

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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

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

Well	Jillson-East Rinn 3B-22H-M268					
Well Position	+N/-S	0.0 ft	Northing:	1,286,200.48 ft	Latitude:	40.117908
	+E/-W	0.0 ft	Easting:	3,140,861.21 ft	Longitude:	-104.996349
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,953.0 ft

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

Design	Plan #3				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	0.00	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
659.4	3.59	212.29	659.1	-9.5	-6.0	1.00	1.00	0.00	212.29	
6,996.9	3.59	212.29	6,984.2	-345.3	-218.2	0.00	0.00	0.00	0.00	
7,927.1	90.00	359.40	7,587.0	226.6	-244.8	10.00	9.29	15.82	147.06	
15,307.1	90.00	359.40	7,587.0	7,606.2	-322.1	0.00	0.00	0.00	0.00	Jillson-East Rinn 3B-2

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Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
282.0	0.00	0.00	282.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
400.0	1.00	212.29	400.0	-0.7	-0.5	-0.7	1.00	1.00	
500.0	2.00	212.29	500.0	-3.0	-1.9	-3.0	1.00	1.00	
600.0	3.00	212.29	599.9	-6.6	-4.2	-6.6	1.00	1.00	
659.4	3.59	212.29	659.1	-9.5	-6.0	-9.5	1.00	1.00	EOB; Inc=3.59°
700.0	3.59	212.29	699.7	-11.7	-7.4	-11.7	0.00	0.00	
800.0	3.59	212.29	799.5	-17.0	-10.7	-17.0	0.00	0.00	
900.0	3.59	212.29	899.3	-22.3	-14.1	-22.3	0.00	0.00	
1,000.0	3.59	212.29	999.1	-27.6	-17.4	-27.6	0.00	0.00	
1,100.0	3.59	212.29	1,098.9	-32.9	-20.8	-32.9	0.00	0.00	
1,200.0	3.59	212.29	1,198.7	-38.2	-24.1	-38.2	0.00	0.00	
1,300.0	3.59	212.29	1,298.5	-43.5	-27.5	-43.5	0.00	0.00	
1,400.0	3.59	212.29	1,398.3	-48.8	-30.8	-48.8	0.00	0.00	
1,500.0	3.59	212.29	1,498.1	-54.1	-34.2	-54.1	0.00	0.00	
1,600.0	3.59	212.29	1,597.9	-59.4	-37.5	-59.4	0.00	0.00	
1,700.0	3.59	212.29	1,697.7	-64.7	-40.9	-64.7	0.00	0.00	
1,800.0	3.59	212.29	1,797.5	-70.0	-44.2	-70.0	0.00	0.00	
1,900.0	3.59	212.29	1,897.3	-75.3	-47.6	-75.3	0.00	0.00	
2,000.0	3.59	212.29	1,997.1	-80.6	-50.9	-80.6	0.00	0.00	
2,100.0	3.59	212.29	2,096.9	-85.9	-54.3	-85.9	0.00	0.00	
2,200.0	3.59	212.29	2,196.7	-91.2	-57.6	-91.2	0.00	0.00	
2,300.0	3.59	212.29	2,296.5	-96.5	-61.0	-96.5	0.00	0.00	
2,400.0	3.59	212.29	2,396.3	-101.8	-64.3	-101.8	0.00	0.00	
2,500.0	3.59	212.29	2,496.1	-107.1	-67.7	-107.1	0.00	0.00	
2,600.0	3.59	212.29	2,596.0	-112.4	-71.0	-112.4	0.00	0.00	
2,700.0	3.59	212.29	2,695.8	-117.7	-74.4	-117.7	0.00	0.00	
2,800.0	3.59	212.29	2,795.6	-122.9	-77.7	-122.9	0.00	0.00	
2,900.0	3.59	212.29	2,895.4	-128.2	-81.1	-128.2	0.00	0.00	
3,000.0	3.59	212.29	2,995.2	-133.5	-84.4	-133.5	0.00	0.00	
3,100.0	3.59	212.29	3,095.0	-138.8	-87.8	-138.8	0.00	0.00	
3,200.0	3.59	212.29	3,194.8	-144.1	-91.1	-144.1	0.00	0.00	
3,300.0	3.59	212.29	3,294.6	-149.4	-94.4	-149.4	0.00	0.00	
3,400.0	3.59	212.29	3,394.4	-154.7	-97.8	-154.7	0.00	0.00	
3,500.0	3.59	212.29	3,494.2	-160.0	-101.1	-160.0	0.00	0.00	
3,600.0	3.59	212.29	3,594.0	-165.3	-104.5	-165.3	0.00	0.00	
3,700.0	3.59	212.29	3,693.8	-170.6	-107.8	-170.6	0.00	0.00	
3,800.0	3.59	212.29	3,793.6	-175.9	-111.2	-175.9	0.00	0.00	
3,900.0	3.59	212.29	3,893.4	-181.2	-114.5	-181.2	0.00	0.00	
4,000.0	3.59	212.29	3,993.2	-186.5	-117.9	-186.5	0.00	0.00	
4,100.0	3.59	212.29	4,093.0	-191.8	-121.2	-191.8	0.00	0.00	
4,200.0	3.59	212.29	4,192.8	-197.1	-124.6	-197.1	0.00	0.00	
4,300.0	3.59	212.29	4,292.6	-202.4	-127.9	-202.4	0.00	0.00	
4,358.5	3.59	212.29	4,351.0	-205.5	-129.9	-205.5	0.00	0.00	Sussex
4,400.0	3.59	212.29	4,392.4	-207.7	-131.3	-207.7	0.00	0.00	
4,500.0	3.59	212.29	4,492.2	-213.0	-134.6	-213.0	0.00	0.00	
4,600.0	3.59	212.29	4,592.0	-218.3	-138.0	-218.3	0.00	0.00	
4,700.0	3.59	212.29	4,691.8	-223.6	-141.3	-223.6	0.00	0.00	
4,800.0	3.59	212.29	4,791.6	-228.9	-144.7	-228.9	0.00	0.00	

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Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,900.0	3.59	212.29	4,891.4	-234.2	-148.0	-234.2	0.00	0.00	
4,914.6	3.59	212.29	4,906.0	-235.0	-148.5	-235.0	0.00	0.00	Shannon
5,000.0	3.59	212.29	4,991.2	-239.5	-151.4	-239.5	0.00	0.00	
5,100.0	3.59	212.29	5,091.0	-244.8	-154.7	-244.8	0.00	0.00	
5,200.0	3.59	212.29	5,190.8	-250.1	-158.1	-250.1	0.00	0.00	
5,300.0	3.59	212.29	5,290.6	-255.4	-161.4	-255.4	0.00	0.00	
5,400.0	3.59	212.29	5,390.5	-260.7	-164.8	-260.7	0.00	0.00	
5,500.0	3.59	212.29	5,490.3	-266.0	-168.1	-266.0	0.00	0.00	
5,600.0	3.59	212.29	5,590.1	-271.3	-171.5	-271.3	0.00	0.00	
5,700.0	3.59	212.29	5,689.9	-276.6	-174.8	-276.6	0.00	0.00	
5,800.0	3.59	212.29	5,789.7	-281.9	-178.2	-281.9	0.00	0.00	
5,900.0	3.59	212.29	5,889.5	-287.2	-181.5	-287.2	0.00	0.00	
6,000.0	3.59	212.29	5,989.3	-292.5	-184.9	-292.5	0.00	0.00	
6,100.0	3.59	212.29	6,089.1	-297.8	-188.2	-297.8	0.00	0.00	
6,200.0	3.59	212.29	6,188.9	-303.1	-191.6	-303.1	0.00	0.00	
6,300.0	3.59	212.29	6,288.7	-308.4	-194.9	-308.4	0.00	0.00	
6,400.0	3.59	212.29	6,388.5	-313.7	-198.3	-313.7	0.00	0.00	
6,473.7	3.59	212.29	6,462.0	-317.6	-200.7	-317.6	0.00	0.00	Teepee Buttes (*if present)
6,500.0	3.59	212.29	6,488.3	-319.0	-201.6	-319.0	0.00	0.00	
6,600.0	3.59	212.29	6,588.1	-324.3	-205.0	-324.3	0.00	0.00	
6,700.0	3.59	212.29	6,687.9	-329.6	-208.3	-329.6	0.00	0.00	
6,800.0	3.59	212.29	6,787.7	-334.9	-211.7	-334.9	0.00	0.00	
6,900.0	3.59	212.29	6,887.5	-340.2	-215.0	-340.2	0.00	0.00	
6,996.9	3.59	212.29	6,984.2	-345.3	-218.2	-345.3	0.00	0.00	Start build/turn @ 6996' MD
7,000.0	3.34	215.16	6,987.3	-345.5	-218.4	-345.5	9.95	-8.22	
7,100.0	7.55	344.48	7,087.0	-341.5	-221.8	-341.5	10.00	4.20	
7,200.0	17.40	353.15	7,184.6	-320.3	-225.3	-320.3	10.00	9.85	
7,234.3	20.81	354.25	7,217.0	-309.1	-226.6	-309.1	10.00	9.95	Sharon Springs
7,300.0	27.35	355.62	7,276.9	-282.5	-228.9	-282.5	10.00	9.96	
7,324.0	29.75	355.98	7,298.0	-271.0	-229.7	-271.0	10.01	9.98	Niobrara
7,400.0	37.33	356.84	7,361.3	-229.1	-232.3	-229.1	10.00	9.98	
7,408.5	38.18	356.91	7,368.0	-224.0	-232.6	-224.0	10.02	10.00	B Chalk
7,433.1	40.64	357.12	7,387.0	-208.4	-233.4	-208.4	10.00	9.99	B Marl
7,500.0	47.32	357.60	7,435.1	-162.0	-235.6	-162.0	10.00	9.99	
7,516.3	48.95	357.70	7,446.0	-149.9	-236.0	-149.9	10.01	10.00	C Chalk
7,559.3	53.24	357.94	7,473.0	-116.4	-237.3	-116.4	10.00	9.99	C Marl
7,600.0	57.31	358.15	7,496.2	-83.0	-238.5	-83.0	10.00	9.99	
7,612.8	58.59	358.21	7,503.0	-72.1	-238.8	-72.1	10.01	10.00	D Chalk
7,700.0	67.30	358.58	7,542.6	5.4	-241.0	5.4	10.00	9.99	
7,753.8	72.68	358.79	7,561.0	55.9	-242.1	55.9	10.00	10.00	Fort Hayes
7,800.0	77.30	358.96	7,573.0	100.5	-243.0	100.5	10.00	9.99	
7,851.3	82.43	359.14	7,582.0	151.0	-243.8	151.0	10.00	10.00	Codell
7,900.0	87.29	359.31	7,586.4	199.5	-244.5	199.5	10.00	9.99	
7,927.1	90.00	359.40	7,587.0	226.6	-244.8	226.6	10.01	10.00	LP @ 7387' TVD; 90°
8,000.0	90.00	359.40	7,587.0	299.5	-245.6	299.5	0.00	0.00	
8,100.0	90.00	359.40	7,587.0	399.5	-246.6	399.5	0.00	0.00	
8,200.0	90.00	359.40	7,587.0	499.5	-247.7	499.5	0.00	0.00	
8,300.0	90.00	359.40	7,587.0	599.5	-248.7	599.5	0.00	0.00	
8,400.0	90.00	359.40	7,587.0	699.5	-249.8	699.5	0.00	0.00	
8,500.0	90.00	359.40	7,587.0	799.5	-250.8	799.5	0.00	0.00	
8,600.0	90.00	359.40	7,587.0	899.5	-251.8	899.5	0.00	0.00	
8,700.0	90.00	359.40	7,587.0	999.5	-252.9	999.5	0.00	0.00	

