,497.6	4.7	4.3	-176.33	0.0	11.2	108.8	100.2	8.63	12.606			
2,600.0	2,597.5	2,597.9	2,597.9	4.9	4.5	-176.08	-0.8	11.5	113.5	104.5	8.98	12.632			
2,700.0	2,697.4	2,698.2	2,698.2	5.1	4.7	-175.01	-3.2	12.5	117.8	108.5	9.34	12.617			
2,800.0	2,797.3	2,798.5	2,798.3	5.3	4.8	-173.20	-7.2	14.1	121.8	112.1	9.69	12.571			
2,900.0	2,897.2	2,898.4	2,898.1	5.4	5.0	-170.89	-12.5	16.2	125.8	115.7	10.05	12.516			
3,000.0	2,997.0	2,998.2	2,997.7	5.6	5.2	-168.66	-17.9	18.4	129.9	119.5	10.41	12.478			
3,100.0	3,096.9	3,098.0	3,097.3	5.8	5.4	-166.58	-23.4	20.6	134.2	123.5	10.78	12.457			
3,200.0	3,196.8	3,197.8	3,197.0	6.0	5.6	-164.63	-28.8	22.8	138.7	127.6	11.14	12.449			
3,300.0	3,296.7	3,297.6	3,296.6	6.2	5.8	-162.81	-34.2	25.0	143.4	131.8	11.51	12.452			
3,400.0	3,396.6	3,397.4	3,396.2	6.4	5.9	-161.09	-39.6	27.2	148.1	136.2	11.88	12.465			
3,500.0	3,496.5	3,497.1	3,495.8	6.6	6.1	-159.49	-45.0	29.4	153.0	140.8	12.26	12.485			
3,600.0	3,596.3	3,596.9	3,595.4	6.8	6.3	-157.99	-50.4	31.6	158.0	145.4	12.63	12.511			
3,700.0	3,696.2	3,696.7	3,695.1	7.0	6.5	-156.58	-55.9	33.8	163.1	150.1	13.01	12.543			
3,800.0	3,796.1	3,796.5	3,794.7	7.2	6.7	-155.26	-61.3	36.0	168.4	155.0	13.38	12.579			
3,900.0	3,896.0	3,896.3	3,894.3	7.4	6.9	-154.01	-66.7	38.2	173.6	159.9	13.76	12.618			
4,000.0	3,995.9	3,996.1	3,993.9	7.6	7.1	-152.85	-72.1	40.3	179.0	164.9	14.14	12.660			
4,100.0	4,095.8	4,095.9	4,093.5	7.8	7.3	-151.74	-77.5	42.5	184.4	169.9	14.52	12.704			
4,200.0	4,195.6	4,195.7	4,193.2	8.0	7.5	-150.71	-83.0	44.7	189.9	175.0	14.90	12.750			
4,300.0	4,295.5	4,295.5	4,292.8	8.2	7.6	-149.73	-88.4	46.9	195.5	180.2	15.28	12.797			
4,400.0	4,395.4	4,395.3	4,392.4	8.4	7.8	-148.80	-93.8	49.1	201.1	185.5	15.66	12.845			
4,500.0	4,495.3	4,495.1	4,492.0	8.5	8.0	-147.93	-99.2	51.3	206.8	190.7	16.04	12.893			
4,600.0	4,595.2	4,594.9	4,591.6	8.7	8.2	-147.10	-104.6	53.5	212.5	196.1	16.42	12.942			
4,700.0	4,695.1	4,694.6	4,691.3	8.9	8.4	-146.32	-110.0	55.7	218.2	201.4	16.80	12.991			