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Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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	359.40	7,587.0	1,099.5	-253.9	1,099.5	0.00	0.00	
8,900.0	90.00	359.40	7,587.0	1,199.4	-255.0	1,199.4	0.00	0.00	
9,000.0	90.00	359.40	7,587.0	1,299.4	-256.0	1,299.4	0.00	0.00	
9,100.0	90.00	359.40	7,587.0	1,399.4	-257.1	1,399.4	0.00	0.00	
9,200.0	90.00	359.40	7,587.0	1,499.4	-258.1	1,499.4	0.00	0.00	
9,300.0	90.00	359.40	7,587.0	1,599.4	-259.2	1,599.4	0.00	0.00	
9,400.0	90.00	359.40	7,587.0	1,699.4	-260.2	1,699.4	0.00	0.00	
9,500.0	90.00	359.40	7,587.0	1,799.4	-261.3	1,799.4	0.00	0.00	
9,600.0	90.00	359.40	7,587.0	1,899.4	-262.3	1,899.4	0.00	0.00	
9,700.0	90.00	359.40	7,587.0	1,999.4	-263.4	1,999.4	0.00	0.00	
9,800.0	90.00	359.40	7,587.0	2,099.4	-264.4	2,099.4	0.00	0.00	
9,900.0	90.00	359.40	7,587.0	2,199.4	-265.5	2,199.4	0.00	0.00	
10,000.0	90.00	359.40	7,587.0	2,299.4	-266.5	2,299.4	0.00	0.00	
10,100.0	90.00	359.40	7,587.0	2,399.4	-267.6	2,399.4	0.00	0.00	
10,200.0	90.00	359.40	7,587.0	2,499.4	-268.6	2,499.4	0.00	0.00	
10,300.0	90.00	359.40	7,587.0	2,599.4	-269.6	2,599.4	0.00	0.00	
10,400.0	90.00	359.40	7,587.0	2,699.4	-270.7	2,699.4	0.00	0.00	
10,500.0	90.00	359.40	7,587.0	2,799.4	-271.7	2,799.4	0.00	0.00	
10,600.0	90.00	359.40	7,587.0	2,899.4	-272.8	2,899.4	0.00	0.00	
10,700.0	90.00	359.40	7,587.0	2,999.4	-273.8	2,999.4	0.00	0.00	
10,800.0	90.00	359.40	7,587.0	3,099.3	-274.9	3,099.3	0.00	0.00	
10,900.0	90.00	359.40	7,587.0	3,199.3	-275.9	3,199.3	0.00	0.00	
11,000.0	90.00	359.40	7,587.0	3,299.3	-277.0	3,299.3	0.00	0.00	
11,100.0	90.00	359.40	7,587.0	3,399.3	-278.0	3,399.3	0.00	0.00	
11,200.0	90.00	359.40	7,587.0	3,499.3	-279.1	3,499.3	0.00	0.00	
11,300.0	90.00	359.40	7,587.0	3,599.3	-280.1	3,599.3	0.00	0.00	
11,400.0	90.00	359.40	7,587.0	3,699.3	-281.2	3,699.3	0.00	0.00	
11,500.0	90.00	359.40	7,587.0	3,799.3	-282.2	3,799.3	0.00	0.00	
11,600.0	90.00	359.40	7,587.0	3,899.3	-283.3	3,899.3	0.00	0.00	
11,700.0	90.00	359.40	7,587.0	3,999.3	-284.3	3,999.3	0.00	0.00	
11,800.0	90.00	359.40	7,587.0	4,099.3	-285.4	4,099.3	0.00	0.00	
11,900.0	90.00	359.40	7,587.0	4,199.3	-286.4	4,199.3	0.00	0.00	
12,000.0	90.00	359.40	7,587.0	4,299.3	-287.4	4,299.3	0.00	0.00	
12,100.0	90.00	359.40	7,587.0	4,399.3	-288.5	4,399.3	0.00	0.00	
12,200.0	90.00	359.40	7,587.0	4,499.3	-289.5	4,499.3	0.00	0.00	
12,300.0	90.00	359.40	7,587.0	4,599.3	-290.6	4,599.3	0.00	0.00	
12,400.0	90.00	359.40	7,587.0	4,699.3	-291.6	4,699.3	0.00	0.00	
12,500.0	90.00	359.40	7,587.0	4,799.3	-292.7	4,799.3	0.00	0.00	
12,600.0	90.00	359.40	7,587.0	4,899.3	-293.7	4,899.3	0.00	0.00	
12,700.0	90.00	359.40	7,587.0	4,999.2	-294.8	4,999.2	0.00	0.00	
12,800.0	90.00	359.40	7,587.0	5,099.2	-295.8	5,099.2	0.00	0.00	
12,900.0	90.00	359.40	7,587.0	5,199.2	-296.9	5,199.2	0.00	0.00	
13,000.0	90.00	359.40	7,587.0	5,299.2	-297.9	5,299.2	0.00	0.00	
13,100.0	90.00	359.40	7,587.0	5,399.2	-299.0	5,399.2	0.00	0.00	
13,200.0	90.00	359.40	7,587.0	5,499.2	-300.0	5,499.2	0.00	0.00	
13,300.0	90.00	359.40	7,587.0	5,599.2	-301.1	5,599.2	0.00	0.00	
13,400.0	90.00	359.40	7,587.0	5,699.2	-302.1	5,699.2	0.00	0.00	
13,500.0	90.00	359.40	7,587.0	5,799.2	-303.2	5,799.2	0.00	0.00	
13,600.0	90.00	359.40	7,587.0	5,899.2	-304.2	5,899.2	0.00	0.00	
13,700.0	90.00	359.40	7,587.0	5,999.2	-305.3	5,999.2	0.00	0.00	
13,800.0	90.00	359.40	7,587.0	6,099.2	-306.3	6,099.2	0.00	0.00	
13,900.0	90.00	359.40	7,587.0	6,199.2	-307.3	6,199.2	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,000.0	90.00	359.40	7,587.0	6,299.2	-308.4	6,299.2	0.00	0.00	
14,100.0	90.00	359.40	7,587.0	6,399.2	-309.4	6,399.2	0.00	0.00	
14,200.0	90.00	359.40	7,587.0	6,499.2	-310.5	6,499.2	0.00	0.00	
14,300.0	90.00	359.40	7,587.0	6,599.2	-311.5	6,599.2	0.00	0.00	
14,400.0	90.00	359.40	7,587.0	6,699.2	-312.6	6,699.2	0.00	0.00	
14,500.0	90.00	359.40	7,587.0	6,799.2	-313.6	6,799.2	0.00	0.00	
14,600.0	90.00	359.40	7,587.0	6,899.1	-314.7	6,899.1	0.00	0.00	
14,700.0	90.00	359.40	7,587.0	6,999.1	-315.7	6,999.1	0.00	0.00	
14,800.0	90.00	359.40	7,587.0	7,099.1	-316.8	7,099.1	0.00	0.00	
14,900.0	90.00	359.40	7,587.0	7,199.1	-317.8	7,199.1	0.00	0.00	
15,000.0	90.00	359.40	7,587.0	7,299.1	-318.9	7,299.1	0.00	0.00	
15,100.0	90.00	359.40	7,587.0	7,399.1	-319.9	7,399.1	0.00	0.00	
15,200.0	90.00	359.40	7,587.0	7,499.1	-321.0	7,499.1	0.00	0.00	
15,300.0	90.00	359.40	7,587.0	7,599.1	-322.0	7,599.1	0.00	0.00	
15,307.1	90.00	359.40	7,587.0	7,606.2	-322.1	7,606.2	0.00	0.00	TD at 15307.1

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Jillson-East Rinn 3B-22H - plan misses target center by 23.0ft at 15307.1ft MD (7587.0 TVD, 7606.2 N, -322.1 E) - Point	0.00	0.00	7,564.0	7,606.2	-322.1	1,293,804.71	3,140,495.93	40.138788	-104.997501
Jillson-East Rinn 3B-22H - plan misses target center by 111.9ft at 11840.8ft MD (7587.0 TVD, 4140.1 N, -285.8 E) - Point	0.00	0.00	7,564.0	4,141.2	-176.2	1,290,340.65	3,140,661.45	40.129276	-104.996979
Jillson-East Rinn 3B-22H - plan hits target center - Point	0.00	0.00	7,587.0	7,606.2	-322.1	1,293,804.71	3,140,495.93	40.138788	-104.997501

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
282.0	282.0	Fox Hills - BASE				
4,358.5	4,351.0	Sussex				
4,914.6	4,906.0	Shannon				
6,473.7	6,462.0	Teepee Buttes (*if present)				
7,234.3	7,217.0	Sharon Springs				
7,324.0	7,298.0	Niobrara				
7,408.5	7,368.0	B Chalk				
7,433.1	7,387.0	B Marl				
7,516.3	7,446.0	C Chalk				
7,559.3	7,473.0	C Marl				
7,612.8	7,503.0	D Chalk				
7,753.8	7,561.0	Fort Hayes				
7,851.3	7,582.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.0	300.0	0.0	0.0	KOP @ 300'	
659.4	659.1	-9.5	-6.0	EOB; Inc=3.59°	
6,996.9	6,984.2	-345.3	-218.2	Start build/turn @ 6996' MD	
7,927.1	7,587.0	226.6	-244.8	LP @ 7387' TVD; 90°	
15,307.1	7,587.0	7,606.2	-322.1	TD at 15307.1	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S22-T2N-R68W (Jillson-East Rinn)