4,800.0	4,794.9	4,794.4	4,790.9	9.1	8.6	-145.57	-115.5	57.9	224.0	206.8	17.18	13.040			
4,900.0	4,894.8	4,894.2	4,890.5	9.3	8.8	-144.87	-120.9	60.1	229.8	212.3	17.56	13.088			
5,000.0	4,994.7	4,994.0	4,990.1	9.5	9.0	-144.20	-126.3	62.3	235.7	217.8	17.94	13.137			
5,100.0	5,094.6	5,093.8	5,089.7	9.7	9.2	-143.56	-131.7	64.4	241.6	223.3	18.32	13.185			

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 3F-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 3F-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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,194.5	5,193.6	5,189.4	9.9	9.4	-142.95	-137.1	66.6	247.5	228.8	18.70	13.233		
5,300.0	5,294.3	5,293.4	5,289.0	10.1	9.6	-142.37	-142.6	68.8	253.4	234.4	19.08	13.280		
5,400.0	5,394.2	5,393.2	5,388.6	10.3	9.8	-141.82	-148.0	71.0	259.4	239.9	19.47	13.326		
5,500.0	5,494.1	5,493.0	5,488.2	10.5	10.0	-141.29	-153.4	73.2	265.4	245.5	19.85	13.372		
5,600.0	5,594.0	5,592.8	5,587.8	10.7	10.2	-140.78	-158.8	75.4	271.4	251.2	20.23	13.418		
5,700.0	5,693.9	5,692.6	5,687.5	10.9	10.4	-140.30	-164.2	77.6	277.4	256.8	20.61	13.462		
5,800.0	5,793.8	5,792.3	5,787.1	11.1	10.6	-139.84	-169.6	79.8	283.5	262.5	20.99	13.506		
5,900.0	5,893.6	5,892.1	5,886.7	11.3	10.8	-139.40	-175.1	82.0	289.6	268.2	21.37	13.549		
6,000.0	5,993.5	5,991.9	5,986.3	11.5	11.0	-138.97	-180.5	84.2	295.6	273.9	21.75	13.592		
6,100.0	6,093.4	6,091.7	6,085.9	11.7	11.2	-138.56	-185.9	86.4	301.7	279.6	22.13	13.633		
6,200.0	6,193.3	6,191.5	6,185.6	11.8	11.4	-138.17	-191.3	88.5	307.9	285.3	22.51	13.674		
6,300.0	6,293.2	6,291.3	6,285.2	12.0	11.6	-137.79	-196.7	90.7	314.0	291.1	22.89	13.715		
6,400.0	6,393.1	6,391.1	6,384.8	12.2	11.8	-137.43	-202.2	92.9	320.1	296.8	23.27	13.754		
6,500.0	6,492.9	6,490.9	6,484.4	12.4	12.0	-137.08	-207.6	95.1	326.3	302.6	23.66	13.793		
6,600.0	6,592.8	6,590.7	6,584.0	12.6	12.2	-136.75	-213.0	97.3	332.4	308.4	24.04	13.831		
6,700.0	6,692.7	6,690.5	6,683.7	12.8	12.4	-136.43	-218.4	99.5	338.6	314.2	24.42	13.868		
6,800.0	6,792.6	6,791.2	6,784.2	13.0	12.6	-136.15	-223.7	101.7	344.8	320.0	24.79	13.906		
6,900.0	6,892.5	6,895.7	6,888.3	13.2	12.7	-137.86	-216.9	104.0	350.0	324.9	25.08	13.958		
7,000.0	6,992.4	6,993.5	6,983.2	13.4	12.7	-142.16	-193.5	106.1	355.3	330.0	25.24	14.078		
7,100.0	7,092.0	7,083.5	7,065.7	13.5	12.7	100.92	-158.0	107.9	363.5	338.2	25.29	14.376		
7,200.0	7,189.5	7,169.2	7,138.3	13.6	12.7	86.49	-112.7	109.5	374.8	349.5	25.30	14.815		
7,300.0	7,281.6	7,250.0	7,199.8	13.7	12.8	79.18	-60.4	110.8	387.9	362.6	25.31	15.329		
7,400.0	7,365.7	7,331.2	7,253.6	13.7	12.9	73.77	0.3	112.0	401.8	376.4	25.35	15.849		
7,500.0	7,439.2	7,408.8	7,296.6	13.9	13.1	69.62	64.9	113.0	415.3	389.9	25.43	16.334		
7,600.0	7,499.8	7,484.8	7,329.8	14.1	13.4	66.41	133.2	113.7	427.7	402.1	25.62	16.692		
7,700.0	7,545.7	7,559.6	7,353.4	14.6	13.9	64.01	204.2	114.2	438.2	412.2	26.00	16.852		
7,800.0	7,575.6	7,633.6	7,367.4	15.2	14.4	62.35	276.8	114.5	446.3	419.6	26.65	16.745		
7,900.0	7,588.5	7,707.4	7,372.0	16.0	15.0	61.40	350.4	114.6	451.5	423.9	27.62	16.349		
8,000.0	7,589.0	7,807.4	7,372.0	16.9	16.0	61.40	450.4	114.6	453.3	424.0	29.32	15.460		
8,100.0	7,589.0	7,907.4	7,372.0	18.0	17.1	61.50	550.4	114.6	454.8	423.5	31.29	14.536		
8,200.0	7,589.0	8,007.4	7,372.0	19.2	18.3	61.60	650.3	114.6	456.4	422.9	33.44	13.649		
8,300.0	7,589.0	8,107.4	7,372.0	20.4	19.6	61.71	750.3	114.6	457.9	422.2	35.73	12.816		
8,400.0	7,589.0	8,207.4	7,372.0	21.7	21.0	61.81	850.3	114.6	459.4	421.3	38.14	12.046		
8,500.0	7,589.0	8,307.3	7,372.0	23.1	22.4	61.91	950.3	114.6	461.0	420.3	40.65	11.339		
8,600.0	7,589.0	8,407.3	7,372.0	24.5	23.8	62.02	1,050.3	114.6	462.5	419.3	43.25	10.694		
8,700.0	7,589.0	8,507.3	7,372.0	26.0	25.3	62.12	1,150.3	114.6	464.1	418.1	45.92	10.106		
8,800.0	7,589.0	8,607.3	7,372.0	27.5	26.9	62.22	1,250.3	114.6	465.6	417.0	48.65	9.571		
8,900.0	7,589.0	8,707.3	7,372.0	29.0	28.4	62.32	1,350.2	114.6	467.2	415.7	51.43	9.084		