Jillson-East Rinn 3B-22H-M268

Hz

Plan #3

Anticollision Report

06 May, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Reference	Plan #3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	5/6/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	15,307.1	Plan #3 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S22-T2N-R68W (Jillson-East Rinn)						
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL	11,206.7	7,613.6	337.1	254.8	4.095	CC, ES, SF
BLISS 41-21 (EXISTING) - KPK WELL - SURVEYS						Out of range
EARL ANDERSON 1 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON 2 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON B 1 (EXISTING) - KPK WELL - NO S						Out of range
EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV	14,613.1	7,892.9	272.4	133.2	1.958	CC, ES, SF
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N						Out of range
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR	12,755.5	8,099.1	870.7	737.4	6.532	CC, ES
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR	12,900.0	8,101.5	882.6	746.8	6.499	SF
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N	13,636.3	7,498.0	528.9	409.0	4.414	CC, ES
EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N	13,700.0	7,498.0	532.7	411.7	4.405	SF
HALEY 1-22 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
Haley 31-22 - DD - Plan #1						Out of range
Haley 4-2-22 - DD - Plan #1						Out of range
Haley 8-4-22 - DD - Plan #1						Out of range
HOPPER 23-15 (EXISTING) - KERR-MCGEE WELL - SU						Out of range
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,611.8	7,874.6	336.5	299.5	9.089	CC, ES
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,700.0	7,875.4	347.9	309.6	9.089	SF
JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO	11,886.6	7,506.7	53.1	-36.4	0.594	Level 1, CC, ES, SF
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV						Out of range
JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO	10,429.9	7,526.8	180.8	116.3	2.801	CC, ES, SF
JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO	8,000.8	7,571.5	223.0	194.7	7.882	CC, ES, SF
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE	4,648.8	4,795.6	716.9	690.5	27.109	CC, ES
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE	7,400.0	7,494.2	777.2	744.4	23.698	SF
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	300.0	280.0	268.8	267.8	271.568	CC, ES
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	5,100.0	5,039.0	526.5	508.7	29.545	SF
JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N						Out of range
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	162.1	174.1	10.1	9.5	19.342	CC
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	15,307.1	15,185.5	226.8	9.0	1.041	Level 2, ES, SF
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2	300.0	300.0	10.1	9.1	10.050	CC, ES
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2	15,307.1	15,094.7	294.9	102.7	1.534	SF
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	300.0	309.0	20.1	19.1	20.205	CC, ES
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1	15,307.1	15,278.2	405.8	134.7	1.497	Level 3, SF
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1	263.4	272.4	29.9	29.1	34.449	CC
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1	300.0	309.0	29.9	28.9	30.034	ES
Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1	15,307.1	14,711.4	849.3	652.8	4.322	SF
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	263.4	272.4	40.0	39.1	46.038	CC
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	300.0	309.0	40.0	39.0	40.139	ES
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	15,100.0	14,516.0	999.8	785.7	4.670	SF
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2						Out of range
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3						Out of range
Jillson-East Rinn 3I-22H-N268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3J-22H-N268 - Hz - Plan #1						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S22-T2N-R68W (Jillson-East Rinn)						
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N	9,315.0	7,541.0	353.9	307.8	7.680	CC, ES
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N	9,400.0	7,541.0	363.9	316.5	7.671	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL - NO SUR													Offset Site Error:	0.0 ft
Survey Program: 1500-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,587.0	7,613.6	7,511.0	49.4	19.7	-90.00	3,502.5	-616.3	967.4	900.5	66.88	14.466		
10,400.0	7,587.0	7,613.6	7,511.0	51.1	19.7	-90.00	3,502.5	-616.3	874.4	805.8	68.57	12.752		
10,500.0	7,587.0	7,613.6	7,511.0	52.8	19.7	-90.00	3,502.5	-616.3	783.0	712.8	70.26	11.145		
10,600.0	7,587.0	7,613.6	7,511.0	54.5	19.7	-90.00	3,502.5	-616.3	694.1	622.2	71.96	9.646		
10,700.0	7,587.0	7,613.6	7,511.0	56.2	19.7	-90.00	3,502.5	-616.3	608.7	535.0	73.66	8.263		
10,800.0	7,587.0	7,613.6	7,511.0	57.9	19.7	-90.00	3,502.5	-616.3	528.3	452.9	75.37	7.010		
10,900.0	7,587.0	7,613.6	7,511.0	59.6	19.7	-90.00	3,502.5	-616.3	455.8	378.7	77.08	5.914		
11,000.0	7,587.0	7,613.6	7,511.0	61.3	19.7	-90.00	3,502.5	-616.3	395.5	316.7	78.79	5.020		
11,100.0	7,587.0	7,613.6	7,511.0	63.0	19.7	-90.00	3,502.5	-616.3	353.6	273.1	80.50	4.393		
11,200.0	7,587.0	7,613.6	7,511.0	64.7	19.7	-90.00	3,502.5	-616.3	337.2	255.0	82.22	4.101		
11,206.7	7,587.0	7,613.6	7,511.0	64.8	19.7	-90.00	3,502.5	-616.3	337.1	254.8	82.33	4.095 CC, ES, SF		
11,300.0	7,587.0	7,613.6	7,511.0	66.4	19.7	-90.00	3,502.5	-616.3	349.8	265.9	83.93	4.167		
11,400.0	7,587.0	7,613.6	7,511.0	68.1	19.7	-90.00	3,502.5	-616.3	388.6	302.9	85.65	4.537		
11,500.0	7,587.0	7,613.6	7,511.0	69.8	19.7	-90.00	3,502.5	-616.3	446.8	359.4	87.37	5.114		
11,600.0	7,587.0	7,613.6	7,511.0	71.6	19.7	-90.00	3,502.5	-616.3	518.0	428.9	89.10	5.814		
11,700.0	7,587.0	7,613.6	7,511.0	73.3	19.7	-90.00	3,502.5	-616.3	597.5	506.6	90.82	6.578		
11,800.0	7,587.0	7,613.6	7,511.0	75.0	19.7	-90.00	3,502.5	-616.3	682.3	589.8	92.55	7.373		
11,900.0	7,587.0	7,613.6	7,511.0	76.7	19.7	-90.00	3,502.5	-616.3	770.9	676.6	94.27	8.177		
12,000.0	7,587.0	7,613.6	7,511.0	78.5	19.7	-90.00	3,502.5	-616.3	861.9	765.9	96.00	8.978		
12,100.0	7,587.0	7,613.6	7,511.0	80.2	19.7	-90.00	3,502.5	-616.3	954.7	857.0	97.73	9.769		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 106-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
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
13,700.0	7,587.0	7,897.9	7,516.1	107.9	37.1	91.41	6,915.1	-42.5	952.9	829.6	123.23	7.733	
13,800.0	7,587.0	7,897.4	7,515.5	109.7	37.1	91.29	6,915.1	-42.5	857.5	732.5	124.97	6.862	
13,900.0	7,587.0	7,896.8	7,515.0	111.4	37.1	91.18	6,915.1	-42.5	763.4	636.6	126.71	6.024	
14,000.0	7,587.0	7,896.3	7,514.5	113.2	37.1	91.06	6,915.1	-42.5	670.9	542.4	128.45	5.223	
14,100.0	7,587.0	7,895.7	7,513.9	114.9	37.1	90.95	6,915.1	-42.5	580.9	450.7	130.19	4.462	
14,200.0	7,587.0	7,895.2	7,513.4	116.6	37.1	90.83	6,915.1	-42.5	494.8	362.9	131.93	3.751	
14,300.0	7,587.0	7,894.6	7,512.8	118.4	37.1	90.72	6,915.1	-42.5	415.0	281.3	133.67	3.105	
14,400.0	7,587.0	7,894.1	7,512.3	120.1	37.1	90.60	6,915.1	-42.5	345.8	210.4	135.41	2.554	
14,500.0	7,587.0	7,893.5	7,511.7	121.9	37.1	90.48	6,915.1	-42.5	294.9	157.8	137.16	2.150	
14,600.0	7,587.0	7,893.0	7,511.2	123.6	37.1	90.37	6,915.1	-42.5	272.7	133.8	138.90	1.963	
14,613.1	7,587.0	7,892.9	7,511.1	123.8	37.1	90.35	6,915.1	-42.5	272.4	133.2	139.12	1.958 CC, ES, SF	
14,700.0	7,587.0	7,892.4	7,510.6	125.3	37.1	90.25	6,915.1	-42.5	285.9	145.3	140.64	2.033	
14,800.0	7,587.0	7,891.9	7,510.0	127.1	37.1	90.14	6,915.1	-42.5	330.3	187.9	142.38	2.320	
14,900.0	7,587.0	7,891.3	7,509.5	128.8	37.1	90.02	6,915.1	-42.5	395.6	251.5	144.12	2.745	
15,000.0	7,587.0	7,890.8	7,508.9	130.6	37.1	89.90	6,915.1	-42.5	473.1	327.3	145.86	3.244	
15,100.0	7,587.0	7,890.2	7,508.4	132.3	37.1	89.79	6,915.1	-42.4	557.9	410.3	147.60	3.780	
15,200.0	7,587.0	7,889.7	7,507.8	134.1	37.1	89.67	6,915.1	-42.4	647.0	497.7	149.34	4.332	
15,300.0	7,587.0	7,889.1	7,507.3	135.8	37.1	89.55	6,915.1	-42.4	738.9	587.8	151.08	4.891	
15,307.1	7,587.0	7,889.1	7,507.2	135.9	37.1	89.55	6,915.1	-42.4	745.5	594.3	151.20	4.931	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 136-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			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
12,300.0	7,587.0	8,091.5	7,498.0	83.6	47.1	89.25	5,063.7	575.3	982.7	857.3	125.39	7.837	
12,400.0	7,587.0	8,093.2	7,499.7	85.4	47.1	89.36	5,063.8	575.3	940.5	813.4	127.13	7.398	
12,500.0	7,587.0	8,094.9	7,501.4	87.1	47.1	89.47	5,063.8	575.3	907.4	778.6	128.86	7.042	
12,600.0	7,587.0	8,096.6	7,503.1	88.8	47.1	89.58	5,063.8	575.3	884.5	753.9	130.60	6.772	
12,700.0	7,587.0	8,098.2	7,504.7	90.6	47.1	89.69	5,063.9	575.3	872.5	740.2	132.34	6.593	
12,755.5	7,587.0	8,099.1	7,505.6	91.5	47.1	89.75	5,063.9	575.3	870.7	737.4	133.31	6.532 CC, ES	
12,800.0	7,587.0	8,099.8	7,506.3	92.3	47.1	89.80	5,063.9	575.3	871.9	737.8	134.08	6.503	
12,900.0	7,587.0	8,101.5	7,507.9	94.0	47.1	89.90	5,063.9	575.3	882.6	746.8	135.82	6.499 SF	
13,000.0	7,587.0	8,103.0	7,509.5	95.8	47.1	90.01	5,063.9	575.3	904.4	766.8	137.56	6.575	