9,000.0	7,589.0	8,807.3	7,372.0	30.6	30.0	62.42	1,450.2	114.6	468.7	414.4	54.25	8.639		
9,100.0	7,589.0	8,907.3	7,372.0	32.2	31.6	62.52	1,550.2	114.6	470.2	413.1	57.11	8.233		
9,200.0	7,589.0	9,007.2	7,372.0	33.7	33.2	62.61	1,650.2	114.6	471.8	411.8	60.01	7.862		
9,300.0	7,589.0	9,107.2	7,372.0	35.4	34.8	62.71	1,750.2	114.6	473.3	410.4	62.94	7.521		
9,400.0	7,589.0	9,207.2	7,372.0	37.0	36.5	62.81	1,850.2	114.6	474.9	409.0	65.89	7.207		
9,500.0	7,589.0	9,307.2	7,372.0	38.6	38.1	62.90	1,950.1	114.6	476.5	407.6	68.87	6.918		
9,600.0	7,589.0	9,407.2	7,372.0	40.2	39.8	63.00	2,050.1	114.6	478.0	406.1	71.87	6.651		
9,700.0	7,589.0	9,507.2	7,372.0	41.9	41.4	63.09	2,150.1	114.6	479.6	404.7	74.89	6.404		
9,800.0	7,589.0	9,607.1	7,372.0	43.6	43.1	63.19	2,250.1	114.6	481.1	403.2	77.92	6.174		
9,900.0	7,589.0	9,707.1	7,372.0	45.2	44.8	63.28	2,350.1	114.6	482.7	401.7	80.97	5.961		
10,000.0	7,589.0	9,807.1	7,372.0	46.9	46.5	63.37	2,450.1	114.6	484.2	400.2	84.04	5.762		
10,100.0	7,589.0	9,907.1	7,372.0	48.6	48.1	63.47	2,550.1	114.6	485.8	398.7	87.12	5.576		
10,200.0	7,589.0	10,007.1	7,372.0	50.3	49.8	63.56	2,650.0	114.6	487.4	397.1	90.21	5.402		
10,300.0	7,589.0	10,107.1	7,372.0	51.9	51.5	63.65	2,750.0	114.6	488.9	395.6	93.32	5.239		

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 3F-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 3F-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference: S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
10,400.0	7,589.0	10,207.1	7,372.0	53.6	53.2	63.74	2,850.0	114.6	490.5	394.1	96.43	5.086			
10,500.0	7,589.0	10,307.0	7,372.0	55.3	54.9	63.83	2,950.0	114.6	492.1	392.5	99.56	4.942			
10,600.0	7,589.0	10,407.0	7,372.0	57.0	56.6	63.92	3,050.0	114.6	493.6	390.9	102.70	4.807			
10,700.0	7,589.0	10,507.0	7,372.0	58.7	58.3	64.01	3,150.0	114.6	495.2	389.3	105.84	4.679			
10,800.0	7,589.0	10,607.0	7,372.0	60.4	60.1	64.09	3,250.0	114.6	496.8	387.8	109.00	4.558			
10,900.0	7,589.0	10,707.0	7,372.0	62.2	61.8	64.18	3,349.9	114.6	498.3	386.2	112.16	4.443			
11,000.0	7,589.0	10,807.0	7,372.0	63.9	63.5	64.27	3,449.9	114.6	499.9	384.6	115.33	4.335			
14,800.0	7,589.0	14,604.3	7,372.0	129.7	129.4	63.85	7,247.2	114.6	494.1	262.0	232.04	2.129			
14,900.0	7,589.0	14,703.8	7,372.0	131.4	131.2	63.37	7,346.8	114.6	485.7	251.5	234.22	2.074			
15,000.0	7,589.0	14,803.4	7,372.0	133.1	132.9	62.87	7,446.4	114.6	477.4	241.1	236.33	2.020			
15,100.0	7,589.0	14,903.0	7,372.0	134.9	134.6	62.35	7,545.9	114.6	469.2	230.8	238.36	1.968			
15,200.0	7,589.0	15,002.5	7,372.0	136.6	136.4	61.81	7,645.5	114.6	461.0	220.6	240.31	1.918			
15,273.9	7,589.0	15,076.2	7,372.0	137.9	137.7	61.40	7,719.1	114.6	454.9	213.2	241.68	1.882 SF			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	22.4	22.4						
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	22.4	22.4	22.1	0.26	85.461			
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	22.4	22.4	21.8	0.61	36.626			
300.0	300.0	300.0	300.0	0.5	0.5	90.02	0.0	22.4	22.4	21.4	0.96	23.308 CC, ES			
400.0	400.0	400.0	400.0	0.7	0.7	-142.91	0.0	22.4	23.1	21.8	1.31	17.617			
500.0	500.0	500.0	500.0	0.8	0.8	-146.49	0.0	22.4	25.2	23.5	1.66	15.189			
600.0	599.9	599.4	599.4	1.0	1.0	-150.20	-0.4	23.1	29.6	27.6	2.01	14.735 SF			
700.0	699.7	698.8	698.7	1.2	1.2	-151.65	-1.5	25.5	35.9	33.6	2.36	15.228			
800.0	799.6	797.9	797.8	1.4	1.4	-151.29	-3.5	29.3	43.7	41.0	2.71	16.094			
900.0	899.5	896.8	896.5	1.6	1.6	-149.94	-6.1	34.7	52.8	49.8	3.07	17.200			
1,000.0	999.4	995.8	995.2	1.8	1.8	-148.18	-9.5	41.5	63.3	59.9	3.43	18.453			
1,100.0	1,099.3	1,095.2	1,094.2	2.0	2.0	-146.79	-13.0	48.6	74.2	70.4	3.79	19.542			
1,200.0	1,199.2	1,194.6	1,193.3	2.2	2.2	-145.75	-16.6	55.7	85.0	80.8	4.16	20.447			
1,300.0	1,299.0	1,294.0	1,292.4	2.4	2.4	-144.94	-20.1	62.8	95.9	91.4	4.52	21.209			
1,400.0	1,398.9	1,393.4	1,391.5	2.5	2.6	-144.30	-23.6	69.9	106.8	101.9	4.88	21.860			
1,500.0	1,498.8	1,492.8	1,490.6	2.7	2.8	-143.78	-27.2	77.0	117.7	112.4	5.25	22.422			