13,100.0	7,587.0	8,104.6	7,511.1	97.5	47.1	90.11	5,064.0	575.3	936.4	797.1	139.29	6.722	
13,200.0	7,587.0	8,106.2	7,512.7	99.2	47.1	90.22	5,064.0	575.3	977.6	836.5	141.03	6.932	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 8264-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
12,800.0	7,587.0	7,498.0	7,498.0	92.3	13.1	90.00	5,941.0	224.2	989.5	884.2	105.29	9.398		
12,900.0	7,587.0	7,498.0	7,498.0	94.0	13.1	90.00	5,941.0	224.2	906.6	799.6	107.02	8.471		
13,000.0	7,587.0	7,498.0	7,498.0	95.8	13.1	90.00	5,941.0	224.2	827.4	718.7	108.76	7.608		
13,100.0	7,587.0	7,498.0	7,498.0	97.5	13.1	90.00	5,941.0	224.2	753.2	642.7	110.50	6.817		
13,200.0	7,587.0	7,498.0	7,498.0	99.2	13.1	90.00	5,941.0	224.2	685.6	573.4	112.24	6.109		
13,300.0	7,587.0	7,498.0	7,498.0	101.0	13.1	90.00	5,941.0	224.2	626.7	512.8	113.97	5.499		
13,400.0	7,587.0	7,498.0	7,498.0	102.7	13.1	90.00	5,941.0	224.2	579.3	463.5	115.71	5.006		
13,500.0	7,587.0	7,498.0	7,498.0	104.5	13.1	90.00	5,941.0	224.2	546.1	428.7	117.45	4.650		
13,600.0	7,587.0	7,498.0	7,498.0	106.2	13.1	90.00	5,941.0	224.2	530.1	410.9	119.19	4.447		
13,636.3	7,587.0	7,498.0	7,498.0	106.8	13.1	90.00	5,941.0	224.2	528.9	409.0	119.83	4.414 CC, ES		
13,700.0	7,587.0	7,498.0	7,498.0	107.9	13.1	90.00	5,941.0	224.2	532.7	411.7	120.93	4.405 SF		
13,800.0	7,587.0	7,498.0	7,498.0	109.7	13.1	90.00	5,941.0	224.2	553.6	430.9	122.68	4.513		
13,900.0	7,587.0	7,498.0	7,498.0	111.4	13.1	90.00	5,941.0	224.2	590.9	466.5	124.42	4.750		
14,000.0	7,587.0	7,498.0	7,498.0	113.2	13.1	90.00	5,941.0	224.2	641.8	515.7	126.16	5.087		
14,100.0	7,587.0	7,498.0	7,498.0	114.9	13.1	90.00	5,941.0	224.2	703.3	575.4	127.90	5.499		
14,200.0	7,587.0	7,498.0	7,498.0	116.6	13.1	90.00	5,941.0	224.2	772.9	643.3	129.64	5.962		
14,300.0	7,587.0	7,498.0	7,498.0	118.4	13.1	90.00	5,941.0	224.2	848.6	717.2	131.39	6.459		
14,400.0	7,587.0	7,498.0	7,498.0	120.1	13.1	90.00	5,941.0	224.2	928.9	795.8	133.13	6.977		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 73-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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		
2,300.0	2,296.5	2,527.8	2,436.1	4.5	11.7	178.46	755.9	445.9	999.6	984.3	15.33	65.205		
2,400.0	2,396.3	2,619.3	2,520.4	4.7	12.4	176.52	763.9	411.5	993.8	977.6	16.24	61.182		
2,500.0	2,496.1	2,733.6	2,625.4	4.9	13.3	174.03	773.8	367.5	989.2	971.8	17.37	56.963		
2,600.0	2,595.9	2,810.2	2,695.9	5.1	13.8	172.36	779.8	338.0	985.2	967.1	18.14	54.304		
2,700.0	2,695.8	2,919.6	2,797.4	5.3	14.6	170.10	787.7	298.0	982.8	963.7	19.15	51.320		
2,800.0	2,795.6	3,023.9	2,895.0	5.5	15.3	168.07	792.8	261.4	980.2	960.2	20.07	48.850		
2,900.0	2,895.4	3,116.2	2,981.2	5.7	15.9	166.26	796.6	228.7	977.9	957.0	20.92	46.752		
2,939.5	2,934.7	3,145.4	3,008.4	5.8	16.1	165.67	798.1	218.2	977.7	956.5	21.21	46.104		
3,000.0	2,995.2	3,189.4	3,049.3	5.9	16.4	164.77	801.0	202.3	978.3	956.6	21.65	45.197		
3,100.0	3,095.0	3,260.2	3,114.9	6.1	16.9	163.29	806.9	176.4	982.0	959.6	22.36	43.919		
3,200.0	3,194.8	3,363.0	3,210.0	6.3	17.7	161.11	816.4	138.3	987.6	964.3	23.32	42.352		
3,300.0	3,294.6	3,455.1	3,294.8	6.5	18.4	159.12	824.6	103.3	994.0	969.8	24.20	41.077		
7,700.0	7,542.6	7,820.1	7,543.2	14.1	32.7	-41.73	907.1	-587.8	966.2	941.8	24.46	39.500		
7,800.0	7,573.0	7,852.4	7,575.4	14.4	32.8	-60.06	907.5	-588.2	877.8	851.5	26.27	33.414		
7,900.0	7,586.4	7,867.1	7,590.2	14.9	32.8	-82.50	907.6	-588.4	787.3	758.1	29.14	27.014		
8,000.0	7,587.0	7,868.7	7,591.8	15.6	32.8	-88.38	907.6	-588.4	698.2	668.3	29.90	23.354		
8,100.0	7,587.0	7,869.7	7,592.8	16.5	32.8	-88.55	907.6	-588.4	612.5	581.7	30.79	19.893		
8,200.0	7,587.0	7,870.7	7,593.7	17.5	32.8	-88.71	907.6	-588.4	531.8	500.0	31.82	16.714		
8,300.0	7,587.0	7,871.6	7,594.7	18.6	32.8	-88.87	907.7	-588.4	458.7	425.8	32.95	13.920		
8,400.0	7,587.0	7,872.6	7,595.6	19.8	32.8	-89.04	907.7	-588.4	397.6	363.4	34.19	11.631		
8,500.0	7,587.0	7,873.5	7,596.6	21.1	32.8	-89.20	907.7	-588.4	354.6	319.1	35.49	9.991		
8,600.0	7,587.0	7,874.5	7,597.5	22.4	32.8	-89.36	907.7	-588.5	336.7	299.9	36.86	9.136		
8,611.8	7,587.0	7,874.6	7,597.7	22.6	32.8	-89.38	907.7	-588.5	336.5	299.5	37.03	9.089 CC, ES		
8,700.0	7,587.0	7,875.4	7,598.5	23.8	32.8	-89.52	907.7	-588.5	347.9	309.6	38.28	9.089 SF		
8,800.0	7,587.0	7,876.4	7,599.4	25.3	32.8	-89.68	907.7	-588.5	385.6	345.9	39.74	9.703		
8,900.0	7,587.0	7,877.3	7,600.3	26.8	32.8	-89.84	907.7	-588.5	443.1	401.9	41.24	10.745		
9,000.0	7,587.0	7,878.2	7,601.3	28.3	32.8	-90.00	907.7	-588.5	513.8	471.0	42.76	12.015		
9,100.0	7,587.0	7,879.1	7,602.2	29.8	32.8	-90.15	907.7	-588.5	593.0	548.7	44.31	13.381		
9,200.0	7,587.0	7,880.1	7,603.1	31.4	32.8	-90.31	907.7	-588.5	677.7	631.8	45.89	14.769		
9,300.0	7,587.0	7,881.0	7,604.0	32.9	32.8	-90.46	907.7	-588.5	766.1	718.6	47.48	16.137		
9,400.0	7,587.0	7,881.9	7,604.9	34.5	32.8	-90.62	907.7	-588.5	857.0	808.0	49.08	17.462		
9,500.0	7,587.0	7,882.8	7,605.8	36.2	32.8	-90.77	907.8	-588.5	949.8	899.1	50.70	18.735		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)				
10,900.0	7,587.0	7,507.7	7,505.9	59.6	13.3	90.92	4,186.4	-233.1	988.0	915.5	72.53	13.622		
11,000.0	7,587.0	7,507.6	7,505.8	61.3	13.3	90.82	4,186.4	-233.1	888.2	814.0	74.24	11.964		
11,100.0	7,587.0	7,507.5	7,505.7	63.0	13.3	90.72	4,186.4	-233.1	788.4	712.4	75.96	10.380		
11,200.0	7,587.0	7,507.4	7,505.6	64.7	13.3	90.62	4,186.4	-233.1	688.7	611.0	77.67	8.866		
11,300.0	7,587.0	7,507.3	7,505.5	66.4	13.3	90.51	4,186.4	-233.1	589.0	509.6	79.39	7.419		
11,400.0	7,587.0	7,507.2	7,505.4	68.1	13.3	90.40	4,186.4	-233.1	489.5	408.4	81.11	6.035		
11,500.0	7,587.0	7,507.1	7,505.3	69.8	13.3	90.30	4,186.4	-233.1	390.2	307.4	82.83	4.711		
11,600.0	7,587.0	7,507.0	7,505.2	71.6	13.3	90.19	4,186.4	-233.1	291.5	206.9	84.56	3.447		
11,700.0	7,587.0	7,506.9	7,505.1	73.3	13.3	90.07	4,186.4	-233.1	194.0	107.8	86.28	2.249		
11,800.0	7,587.0	7,506.8	7,505.0	75.0	13.3	89.96	4,186.4	-233.1	101.6	13.6	88.00	1.155 Level 2		
11,886.6	7,587.0	7,506.7	7,504.9	76.5	13.3	89.86	4,186.4	-233.1	53.1	-36.4	89.50	0.594 Level 1, CC, ES, SF		
11,900.0	7,587.0	7,506.7	7,504.9	76.7	13.3	89.85	4,186.4	-233.1	54.8	-34.9	89.73	0.611 Level 1		
12,000.0	7,587.0	7,506.6	7,504.7	78.5	13.3	89.73	4,186.4	-233.1	125.2	33.8	91.46	1.369 Level 3		
12,100.0	7,587.0	7,506.5	7,504.6	80.2	13.3	89.61	4,186.4	-233.1	219.9	126.7	93.18	2.360		
12,200.0	7,587.0	7,506.4	7,504.5	81.9	13.3	89.49	4,186.4	-233.1	317.9	222.9	94.91	3.349		
12,300.0	7,587.0	7,506.3	7,504.4	83.6	13.3	89.37	4,186.4	-233.1	416.8	320.1	96.64	4.313		
12,400.0	7,587.0	7,506.2	7,504.3	85.4	13.3	89.24	4,186.4	-233.1	516.1	417.8	98.37	5.247		
12,500.0	7,587.0	7,506.0	7,504.2	87.1	13.3	89.12	4,186.4	-233.1	615.7	515.6	100.10	6.151		
12,600.0	7,587.0	7,505.9	7,504.1	88.8	13.3	88.99	4,186.4	-233.1	715.4	613.5	101.83	7.025		
12,700.0	7,587.0	7,505.8	7,503.9	90.6	13.3	88.86	4,186.4	-233.1	815.1	711.6	103.56	7.871		
12,800.0	7,587.0	7,505.7	7,503.8	92.3	13.3	88.73	4,186.4	-233.1	914.9	809.6	105.29	8.690		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,500.0	7,587.0	7,512.4	7,510.5	36.2	13.3	85.41	2,731.0	-90.2	947.2	898.4	48.87	19.382		
9,600.0	7,587.0	7,514.0	7,512.0	37.8	13.3	85.89	2,731.0	-90.2	849.3	798.8	50.53	16.807		
9,700.0	7,587.0	7,515.5	7,513.6	39.4	13.3	86.38	2,731.0	-90.2	751.9	699.7	52.21	14.403		
9,800.0	7,587.0	7,517.1	7,515.1	41.1	13.3	86.86	2,731.0	-90.2	655.3	601.4	53.88	12.161		
9,900.0	7,587.0	7,518.6	7,516.6	42.7	13.3	87.35	2,731.0	-90.2	559.9	504.3	55.57	10.075		
10,000.0	7,587.0	7,520.1	7,518.2	44.4	13.3	87.84	2,731.1	-90.2	466.4	409.1	57.26	8.145		
10,100.0	7,587.0	7,521.7	7,519.7	46.0	13.3	88.33	2,731.1	-90.2	376.2	317.2	58.95	6.381		
10,200.0	7,587.0	7,523.2	7,521.3	47.7	13.3	88.81	2,731.1	-90.2	292.5	231.8	60.65	4.823		
10,300.0	7,587.0	7,524.8	7,522.8	49.4	13.3	89.30	2,731.1	-90.2	222.6	160.3	62.35	3.571		
10,400.0	7,587.0	7,526.3	7,524.3	51.1	13.3	89.79	2,731.2	-90.2	183.3	119.2	64.05	2.862		
10,429.9	7,587.0	7,526.8	7,524.8	51.6	13.3	89.94	2,731.2	-90.2	180.8	116.3	64.55	2.801	CC, ES, SF	
10,500.0	7,587.0	7,527.9	7,525.9	52.8	13.3	90.28	2,731.2	-90.2	193.9	128.2	65.75	2.949		
10,600.0	7,587.0	7,529.4	7,527.4	54.5	13.3	90.77	2,731.2	-90.2	248.2	180.8	67.44	3.680		
10,700.0	7,587.0	7,530.9	7,529.0	56.2	13.3	91.26	2,731.2	-90.2	325.0	255.8	69.14	4.700		
10,800.0	7,587.0	7,532.5	7,530.5	57.9	13.3	91.75	2,731.3	-90.2	411.8	341.0	70.84	5.814		
10,900.0	7,587.0	7,534.0	7,532.1	59.6	13.3	92.24	2,731.3	-90.2	503.6	431.1	72.53	6.943		
11,000.0	7,587.0	7,535.6	7,533.6	61.3	13.3	92.73	2,731.3	-90.2	598.0	523.8	74.22	8.057		
11,100.0	7,587.0	7,537.1	7,535.2	63.0	13.3	93.22	2,731.3	-90.2	693.9	618.0	75.91	9.142		
11,200.0	7,587.0	7,538.7	7,536.7	64.7	13.3	93.71	2,731.4	-90.2	790.9	713.3	77.59	10.194		
11,300.0	7,587.0	7,540.2	7,538.3	66.4	13.3	94.19	2,731.4	-90.2	888.5	809.3	79.26	11.210		
11,400.0	7,587.0	7,541.8	7,539.8	68.1	13.3	94.68	2,731.4	-90.2	986.7	905.7	80.93	12.191		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	11.52	259.4	52.9	265.2					
100.0	100.0	87.0	87.0	0.2	0.2	11.77	258.7	53.9	264.2	263.9	0.31	862.255		