1,600.0	1,598.7	1,592.2	1,589.6	2.9	3.0	-143.34	-30.7	84.1	128.6	123.0	5.61	22.912			
1,700.0	1,698.6	1,691.6	1,688.7	3.1	3.2	-142.98	-34.2	91.2	139.5	133.5	5.98	23.342			
1,800.0	1,798.5	1,791.0	1,787.8	3.3	3.4	-142.67	-37.8	98.3	150.4	144.1	6.34	23.724			
1,900.0	1,898.3	1,890.4	1,886.9	3.5	3.7	-142.39	-41.3	105.4	161.3	154.6	6.70	24.064			
2,000.0	1,998.2	1,989.8	1,986.0	3.7	3.9	-142.16	-44.8	112.5	172.2	165.2	7.07	24.370			
2,100.0	2,098.1	2,089.2	2,085.1	3.9	4.1	-141.95	-48.4	119.6	183.2	175.7	7.43	24.645			
2,200.0	2,198.0	2,188.6	2,184.1	4.1	4.3	-141.77	-51.9	126.7	194.1	186.3	7.80	24.895			
2,300.0	2,297.9	2,288.0	2,283.2	4.3	4.5	-141.60	-55.4	133.9	205.0	196.9	8.16	25.123			
2,400.0	2,397.8	2,387.4	2,382.3	4.5	4.8	-141.45	-58.9	141.0	216.0	207.4	8.53	25.331			
2,500.0	2,497.6	2,486.8	2,481.4	4.7	5.0	-141.32	-62.5	148.1	226.9	218.0	8.89	25.523			
2,600.0	2,597.5	2,586.2	2,580.5	4.9	5.2	-141.20	-66.0	155.2	237.8	228.6	9.25	25.699			
2,700.0	2,697.4	2,685.6	2,679.5	5.1	5.4	-141.09	-69.5	162.3	248.8	239.1	9.62	25.862			
2,800.0	2,797.3	2,785.0	2,778.6	5.3	5.6	-140.99	-73.1	169.4	259.7	249.7	9.98	26.013			
2,900.0	2,897.2	2,884.4	2,877.7	5.4	5.9	-140.89	-76.6	176.5	270.6	260.3	10.35	26.154			
3,000.0	2,997.0	2,983.8	2,976.8	5.6	6.1	-140.81	-80.1	183.6	281.6	270.9	10.71	26.284			
3,100.0	3,096.9	3,083.1	3,075.9	5.8	6.3	-140.73	-83.7	190.7	292.5	281.4	11.08	26.407			
3,200.0	3,196.8	3,182.5	3,175.0	6.0	6.5	-140.65	-87.2	197.8	303.4	292.0	11.44	26.521			
3,300.0	3,296.7	3,281.9	3,274.0	6.2	6.7	-140.58	-90.7	204.9	314.4	302.6	11.81	26.629			
3,400.0	3,396.6	3,381.3	3,373.1	6.4	7.0	-140.52	-94.3	212.0	325.3	313.2	12.17	26.730			
3,500.0	3,496.5	3,480.7	3,472.2	6.6	7.2	-140.46	-97.8	219.1	336.3	323.7	12.54	26.825			
3,600.0	3,596.3	3,580.1	3,571.3	6.8	7.4	-140.40	-101.3	226.2	347.2	334.3	12.90	26.915			
3,700.0	3,696.2	3,679.5	3,670.4	7.0	7.6	-140.35	-104.9	233.4	358.1	344.9	13.26	27.000			
3,800.0	3,796.1	3,778.9	3,769.4	7.2	7.9	-140.30	-108.4	240.5	369.1	355.5	13.63	27.080			