200.0	200.0	186.6	186.5	0.3	0.3	12.41	256.9	56.6	263.1	262.4	0.66	399.791		
300.0	300.0	285.7	285.6	0.5	0.5	12.95	255.6	58.8	262.3	261.3	1.01	260.478		
331.9	331.9	317.4	317.3	0.6	0.6	160.79	255.3	59.3	262.2	261.1	1.13	232.470		
400.0	400.0	385.1	385.0	0.7	0.7	161.06	254.8	60.2	262.7	261.3	1.36	192.444		
500.0	500.0	484.3	484.2	0.9	0.9	161.42	254.4	61.0	264.9	263.2	1.71	154.825		
600.0	599.9	584.8	584.7	1.0	1.0	161.78	254.1	61.3	268.9	266.8	2.06	130.584		
700.0	699.7	685.0	684.9	1.2	1.2	162.15	253.8	61.1	274.2	271.8	2.41	113.909		
800.0	799.5	784.4	784.3	1.4	1.4	162.44	253.5	60.6	279.7	277.0	2.75	101.557		
900.0	899.3	884.5	884.4	1.6	1.6	162.71	253.4	59.9	285.4	282.3	3.10	91.952		
1,000.0	999.1	983.6	983.5	1.8	1.7	162.91	253.3	59.1	291.1	287.6	3.45	84.340		
1,100.0	1,098.9	1,083.9	1,083.8	2.0	1.9	163.04	253.4	57.9	296.9	293.1	3.80	78.104		
1,200.0	1,198.7	1,183.6	1,183.5	2.2	2.1	163.14	253.5	56.6	302.6	298.5	4.15	72.902		
1,300.0	1,298.5	1,282.8	1,282.6	2.4	2.2	163.19	253.8	55.0	308.5	304.0	4.50	68.546		
1,400.0	1,398.3	1,382.9	1,382.7	2.6	2.4	163.22	254.1	53.5	314.4	309.6	4.85	64.809		
1,500.0	1,498.1	1,482.7	1,482.5	2.8	2.6	163.27	254.4	51.9	320.3	315.1	5.20	61.564		
1,600.0	1,597.9	1,582.5	1,582.3	3.1	2.8	163.32	254.7	50.4	326.2	320.6	5.55	58.728		
1,700.0	1,697.7	1,682.4	1,682.2	3.3	2.9	163.37	255.0	49.0	332.0	326.1	5.91	56.226		
1,800.0	1,797.5	1,782.0	1,781.8	3.5	3.1	163.44	255.2	47.6	337.9	331.7	6.26	54.010		
1,900.0	1,897.3	1,882.8	1,882.6	3.7	3.3	163.52	255.4	46.3	343.7	337.1	6.61	52.005		
2,000.0	1,997.1	1,983.3	1,983.1	3.9	3.5	163.70	255.1	45.4	349.3	342.3	6.96	50.169		
2,100.0	2,096.9	2,083.5	2,083.2	4.1	3.6	163.93	254.6	44.9	354.7	347.3	7.31	48.502		
2,200.0	2,196.7	2,183.4	2,183.2	4.3	3.8	164.15	254.1	44.4	360.0	352.4	7.66	46.982		
2,300.0	2,296.5	2,282.9	2,282.7	4.5	4.0	164.31	253.7	43.6	365.4	357.4	8.01	45.601		
2,400.0	2,396.3	2,382.8	2,382.6	4.7	4.2	164.41	253.4	42.4	370.9	362.5	8.36	44.338		
2,500.0	2,496.1	2,483.7	2,483.4	4.9	4.3	164.49	253.0	41.1	376.2	367.5	8.72	43.152		
2,600.0	2,595.9	2,583.6	2,583.3	5.1	4.5	164.55	252.6	39.6	381.3	372.3	9.07	42.046		
2,700.0	2,695.8	2,683.4	2,683.1	5.3	4.7	164.60	252.1	38.1	386.5	377.1	9.42	41.026		
2,800.0	2,795.6	2,783.2	2,783.0	5.5	4.9	164.64	251.7	36.5	391.7	381.9	9.77	40.079		
2,900.0	2,895.4	2,884.0	2,883.7	5.7	5.0	164.64	251.2	34.6	396.8	386.6	10.13	39.180		
3,000.0	2,995.2	2,983.1	2,982.8	5.9	5.2	164.64	250.7	32.8	401.8	391.3	10.48	38.345		
3,100.0	3,095.0	3,082.5	3,082.1	6.1	5.4	164.65	250.4	31.0	407.0	396.2	10.83	37.582		
3,200.0	3,194.8	3,182.5	3,182.2	6.3	5.6	164.68	250.1	29.4	412.3	401.1	11.18	36.869		
3,300.0	3,294.6	3,282.1	3,281.7	6.5	5.7	164.75	249.7	28.1	417.5	406.0	11.53	36.202		
3,400.0	3,394.4	3,381.4	3,381.0	6.7	5.9	164.80	249.4	26.6	422.9	411.0	11.88	35.583		
3,500.0	3,494.2	3,480.9	3,480.5	7.0	6.1	164.79	249.3	24.8	428.3	416.1	12.24	35.006		
3,600.0	3,594.0	3,580.2	3,579.8	7.2	6.3	164.76	249.4	22.9	433.9	421.3	12.59	34.468		
3,700.0	3,693.8	3,679.7	3,679.2	7.4	6.4	164.76	249.5	21.2	439.6	426.6	12.94	33.969		
3,800.0	3,793.6	3,778.0	3,777.6	7.6	6.6	164.75	249.9	19.6	445.4	432.1	13.29	33.515		
3,900.0	3,893.4	3,876.4	3,876.0	7.8	6.8	164.75	250.5	18.1	451.6	438.0	13.64	33.110		
4,000.0	3,993.2	3,974.4	3,973.9	8.0	7.0	164.75	251.4	16.7	458.2	444.2	13.99	32.751		
4,100.0	4,093.0	4,073.5	4,073.0	8.2	7.1	164.70	252.8	15.0	465.1	450.7	14.34	32.424		
4,200.0	4,192.8	4,171.5	4,171.0	8.4	7.3	164.62	254.4	13.1	472.1	457.4	14.69	32.127		
4,300.0	4,292.6	4,266.3	4,265.7	8.6	7.5	164.49	256.7	11.0	479.8	464.8	15.04	31.896		
4,400.0	4,392.4	4,363.1	4,362.5	8.8	7.7	164.29	260.1	8.6	488.5	473.1	15.39	31.733		
4,500.0	4,492.2	4,462.4	4,461.6	9.0	7.8	164.10	263.9	6.2	497.5	481.7	15.75	31.580		
4,600.0	4,592.0	4,562.3	4,561.5	9.2	8.0	163.91	267.6	3.7	506.4	490.3	16.11	31.432		
4,700.0	4,691.8	4,663.4	4,662.5	9.4	8.2	163.75	271.2	1.5	515.2	498.7	16.47	31.278		
4,800.0	4,791.6	4,764.3	4,763.3	9.6	8.4	163.63	274.3	-0.6	523.6	506.8	16.83	31.115		
4,900.0	4,891.4	4,865.4	4,864.3	9.8	8.6	163.54	277.2	-2.4	531.9	514.7	17.19	30.946		
5,000.0	4,991.2	4,966.3	4,965.2	10.0	8.7	163.47	279.8	-4.3	539.9	522.3	17.55	30.768		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,100.0	5,091.0	5,066.6	5,065.4	10.2	8.9	163.40	282.2	-6.1	547.7	529.8	17.90	30.591		
5,200.0	5,190.8	5,167.1	5,165.8	10.4	9.1	163.36	284.5	-7.8	555.4	537.1	18.26	30.416		
5,300.0	5,290.6	5,266.6	5,265.4	10.7	9.3	163.33	286.6	-9.4	563.0	544.4	18.61	30.245		
5,400.0	5,390.4	5,366.1	5,364.8	10.9	9.4	163.32	288.7	-10.8	570.7	551.7	18.97	30.086		
5,500.0	5,490.2	5,465.7	5,464.4	11.1	9.6	163.32	290.8	-12.1	578.3	559.0	19.32	29.935		
5,600.0	5,590.0	5,566.0	5,564.7	11.3	9.8	163.33	292.8	-13.2	586.0	566.4	19.67	29.787		
5,700.0	5,689.9	5,666.4	5,665.0	11.5	10.0	163.37	294.7	-14.1	593.6	573.5	20.03	29.637		
5,800.0	5,789.7	5,766.2	5,764.8	11.7	10.2	163.41	296.5	-15.1	601.0	580.7	20.38	29.492		
5,900.0	5,889.5	5,866.6	5,865.2	11.9	10.3	163.46	298.1	-15.9	608.3	587.6	20.74	29.335		
6,000.0	5,989.3	5,970.9	5,969.5	12.1	10.5	163.59	298.9	-16.2	615.0	593.9	21.09	29.162		
6,100.0	6,089.1	6,072.2	6,070.8	12.3	10.7	163.73	299.5	-16.4	621.5	600.1	21.44	28.990		
6,200.0	6,188.9	6,172.2	6,170.8	12.5	10.9	163.86	299.9	-16.6	627.8	606.1	21.79	28.816		
6,300.0	6,288.7	6,272.1	6,270.7	12.7	11.0	163.98	300.3	-16.9	634.2	612.1	22.14	28.649		
6,400.0	6,388.5	6,372.1	6,370.6	12.9	11.2	164.09	300.7	-17.2	640.5	618.0	22.49	28.485		
6,500.0	6,488.3	6,471.5	6,470.1	13.1	11.4	164.19	301.1	-17.7	646.9	624.0	22.83	28.328		
6,600.0	6,588.1	6,571.0	6,569.6	13.3	11.6	164.30	301.6	-18.1	653.2	630.1	23.18	28.177		
6,700.0	6,687.9	6,670.8	6,669.4	13.5	11.7	164.40	302.2	-18.5	659.7	636.1	23.53	28.032		
6,800.0	6,787.7	6,770.6	6,769.2	13.7	11.9	164.50	302.7	-18.8	666.1	642.2	23.88	27.892		
6,900.0	6,887.5	6,872.0	6,870.6	13.9	12.1	164.62	303.0	-19.1	672.4	648.2	24.23	27.748		
7,000.0	6,987.3	6,973.4	6,972.0	14.2	12.3	161.86	303.2	-19.6	678.5	653.9	24.59	27.594		
7,100.0	7,087.0	7,075.7	7,074.3	14.3	12.4	33.13	303.1	-20.3	675.4	650.6	24.79	27.245		
7,200.0	7,184.6	7,173.8	7,172.4	14.3	12.6	26.08	302.8	-21.2	655.7	631.2	24.54	26.724		
7,300.0	7,276.9	7,265.9	7,264.5	14.2	12.8	26.54	302.6	-22.0	620.5	596.6	23.92	25.939		
7,400.0	7,361.3	7,348.7	7,347.3	14.0	12.9	30.12	302.3	-22.6	571.4	548.2	23.17	24.660		
7,500.0	7,435.1	7,420.7	7,419.2	13.9	13.0	36.97	302.3	-22.8	510.7	488.0	22.73	22.469		
7,600.0	7,496.2	7,480.7	7,479.3	13.9	13.1	48.04	302.3	-22.8	441.6	418.3	23.27	18.980		
7,700.0	7,542.6	7,526.8	7,525.3	14.1	13.2	63.25	302.4	-22.7	368.6	343.6	24.95	14.771		
7,800.0	7,573.0	7,557.1	7,555.6	14.4	13.3	78.69	302.5	-22.6	298.9	272.3	26.62	11.229		
7,900.0	7,586.4	7,570.6	7,569.2	14.9	13.3	88.48	302.6	-22.6	244.7	217.1	27.54	8.886		
8,000.0	7,587.0	7,571.5	7,570.1	15.6	13.3	89.76	302.6	-22.6	223.0	194.7	28.29	7.884		
8,000.8	7,587.0	7,571.5	7,570.1	15.6	13.3	89.76	302.6	-22.6	223.0	194.7	28.29	7.882 CC, ES, SF		
8,100.0	7,587.0	7,571.8	7,570.3	16.5	13.3	89.83	302.6	-22.6	244.1	214.9	29.18	8.365		
8,200.0	7,587.0	7,572.0	7,570.6	17.5	13.3	89.90	302.6	-22.6	299.1	268.8	30.21	9.898		
8,300.0	7,587.0	7,572.3	7,570.9	18.6	13.3	89.96	302.6	-22.6	373.2	341.8	31.36	11.902		
8,400.0	7,587.0	7,572.5	7,571.1	19.8	13.3	90.03	302.6	-22.6	457.3	424.7	32.59	14.032		
8,500.0	7,587.0	7,572.8	7,571.4	21.1	13.3	90.10	302.6	-22.6	546.8	512.9	33.90	16.129		
8,600.0	7,587.0	7,573.1	7,571.6	22.4	13.3	90.16	302.6	-22.6	639.4	604.1	35.27	18.127		
8,700.0	7,587.0	7,573.3	7,571.9	23.8	13.3	90.23	302.6	-22.6	733.9	697.3	36.70	20.001		
8,800.0	7,587.0	7,573.6	7,572.2	25.3	13.3	90.30	302.6	-22.6	829.8	791.6	38.16	21.744		
8,900.0	7,587.0	7,573.9	7,572.4	26.8	13.3	90.36	302.6	-22.6	926.5	886.8	39.66	23.360		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVEYS												Offset Site Error: 0.0 ft	
Survey Program: 73-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
1,800.0	1,797.5	2,039.8	1,999.5	3.5	7.1	-143.01	269.5	870.8	993.7	984.8	8.93	111.229	
1,900.0	1,897.3	2,145.0	2,101.1	3.7	7.6	-142.11	244.7	859.1	979.8	970.3	9.56	102.520	
2,000.0	1,997.1	2,248.2	2,200.4	3.9	8.1	-141.18	219.6	846.7	965.0	954.8	10.20	94.611	
2,100.0	2,096.9	2,341.8	2,290.4	4.1	8.6	-140.27	196.3	835.8	950.6	939.8	10.82	87.898	
2,200.0	2,196.7	2,441.0	2,386.0	4.3	9.1	-139.30	172.1	824.3	936.7	925.3	11.46	81.746	
2,300.0	2,296.5	2,533.9	2,475.4	4.5	9.5	-138.36	149.2	813.7	923.2	911.1	12.10	76.298	
2,400.0	2,396.3	2,648.3	2,585.5	4.7	10.1	-137.20	121.5	799.8	909.3	896.5	12.83	70.872	
2,500.0	2,496.1	2,754.2	2,687.0	4.9	10.7	-136.09	95.4	785.3	894.2	880.6	13.55	65.985	
2,600.0	2,595.9	2,854.8	2,783.4	5.1	11.2	-134.96	70.0	771.4	879.0	864.7	14.26	61.624	
2,700.0	2,695.8	2,944.1	2,869.0	5.3	11.7	-133.95	47.8	758.9	864.1	849.2	14.93	57.887	
2,800.0	2,795.6	3,030.3	2,951.8	5.5	12.1	-132.93	26.4	748.1	851.0	835.4	15.58	54.613	
2,900.0	2,895.4	3,123.0	3,041.0	5.7	12.6	-131.84	4.0	737.2	839.1	822.9	16.28	51.531	
3,000.0	2,995.2	3,228.5	3,142.4	5.9	13.1	-130.48	-22.7	725.0	827.6	810.5	17.10	48.402	
3,100.0	3,095.0	3,331.6	3,241.2	6.1	13.7	-129.07	-49.4	712.1	815.5	797.6	17.91	45.530	