3,900.0	3,896.0	3,878.3	3,868.5	7.4	8.1	-140.25	-111.9	247.6	380.0	366.0	13.99	27.156			
4,000.0	3,995.9	3,977.7	3,967.6	7.6	8.3	-140.21	-115.5	254.7	391.0	376.6	14.36	27.228			
4,100.0	4,095.8	4,077.1	4,066.7	7.8	8.5	-140.17	-119.0	261.8	401.9	387.2	14.72	27.297			
4,200.0	4,195.6	4,176.5	4,165.8	8.0	8.7	-140.13	-122.5	268.9	412.8	397.8	15.09	27.362			
4,300.0	4,295.5	4,275.9	4,264.9	8.2	9.0	-140.09	-126.1	276.0	423.8	408.3	15.45	27.425			
4,400.0	4,395.4	4,375.3	4,363.9	8.4	9.2	-140.06	-129.6	283.1	434.7	418.9	15.82	27.484			
4,500.0	4,495.3	4,474.7	4,463.0	8.5	9.4	-140.02	-133.1	290.2	445.7	429.5	16.18	27.541			
4,600.0	4,595.2	4,574.1	4,562.1	8.7	9.6	-139.99	-136.7	297.3	456.6	440.1	16.55	27.595			
4,700.0	4,695.1	4,673.5	4,661.2	8.9	9.8	-139.96	-140.2	304.4	467.6	450.6	16.91	27.647			
4,800.0	4,794.9	4,772.9	4,760.3	9.1	10.1	-139.93	-143.7	311.5	478.5	461.2	17.28	27.697			
4,900.0	4,894.8	4,872.3	4,859.3	9.3	10.3	-139.90	-147.3	318.6	489.4	471.8	17.64	27.744			

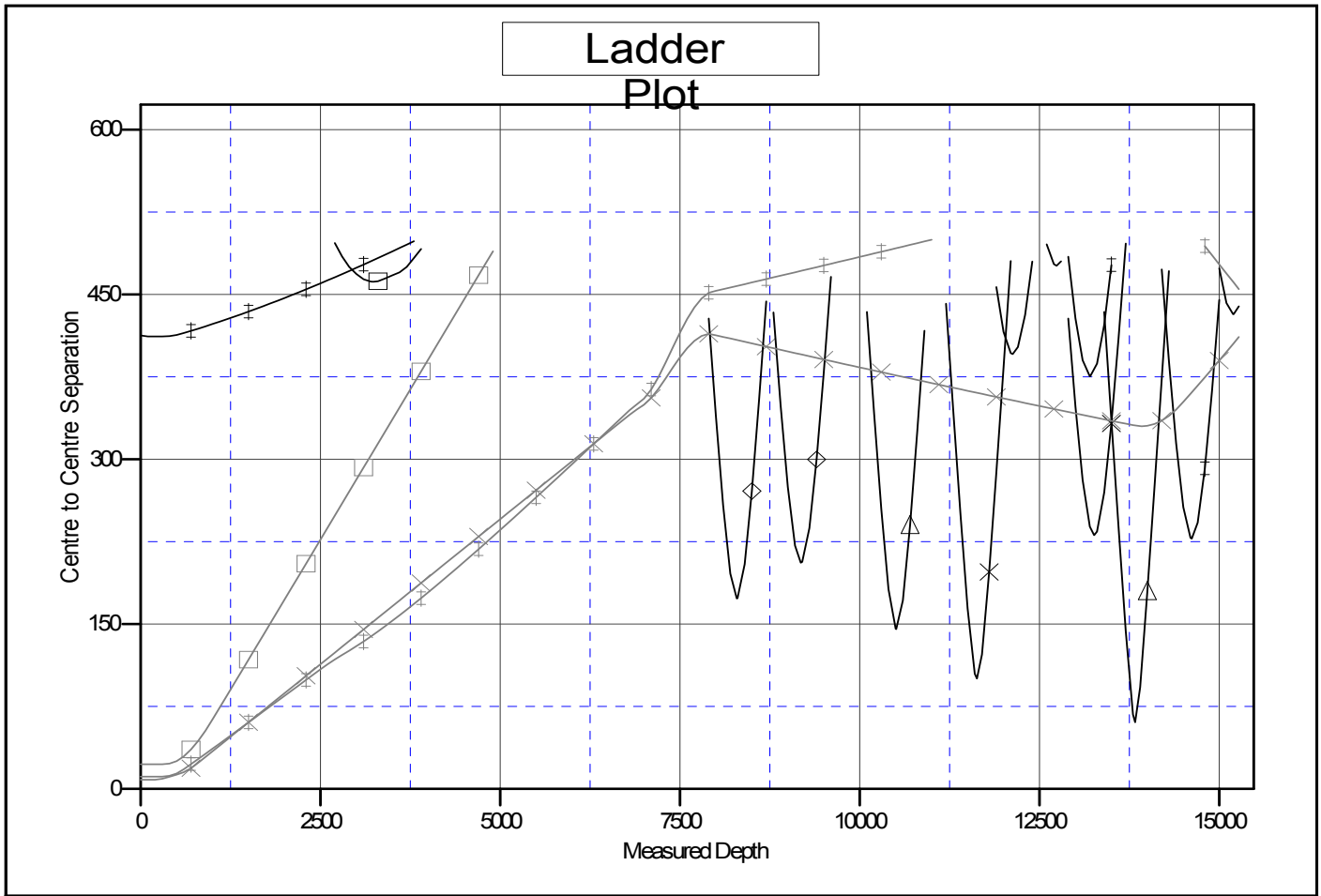
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Jillson-East Rinn 3F-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 3F-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 3F-22H-N268  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.33°



### LEGEND

ANA WELL, NOSURVEYS V0	▲ EASTRINN 3-6-15 (EXISTING), ENCANA WELL, SURVEYS V0	◆ JILLSON GAS UNIT 1 (EXISTING)
ESSELS WELL, NOSURVEYS - AL V0	✖ JILLSON 1-22 (EXISTING), ENCANA WELL, NOSURVEYS V0	✖ Jillson-East Rinn 3E-22H-N268, H
ANA WELL, SURVEYS V0	✖ JILLSON 21-22 (EXISTING), ENCANA WELL, NOSURVEYS V0	✖ Jillson-East Rinn 3G-22H-N268, H
ANA WELL, SURVEYS V0	▲ JILLSON 22-22 (EXISTING), ENCANA WELL, NOSURVEYS V0	▣ Jillson-East Rinn 3H-22H-N268, H
ANA WELL, SURVEYS V0	▣ JILLSON 4-8-22 (EXISTING), ENCANA WELL, SURVEYS V0	
ANA WELL, SURVEYS V0	✖ JILLSON 6 (EXISTING), FOUNDATION WELL, NOSURVEYS V0	

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