3,200.0	3,194.8	3,429.8	3,335.3	6.3	14.2	-127.75	-74.1	699.3	803.3	784.6	18.69	42.989	
3,300.0	3,294.6	3,523.4	3,425.2	6.5	14.7	-126.51	-97.0	687.4	792.1	772.6	19.43	40.758	
3,400.0	3,394.4	3,627.1	3,525.1	6.7	15.2	-125.15	-121.5	674.0	781.1	760.9	20.23	38.617	
3,500.0	3,494.2	3,727.9	3,622.4	7.0	15.7	-123.88	-144.1	660.0	769.7	748.7	20.99	36.674	
3,600.0	3,594.0	3,807.3	3,699.2	7.2	16.0	-122.91	-161.3	649.6	759.5	737.9	21.62	35.134	
3,700.0	3,693.8	3,901.0	3,790.4	7.4	16.4	-121.83	-180.4	639.7	752.1	729.8	22.29	33.734	
3,800.0	3,793.6	3,994.8	3,882.2	7.6	16.8	-120.91	-197.1	629.5	744.7	721.8	22.91	32.501	
3,900.0	3,893.4	4,083.4	3,969.3	7.8	17.1	-120.24	-210.3	621.1	738.8	715.3	23.45	31.505	
4,000.0	3,993.2	4,177.5	4,062.3	8.0	17.4	-119.67	-222.3	613.4	734.2	710.2	23.97	30.633	
4,100.0	4,093.0	4,272.4	4,156.3	8.2	17.6	-119.20	-233.2	606.2	730.2	705.8	24.46	29.853	
4,200.0	4,192.8	4,369.2	4,252.5	8.4	17.9	-118.84	-242.7	599.5	726.9	702.0	24.91	29.177	
4,300.0	4,292.6	4,471.3	4,354.0	8.6	18.1	-118.65	-250.2	592.5	723.5	698.2	25.32	28.572	
4,400.0	4,392.4	4,562.1	4,444.6	8.8	18.3	-118.66	-254.7	587.0	720.8	695.1	25.66	28.092	
4,500.0	4,492.2	4,660.0	4,542.2	9.0	18.4	-118.71	-259.2	581.9	718.8	692.8	26.00	27.646	
4,600.0	4,592.0	4,753.6	4,635.6	9.2	18.6	-118.83	-262.6	577.3	717.2	690.9	26.31	27.258	
4,648.8	4,640.7	4,795.6	4,677.5	9.3	18.6	-118.92	-263.7	575.7	716.9	690.5	26.45	27.109 CC, ES	
4,700.0	4,691.8	4,842.7	4,724.7	9.4	18.7	-119.05	-264.5	574.4	717.1	690.5	26.57	26.986	
4,800.0	4,791.6	4,935.9	4,817.8	9.6	18.7	-119.39	-265.3	572.4	718.1	691.3	26.80	26.792	
4,900.0	4,891.4	5,033.3	4,915.2	9.8	18.8	-119.84	-264.8	571.2	720.0	693.0	27.02	26.648	
5,000.0	4,991.2	5,134.1	5,016.0	10.0	18.9	-120.36	-263.8	570.0	721.8	694.6	27.22	26.517	
5,100.0	5,091.0	5,234.8	5,116.7	10.2	19.0	-120.89	-262.5	568.6	723.6	696.2	27.43	26.384	
5,200.0	5,190.8	5,335.2	5,217.0	10.4	19.0	-121.41	-261.3	567.1	725.3	697.7	27.63	26.250	
5,300.0	5,290.6	5,432.0	5,313.8	10.7	19.1	-121.92	-260.0	565.8	727.3	699.5	27.83	26.134	
5,400.0	5,390.4	5,530.3	5,412.2	10.9	19.2	-122.45	-258.4	564.9	729.7	701.7	28.02	26.038	
5,500.0	5,490.2	5,632.5	5,514.3	11.1	19.2	-123.01	-256.7	563.8	732.0	703.8	28.22	25.938	
5,600.0	5,590.0	5,733.7	5,615.5	11.3	19.3	-123.55	-255.1	562.4	734.1	705.7	28.42	25.828	
5,700.0	5,689.9	5,834.2	5,716.0	11.5	19.4	-124.07	-253.7	560.9	736.1	707.5	28.63	25.715	
5,800.0	5,789.7	5,936.0	5,817.7	11.7	19.5	-124.58	-252.5	559.2	738.0	709.2	28.84	25.586	
5,900.0	5,889.5	6,037.6	5,919.3	11.9	19.6	-125.04	-251.8	557.2	739.7	710.6	29.07	25.444	
6,000.0	5,989.3	6,135.9	6,017.6	12.1	19.7	-125.48	-251.3	555.3	741.4	712.1	29.29	25.310	
6,100.0	6,089.1	6,234.2	6,115.8	12.3	19.8	-125.94	-250.4	553.6	743.4	713.9	29.51	25.190	
6,200.0	6,188.9	6,332.5	6,214.2	12.5	19.9	-126.41	-249.4	552.0	745.6	715.9	29.72	25.085	
6,300.0	6,288.7	6,430.4	6,312.1	12.7	20.0	-126.89	-248.2	550.7	748.1	718.1	29.94	24.986	
6,400.0	6,388.5	6,528.2	6,409.8	12.9	20.1	-127.34	-247.3	549.7	750.9	720.7	30.17	24.892	
6,500.0	6,488.3	6,627.2	6,508.8	13.1	20.2	-127.77	-246.6	548.8	753.9	723.6	30.39	24.806	
6,600.0	6,588.1	6,726.4	6,608.1	13.3	20.3	-128.21	-245.8	548.1	757.1	726.5	30.62	24.727	
6,700.0	6,687.9	6,825.5	6,707.1	13.5	20.4	-128.65	-244.8	547.4	760.4	729.6	30.85	24.652	
6,800.0	6,787.7	6,924.7	6,806.4	13.7	20.5	-129.09	-244.0	546.7	763.8	732.8	31.08	24.579	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 73-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
6,900.0	6,887.5	7,024.7	6,906.3	13.9	20.6	-129.50	-243.3	546.2	767.3	736.0	31.32	24.502	
7,000.0	6,987.3	7,124.1	7,005.7	14.2	20.7	-132.77	-242.9	545.6	770.9	739.3	31.56	24.427	
7,100.0	7,087.0	7,223.0	7,104.5	14.3	20.8	98.11	-242.3	545.2	773.4	741.6	31.78	24.336	
7,200.0	7,184.6	7,319.3	7,200.9	14.3	20.8	91.01	-241.8	544.9	774.2	742.1	32.11	24.110	
7,300.0	7,276.9	7,410.4	7,292.0	14.2	20.9	91.18	-241.2	544.7	774.7	742.3	32.49	23.848	
7,400.0	7,361.3	7,494.2	7,375.8	14.0	21.0	93.16	-240.6	544.8	777.2	744.4	32.79	23.698 SF	
7,500.0	7,435.1	7,567.8	7,449.4	13.9	21.1	95.48	-240.0	544.8	784.3	751.3	32.96	23.797	
7,600.0	7,496.2	7,628.7	7,510.2	13.9	21.2	97.13	-239.5	545.0	798.9	765.9	33.01	24.204	
7,700.0	7,542.6	7,675.0	7,556.6	14.1	21.2	97.37	-239.1	545.1	823.3	790.2	33.09	24.876	
7,800.0	7,573.0	7,705.5	7,587.1	14.4	21.2	95.62	-238.9	545.3	858.2	824.8	33.39	25.703	
7,900.0	7,586.4	7,719.3	7,600.9	14.9	21.2	91.51	-238.8	545.3	903.3	869.3	33.94	26.611	
8,000.0	7,587.0	7,720.7	7,602.2	15.6	21.2	90.02	-238.8	545.3	956.7	922.0	34.68	27.589	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5039-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-7.23	266.7	-33.8	269.5					
100.0	100.0	80.0	80.0	0.2	0.1	-7.23	266.7	-33.8	268.8	268.5	0.29	921.583		
200.0	200.0	180.0	180.0	0.3	0.3	-7.23	266.7	-33.8	268.8	268.2	0.64	419.515		
300.0	300.0	280.0	280.0	0.5	0.5	-7.23	266.7	-33.8	268.8	267.8	0.99	271.568	CC, ES	
400.0	400.0	380.0	380.0	0.7	0.7	140.59	266.7	-33.8	269.5	268.1	1.34	201.240		
500.0	500.0	480.0	480.0	0.9	0.8	140.93	266.7	-33.8	271.5	269.8	1.69	160.702		
600.0	599.9	579.9	579.9	1.0	1.0	141.48	266.7	-33.8	274.9	272.9	2.04	134.612		
700.0	699.7	679.7	679.7	1.2	1.2	142.22	266.7	-33.8	279.6	277.2	2.40	116.623		
800.0	799.5	779.5	779.5	1.4	1.4	142.99	266.7	-33.8	284.6	281.8	2.75	103.337		
900.0	899.3	879.3	879.3	1.6	1.5	143.74	266.7	-33.8	289.6	286.5	3.11	93.103		
1,000.0	999.1	979.1	979.1	1.8	1.7	144.46	266.7	-33.8	294.7	291.2	3.47	84.990		
1,100.0	1,098.9	1,078.9	1,078.9	2.0	1.9	145.16	266.7	-33.8	299.8	296.0	3.82	78.405		
1,200.0	1,198.7	1,178.7	1,178.7	2.2	2.1	145.83	266.7	-33.8	305.0	300.8	4.18	72.959		
1,300.0	1,298.5	1,278.5	1,278.5	2.4	2.2	146.48	266.7	-33.8	310.2	305.7	4.54	68.382		
1,400.0	1,398.3	1,378.3	1,378.3	2.6	2.4	147.11	266.7	-33.8	315.4	310.5	4.89	64.484		
1,500.0	1,498.1	1,478.1	1,478.1	2.8	2.6	147.72	266.7	-33.8	320.7	315.5	5.25	61.126		
1,600.0	1,597.9	1,577.9	1,577.9	3.1	2.8	148.30	266.7	-33.8	326.0	320.4	5.60	58.204		
1,700.0	1,697.7	1,677.7	1,677.7	3.3	2.9	148.87	266.7	-33.8	331.4	325.4	5.96	55.638		
1,800.0	1,797.5	1,777.5	1,777.5	3.5	3.1	149.42	266.7	-33.8	336.8	330.5	6.31	53.370		
1,900.0	1,897.3	1,877.3	1,877.3	3.7	3.3	149.96	266.7	-33.8	342.2	335.5	6.66	51.349		
2,000.0	1,997.1	1,977.1	1,977.1	3.9	3.5	150.47	266.7	-33.8	347.6	340.6	7.02	49.538		
2,100.0	2,096.9	2,076.9	2,076.9	4.1	3.6	150.97	266.7	-33.8	353.1	345.7	7.37	47.907		
2,200.0	2,196.7	2,176.7	2,176.7	4.3	3.8	151.46	266.7	-33.8	358.6	350.9	7.72	46.431		
2,300.0	2,296.5	2,276.5	2,276.5	4.5	4.0	151.93	266.7	-33.8	364.1	356.0	8.08	45.088		
2,400.0	2,396.3	2,376.3	2,376.3	4.7	4.1	152.39	266.7	-33.8	369.7	361.2	8.43	43.861		
2,500.0	2,496.1	2,476.1	2,476.1	4.9	4.3	152.83	266.7	-33.8	375.2	366.5	8.78	42.737		
2,600.0	2,595.9	2,575.9	2,575.9	5.1	4.5	153.26	266.7	-33.8	380.8	371.7	9.13	41.703		
2,700.0	2,695.8	2,675.8	2,675.8	5.3	4.7	153.68	266.7	-33.8	386.4	377.0	9.48	40.749		
2,800.0	2,795.6	2,775.6	2,775.6	5.5	4.8	154.09	266.7	-33.8	392.1	382.2	9.83	39.866		
2,900.0	2,895.4	2,875.4	2,875.4	5.7	5.0	154.48	266.7	-33.8	397.7	387.5	10.19	39.046		
3,000.0	2,995.2	2,975.2	2,975.2	5.9	5.2	154.86	266.7	-33.8	403.4	392.8	10.54	38.284		
3,100.0	3,095.0	3,075.0	3,075.0	6.1	5.4	155.24	266.7	-33.8	409.1	398.2	10.89	37.573		
3,200.0	3,194.8	3,174.8	3,174.8	6.3	5.5	155.60	266.7	-33.8	414.8	403.5	11.24	36.908		
3,300.0	3,294.6	3,274.6	3,274.6	6.5	5.7	155.95	266.7	-33.8	420.5	408.9	11.59	36.286		
3,400.0	3,394.4	3,374.4	3,374.4	6.7	5.9	156.30	266.7	-33.8	426.2	414.3	11.94	35.701		
3,500.0	3,494.2	3,474.2	3,474.2	7.0	6.1	156.63	266.7	-33.8	432.0	419.7	12.29	35.152		
3,600.0	3,594.0	3,574.0	3,574.0	7.2	6.2	156.96	266.7	-33.8	437.7	425.1	12.64	34.635		
3,700.0	3,693.8	3,673.8	3,673.8	7.4	6.4	157.27	266.7	-33.8	443.5	430.5	12.99	34.147		
3,800.0	3,793.6	3,773.6	3,773.6	7.6	6.6	157.58	266.7	-33.8	449.3	436.0	13.34	33.685		
3,900.0	3,893.4	3,873.4	3,873.4	7.8	6.8	157.88	266.7	-33.8	455.1	441.4	13.69	33.249		
4,000.0	3,993.2	3,973.2	3,973.2	8.0	6.9	158.17	266.7	-33.8	460.9	446.9	14.04	32.835		
4,100.0	4,093.0	4,073.0	4,073.0	8.2	7.1	158.46	266.7	-33.8	466.7	452.4	14.39	32.443		
4,200.0	4,192.8	4,172.8	4,172.8	8.4	7.3	158.74	266.7	-33.8	472.6	457.8	14.74	32.070		
4,300.0	4,292.6	4,272.6	4,272.6	8.6	7.5	159.01	266.7	-33.8	478.4	463.3	15.09	31.715		
4,400.0	4,392.4	4,372.4	4,372.4	8.8	7.6	159.28	266.7	-33.8	484.3	468.9	15.43	31.377		
4,500.0	4,492.2	4,472.2	4,472.2	9.0	7.8	159.54	266.7	-33.8	490.2	474.4	15.78	31.055		
4,600.0	4,592.0	4,572.0	4,572.0	9.2	8.0	159.79	266.7	-33.8	496.0	479.9	16.13	30.748		
4,700.0	4,691.8	4,671.8	4,671.8	9.4	8.2	160.04	266.7	-33.8	501.9	485.4	16.48	30.454		
4,800.0	4,791.6	4,771.6	4,771.6	9.6	8.3	160.28	266.7	-33.8	507.8	491.0	16.83	30.173		
4,900.0	4,891.4	4,871.4	4,871.4	9.8	8.5	160.51	266.7	-33.8	513.7	496.5	17.18	29.904		
5,000.0	4,991.2	4,971.2	4,971.2	10.0	8.7	160.74	266.7	-33.8	519.6	502.1	17.53	29.647		
5,100.0	5,091.0	5,039.0	5,039.0	10.2	8.8	160.90	266.7	-33.8	526.5	508.7	17.82	29.545	SF	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

S22-T2N-R68W (Jillson-East Rinn) - JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 5039-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,190.8	5,039.0	5,039.0	10.4	8.8	160.90	266.7	-33.8	547.6	529.6	18.00	30.422	
5,300.0	5,290.6	5,039.0	5,039.0	10.7	8.8	160.90	266.7	-33.8	585.2	567.1	18.18	32.194	
5,400.0	5,390.4	5,039.0	5,039.0	10.9	8.8	160.90	266.7	-33.8	636.5	618.1	18.36	34.673	
5,500.0	5,490.2	5,039.0	5,039.0	11.1	8.8	160.90	266.7	-33.8	698.4	679.8	18.53	37.679	
5,600.0	5,590.0	5,039.0	5,039.0	11.3	8.8	160.90	266.7	-33.8	768.4	749.6	18.71	41.060	
5,700.0	5,689.9	5,039.0	5,039.0	11.5	8.8	160.90	266.7	-33.8	844.4	825.5	18.89	44.697	
5,800.0	5,789.7	5,039.0	5,039.0	11.7	8.8	160.90	266.7	-33.8	925.0	905.9	19.07	48.506	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	12.0	12.0	0.0	0.0	-90.00	0.0	-10.1	10.1					
100.0	100.0	112.0	112.0	0.2	0.2	-90.00	0.0	-10.1	10.1	9.8	0.30	33.153		
162.1	162.1	174.1	174.1	0.3	0.3	-90.00	0.0	-10.1	10.1	9.5	0.52	19.342 CC		
200.0	200.0	212.0	212.0	0.3	0.3	-90.05	0.0	-10.1	10.1	9.4	0.65	15.437		
300.0	300.0	311.8	311.8	0.5	0.5	-93.97	-0.8	-10.9	10.9	9.9	1.00	10.867		
400.0	400.0	411.7	411.6	0.7	0.7	48.72	-2.7	-12.9	12.6	11.2	1.35	9.302		
500.0	500.0	511.4	511.3	0.9	0.9	46.23	-5.8	-16.2	14.6	12.9	1.71	8.564		
600.0	599.9	611.2	610.8	1.0	1.1	45.50	-10.2	-20.7	16.9	14.9	2.07	8.190		
700.0	699.7	711.1	710.4	1.2	1.3	46.27	-15.5	-26.2	19.3	16.8	2.44	7.907		
800.0	799.5	811.0	810.1	1.4	1.5	47.34	-20.8	-31.8	21.5	18.7	2.81	7.637		
900.0	899.3	911.0	909.8	1.6	1.7	48.22	-26.1	-37.4	23.7	20.5	3.19	7.424		
1,000.0	999.1	1,011.0	1,009.5	1.8	1.9	48.94	-31.5	-43.0	25.9	22.4	3.58	7.252		
1,100.0	1,098.9	1,111.0	1,109.1	2.0	2.1	49.55	-36.8	-48.6	28.2	24.2	3.96	7.111		
1,200.0	1,198.7	1,210.9	1,208.8	2.2	2.4	50.07	-42.1	-54.2	30.4	26.0	4.34	6.993		
1,300.0	1,298.5	1,310.9	1,308.5	2.4	2.6	50.52	-47.5	-59.8	32.6	27.9	4.73	6.893		
1,400.0	1,398.3	1,410.9	1,408.2	2.6	2.8	50.92	-52.8	-65.4	34.8	29.7	5.12	6.807		
1,500.0	1,498.1	1,510.9	1,507.8	2.8	3.0	51.26	-58.1	-70.9	37.1	31.6	5.51	6.732		
1,600.0	1,597.9	1,610.8	1,607.5	3.1	3.2	51.57	-63.5	-76.5	39.3	33.4	5.90	6.667		
1,700.0	1,697.7	1,710.8	1,707.2	3.3	3.5	51.84	-68.8	-82.1	41.5	35.2	6.28	6.609		
1,800.0	1,797.5	1,810.8	1,806.9	3.5	3.7	52.08	-74.2	-87.7	43.8	37.1	6.67	6.557		
1,900.0	1,897.3	1,910.8	1,906.5	3.7	3.9	52.31	-79.5	-93.3	46.0	38.9	7.06	6.511		
2,000.0	1,997.1	2,010.7	2,006.2	3.9	4.1	52.51	-84.8	-98.9	48.2	40.8	7.46	6.470		
2,100.0	2,096.9	2,110.7	2,105.9	4.1	4.3	52.69	-90.2	-104.5	50.5	42.6	7.85	6.433		
2,200.0	2,196.7	2,210.7	2,205.6	4.3	4.6	52.86	-95.5	-110.0	52.7	44.5	8.24	6.399		
2,300.0	2,296.5	2,310.7	2,305.2	4.5	4.8	53.01	-100.8	-115.6	54.9	46.3	8.63	6.367		
2,400.0	2,396.3	2,410.6	2,404.9	4.7	5.0	53.15	-106.2	-121.2	57.2	48.2	9.02	6.339		
2,500.0	2,496.1	2,510.6	2,504.6	4.9	5.2	53.28	-111.5	-126.8	59.4	50.0	9.41	6.313		
2,600.0	2,595.9	2,610.6	2,604.3	5.1	5.4	53.41	-116.8	-132.4	61.7	51.9	9.81	6.289		
2,700.0	2,695.8	2,710.6	2,703.9	5.3	5.7	53.52	-122.2	-138.0	63.9	53.7	10.20	6.266		
2,800.0	2,795.6	2,810.5	2,803.6	5.5	5.9	53.62	-127.5	-143.6	66.1	55.5	10.59	6.245		
2,900.0	2,895.4	2,910.5	2,903.3	5.7	6.1	53.72	-132.8	-149.2	68.4	57.4	10.98	6.226		
3,000.0	2,995.2	3,010.5	3,003.0	5.9	6.3	53.82	-138.2	-154.7	70.6	59.2	11.37	6.208		
3,100.0	3,095.0	3,110.5	3,102.6	6.1	6.5	53.90	-143.5	-160.3	72.9	61.1	11.77	6.191		
3,200.0	3,194.8	3,210.4	3,202.3	6.3	6.8	53.98	-148.9	-165.9	75.1	62.9	12.16	6.175		
3,300.0	3,294.6	3,310.4	3,302.0	6.5	7.0	54.06	-154.2	-171.5	77.3	64.8	12.55	6.160		
3,400.0	3,394.4	3,410.4	3,401.7	6.7	7.2	54.13	-159.5	-177.1	79.6	66.6	12.95	6.147		
3,500.0	3,494.2	3,510.4	3,501.4	7.0	7.4	54.20	-164.9	-182.7	81.8	68.5	13.34	6.133		
3,600.0	3,594.0	3,610.3	3,601.0	7.2	7.6	54.27	-170.2	-188.3	84.1	70.3	13.73	6.121		
3,700.0	3,693.8	3,710.3	3,700.7	7.4	7.9	54.33	-175.5	-193.8	86.3	72.2	14.12	6.109		
3,800.0	3,793.6	3,810.3	3,800.4	7.6	8.1	54.39	-180.9	-199.4	88.5	74.0	14.52	6.098		
3,900.0	3,893.4	3,910.3	3,900.1	7.8	8.3	54.44	-186.2	-205.0	90.8	75.9	14.91	6.087		
4,000.0	3,993.2	4,010.2	3,999.7	8.0	8.5	54.49	-191.5	-210.6	93.0	77.7	15.30	6.077		
4,100.0	4,093.0	4,110.2	4,099.4	8.2	8.7	54.54	-196.9	-216.2	95.3	79.6	15.70	6.068		
4,200.0	4,192.8	4,210.2	4,199.1	8.4	9.0	54.59	-202.2	-221.8	97.5	81.4	16.09	6.059		
4,300.0	4,292.6	4,310.2	4,298.8	8.6	9.2	54.64	-207.6	-227.4	99.7	83.2	16.48	6.050		
4,400.0	4,392.4	4,410.1	4,398.4	8.8	9.4	54.68	-212.9	-232.9	102.0	85.1	16.88	6.042		
4,500.0	4,492.2	4,510.1	4,498.1	9.0	9.6	54.72	-218.2	-238.5	104.2	86.9	17.27	6.034		
4,600.0	4,592.0	4,610.1	4,597.8	9.2	9.8	54.76	-223.6	-244.1	106.5	88.8	17.66	6.026		
4,700.0	4,691.8	4,710.1	4,697.5	9.4	10.1	54.80	-228.9	-249.7	108.7	90.6	18.06	6.019		
4,800.0	4,791.6	4,810.0	4,797.1	9.6	10.3	54.84	-234.2	-255.3	110.9	92.5	18.45	6.012		
4,900.0	4,891.4	4,910.0	4,896.8	9.8	10.5	54.87	-239.6	-260.9	113.2	94.3	18.85	6.005		
5,000.0	4,991.2	5,010.0	4,996.5	10.0	10.7	54.91	-244.9	-266.5	115.4	96.2	19.24	5.999		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,100.0	5,091.0	5,110.0	5,096.2	10.2	10.9	54.94	-250.2	-272.1	117.7	98.0	19.63	5.993		
5,200.0	5,190.8	5,209.9	5,195.8	10.4	11.2	54.97	-255.6	-277.6	119.9	99.9	20.03	5.987		
5,300.0	5,290.6	5,309.9	5,295.5	10.7	11.4	55.00	-260.9	-283.2	122.1	101.7	20.42	5.981		
5,400.0	5,390.4	5,409.9	5,395.2	10.9	11.6	55.03	-266.2	-288.8	124.4	103.6	20.81	5.976		
5,500.0	5,490.2	5,509.9	5,494.9	11.1	11.8	55.06	-271.6	-294.4	126.6	105.4	21.21	5.971		
5,600.0	5,590.0	5,609.8	5,594.5	11.3	12.0	55.09	-276.9	-300.0	128.9	107.3	21.60	5.966		
5,700.0	5,689.9	5,709.8	5,694.2	11.5	12.3	55.12	-282.3	-305.6	131.1	109.1	21.99	5.961		
5,800.0	5,789.7	5,809.8	5,793.9	11.7	12.5	55.14	-287.6	-311.2	133.3	111.0	22.39	5.956		
5,900.0	5,889.5	5,909.8	5,893.6	11.9	12.7	55.17	-292.9	-316.7	135.6	112.8	22.78	5.951		
6,000.0	5,989.3	6,009.7	5,993.2	12.1	12.9	55.19	-298.3	-322.3	137.8	114.6	23.17	5.947		
6,100.0	6,089.1	6,109.7	6,092.9	12.3	13.1	55.21	-303.6	-327.9	140.1	116.5	23.57	5.943		
6,200.0	6,188.9	6,209.7	6,192.6	12.5	13.4	55.23	-308.9	-333.5	142.3	118.3	23.96	5.939		
6,300.0	6,288.7	6,309.7	6,292.3	12.7	13.6	55.26	-314.3	-339.1	144.5	120.2	24.36	5.935		
6,400.0	6,388.5	6,409.6	6,392.0	12.9	13.8	55.28	-319.6	-344.7	146.8	122.0	24.75	5.931		
6,500.0	6,488.3	6,509.6	6,491.6	13.1	14.0	55.30	-324.9	-350.3	149.0	123.9	25.14	5.927		
6,600.0	6,588.1	6,609.6	6,591.3	13.3	14.2	55.32	-330.3	-355.9	151.3	125.7	25.54	5.923		
6,700.0	6,687.9	6,709.6	6,691.0	13.5	14.5	55.34	-335.6	-361.4	153.5	127.6	25.93	5.920		
6,800.0	6,787.7	6,809.5	6,790.7	13.7	14.7	55.36	-341.0	-367.0	155.8	129.4	26.33	5.916		
6,900.0	6,887.5	6,909.7	6,890.6	13.9	14.9	55.39	-345.4	-372.6	158.0	131.2	26.73	5.910		
7,000.0	6,987.3	7,008.2	6,988.4	14.2	15.0	57.81	-336.8	-378.3	160.5	133.2	27.37	5.865		
7,100.0	7,087.0	7,102.2	7,079.1	14.3	15.0	-63.85	-313.0	-383.7	165.6	137.7	27.92	5.933		
7,200.0	7,184.6	7,193.4	7,162.1	14.3	14.9	-65.73	-276.1	-388.9	172.9	144.9	27.99	6.176		
7,300.0	7,276.9	7,282.0	7,236.3	14.2	14.8	-62.42	-227.9	-393.7	181.4	153.8	27.59	6.574		
7,400.0	7,361.3	7,368.6	7,300.8	14.0	14.8	-58.90	-170.4	-398.0	190.2	163.4	26.79	7.098		
7,500.0	7,435.1	7,450.0	7,352.9	13.9	14.8	-55.98	-108.0	-401.7	198.5	172.8	25.79	7.698		
7,600.0	7,496.2	7,537.3	7,398.3	13.9	14.8	-53.53	-33.7	-405.2	205.7	180.9	24.78	8.301		
7,700.0	7,542.6	7,620.0	7,430.4	14.1	15.0	-51.86	42.4	-408.0	211.4	187.2	24.13	8.758		
7,800.0	7,573.0	7,700.0	7,450.8	14.4	15.3	-50.85	119.6	-410.1	215.1	191.1	24.05	8.945		
7,900.0	7,586.4	7,783.9	7,460.5	14.9	15.8	-50.45	202.9	-411.6	216.7	192.0	24.75	8.755		
8,000.0	7,587.0	7,878.4	7,461.0	15.6	16.4	-50.48	297.4	-412.8	216.9	190.9	25.96	8.353		
8,100.0	7,587.0	7,978.4	7,461.0	16.5	17.2	-50.51	397.4	-414.1	217.0	189.6	27.36	7.932		
8,200.0	7,587.0	8,078.4	7,461.0	17.5	18.2	-50.54	497.4	-415.3	217.1	188.2	28.94	7.502		
8,300.0	7,587.0	8,178.4	7,461.0	18.6	19.3	-50.57	597.4	-416.5	217.3	186.6	30.69	7.079		
8,400.0	7,587.0	8,278.4	7,461.0	19.8	20.4	-50.60	697.4	-417.7	217.4	184.8	32.57	6.674		
8,500.0	7,587.0	8,378.4	7,461.0	21.1	21.7	-50.63	797.4	-418.9	217.5	183.0	34.57	6.293		
8,600.0	7,587.0	8,478.4	7,461.0	22.4	23.0	-50.65	897.4	-420.2	217.7	181.0	36.66	5.937		
8,700.0	7,587.0	8,578.4	7,461.0	23.8	24.3	-50.68	997.4	-421.4	217.8	179.0	38.84	5.608		
8,800.0	7,587.0	8,678.4	7,461.0	25.3	25.7	-50.71	1,097.4	-422.6	217.9	176.9	41.08	5.305		
8,900.0	7,587.0	8,778.4	7,461.0	26.8	27.2	-50.74	1,197.4	-423.8	218.1	174.7	43.39	5.026		
9,000.0	7,587.0	8,878.4	7,461.0	28.3	28.7	-50.77	1,297.4	-425.1	218.2	172.5	45.74	4.771		
9,100.0	7,587.0	8,978.4	7,461.0	29.8	30.2	-50.80	1,397.4	-426.3	218.3	170.2	48.13	4.536		
9,200.0	7,587.0	9,078.4	7,461.0	31.4	31.7	-50.83	1,497.3	-427.5	218.5	167.9	50.57	4.321		
9,300.0	7,587.0	9,178.4	7,461.0	32.9	33.3	-50.86	1,597.3	-428.7	218.6	165.6	53.03	4.122		
9,400.0	7,587.0	9,278.4	7,461.0	34.5	34.9	-50.89	1,697.3	-429.9	218.7	163.2	55.53	3.940		
9,500.0	7,587.0	9,378.4	7,461.0	36.2	36.5	-50.92	1,797.3	-431.2	218.9	160.8	58.04	3.771		
9,600.0	7,587.0	9,478.4	7,461.0	37.8	38.1	-50.94	1,897.3	-432.4	219.0	158.4	60.59	3.615		
9,700.0	7,587.0	9,578.4	7,461.0	39.4	39.7	-50.97	1,997.3	-433.6	219.2	156.0	63.15	3.471		
9,800.0	7,587.0	9,678.4	7,461.0	41.1	41.3	-51.00	2,097.3	-434.8	219.3	153.6	65.73	3.336		
9,900.0	7,587.0	9,778.4	7,461.0	42.7	43.0	-51.03	2,197.3	-436.0	219.4	151.1	68.32	3.212		
10,000.0	7,587.0	9,878.4	7,461.0	44.4	44.6	-51.06	2,297.3	-437.3	219.6	148.6	70.93	3.096		
10,100.0	7,587.0	9,978.4	7,461.0	46.0	46.3	-51.09	2,397.3	-438.5	219.7	146.1	73.55	2.987		
10,200.0	7,587.0	10,078.4	7,461.0	47.7	48.0	-51.12	2,497.3	-439.7	219.8	143.6	76.19	2.885		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	
10,300.0	7,587.0	10,178.4	7,461.0	49.4	49.6	-51.14	2,597.3	-440.9	220.0	141.1	78.83	2.790		
10,400.0	7,587.0	10,278.4	7,461.0	51.1	51.3	-51.17	2,697.3	-442.2	220.1	138.6	81.49	2.701		
10,500.0	7,587.0	10,378.4	7,461.0	52.8	53.0	-51.20	2,797.2	-443.4	220.2	136.1	84.15	2.617		
10,600.0	7,587.0	10,478.4	7,461.0	54.5	54.7	-51.23	2,897.2	-444.6	220.4	133.6	86.83	2.538		
10,700.0	7,587.0	10,578.4	7,461.0	56.2	56.4	-51.26	2,997.2	-445.8	220.5	131.0	89.51	2.464		
10,800.0	7,587.0	10,678.4	7,461.0	57.9	58.1	-51.29	3,097.2	-447.0	220.6	128.5	92.20	2.393		
10,900.0	7,587.0	10,778.4	7,461.0	59.6	59.8	-51.31	3,197.2	-448.3	220.8	125.9	94.90	2.327		
11,000.0	7,587.0	10,878.4	7,461.0	61.3	61.5	-51.34	3,297.2	-449.5	220.9	123.3	97.60	2.264		
11,100.0	7,587.0	10,978.4	7,461.0	63.0	63.2	-51.37	3,397.2	-450.7	221.1	120.7	100.31	2.204		
11,200.0	7,587.0	11,078.4	7,461.0	64.7	64.9	-51.40	3,497.2	-451.9	221.2	118.2	103.03	2.147		
11,300.0	7,587.0	11,178.4	7,461.0	66.4	66.6	-51.43	3,597.2	-453.1	221.3	115.6	105.75	2.093		
11,400.0	7,587.0	11,278.4	7,461.0	68.1	68.3	-51.46	3,697.2	-454.4	221.5	113.0	108.48	2.042		
11,500.0	7,587.0	11,378.4	7,461.0	69.8	70.0	-51.48	3,797.2	-455.6	221.6	110.4	111.21	1.993		
11,600.0	7,587.0	11,478.4	7,461.0	71.6	71.7	-51.51	3,897.2	-456.8	221.7	107.8	113.95	1.946		
11,700.0	7,587.0	11,578.4	7,461.0	73.3	73.4	-51.54	3,997.2	-458.0	221.9	105.2	116.69	1.901		
11,800.0	7,587.0	11,678.4	7,461.0	75.0	75.1	-51.57	4,097.1	-459.3	222.0	102.6	119.44	1.859		
11,900.0	7,587.0	11,778.4	7,461.0	76.7	76.9	-51.60	4,197.1	-460.5	222.2	100.0	122.19	1.818		
12,000.0	7,587.0	11,878.4	7,461.0	78.5	78.6	-51.62	4,297.1	-461.7	222.3	97.3	124.94	1.779		
12,100.0	7,587.0	11,978.4	7,461.0	80.2	80.3	-51.65	4,397.1	-462.9	222.4	94.7	127.70	1.742		
12,200.0	7,587.0	12,078.4	7,461.0	81.9	82.0	-51.68	4,497.1	-464.1	222.6	92.1	130.46	1.706		
12,300.0	7,587.0	12,178.4	7,461.0	83.6	83.8	-51.71	4,597.1	-465.4	222.7	89.5	133.23	1.672		
12,400.0	7,587.0	12,278.4	7,461.0	85.4	85.5	-51.74	4,697.1	-466.6	222.8	86.8	136.00	1.638		
12,500.0	7,587.0	12,378.4	7,461.0	87.1	87.2	-51.76	4,797.1	-467.8	223.0	84.2	138.78	1.607		
12,600.0	7,587.0	12,478.4	7,461.0	88.8	88.9	-51.79	4,897.1	-469.0	223.1	81.6	141.56	1.576		
12,700.0	7,587.0	12,578.4	7,461.0	90.6	90.7	-51.82	4,997.1	-470.3	223.2	78.9	144.34	1.547		
12,800.0	7,587.0	12,678.4	7,461.0	92.3	92.4	-51.85	5,097.1	-471.5	223.4	76.3	147.12	1.518		
12,900.0	7,587.0	12,778.4	7,461.0	94.0	94.1	-51.87	5,197.1	-472.7	223.5	73.6	149.91	1.491 Level 3		
13,000.0	7,587.0	12,878.4	7,461.0	95.8	95.9	-51.90	5,297.1	-473.9	223.7	71.0	152.70	1.465 Level 3		
13,100.0	7,587.0	12,978.4	7,461.0	97.5	97.6	-51.93	5,397.0	-475.1	223.8	68.3	155.50	1.439 Level 3		
13,200.0	7,587.0	13,078.4	7,461.0	99.2	99.3	-51.96	5,497.0	-476.4	223.9	65.6	158.29	1.415 Level 3		
13,300.0	7,587.0	13,178.4	7,461.0	101.0	101.1	-51.98	5,597.0	-477.6	224.1	63.0	161.09	1.391 Level 3		
13,400.0	7,587.0	13,278.4	7,461.0	102.7	102.8	-52.01	5,697.0	-478.8	224.2	60.3	163.90	1.368 Level 3		
13,500.0	7,587.0	13,378.4	7,461.0	104.5	104.5	-52.04	5,797.0	-480.0	224.3	57.6	166.70	1.346 Level 3		
13,600.0	7,587.0	13,478.4	7,461.0	106.2	106.3	-52.07	5,897.0	-481.2	224.5	55.0	169.51	1.324 Level 3		
13,700.0	7,587.0	13,578.4	7,461.0	107.9	108.0	-52.09	5,997.0	-482.5	224.6	52.3	172.32	1.303 Level 3		
13,800.0	7,587.0	13,678.4	7,461.0	109.7	109.8	-52.12	6,097.0	-483.7	224.8	49.6	175.14	1.283 Level 3		
13,900.0	7,587.0	13,778.4	7,461.0	111.4	111.5	-52.15	6,197.0	-484.9	224.9	46.9	177.96	1.264 Level 3		
14,000.0	7,587.0	13,878.4	7,461.0	113.2	113.2	-52.18	6,297.0	-486.1	225.0	44.3	180.78	1.245 Level 2		
14,100.0	7,587.0	13,978.4	7,461.0	114.9	115.0	-52.20	6,397.0	-487.4	225.2	41.6	183.60	1.226 Level 2		
14,200.0	7,587.0	14,078.4	7,461.0	116.6	116.7	-52.23	6,497.0	-488.6	225.3	38.9	186.42	1.209 Level 2		
14,300.0	7,587.0	14,178.4	7,461.0	118.4	118.5	-52.26	6,597.0	-489.8	225.4	36.2	189.25	1.191 Level 2		
14,400.0	7,587.0	14,278.4	7,461.0	120.1	120.2	-52.28	6,696.9	-491.0	225.6	33.5	192.08	1.174 Level 2		
14,500.0	7,587.0	14,378.4	7,461.0	121.9	121.9	-52.31	6,796.9	-492.2	225.7	30.8	194.91	1.158 Level 2		
14,600.0	7,587.0	14,478.4	7,461.0	123.6	123.7	-52.34	6,896.9	-493.5	225.9	28.1	197.75	1.142 Level 2		
14,700.0	7,587.0	14,578.4	7,461.0	125.3	125.4	-52.37	6,996.9	-494.7	226.0	25.4	200.58	1.127 Level 2		
14,800.0	7,587.0	14,678.4	7,461.0	127.1	127.2	-52.39	7,096.9	-495.9	226.1	22.7	203.42	1.112 Level 2		
14,900.0	7,587.0	14,778.4	7,461.0	128.8	128.9	-52.42	7,196.9	-497.1	226.3	20.0	206.27	1.097 Level 2		
15,000.0	7,587.0	14,878.4	7,461.0	130.6	130.6	-52.45	7,296.9	-498.3	226.4	17.3	209.11	1.083 Level 2		
15,100.0	7,587.0	14,978.4	7,461.0	132.3	132.4	-52.47	7,396.9	-499.6	226.6	14.6	211.96	1.069 Level 2		
15,200.0	7,587.0	15,078.4	7,461.0	134.1	134.1	-52.50	7,496.9	-500.8	226.7	11.9	214.81	1.055 Level 2		
15,300.0	7,587.0	15,178.4	7,461.0	135.8	135.9	-52.53	7,596.9	-502.0	226.8	9.2	217.66	1.042 Level 2		
15,307.1	7,587.0	15,185.5	7,461.0	135.9	136.0	-52.53	7,604.0	-502.1	226.8	9.0	217.86	1.041 Level 2, ES, SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	10.1	10.1	9.8	0.30	33.153		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	10.1	10.1	9.4	0.65	15.424		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	10.1	10.1	9.1	1.00	10.050	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	-126.25	0.0	10.1	10.6	9.2	1.35	7.814		
500.0	500.0	500.0	500.0	0.9	0.8	-136.13	0.0	10.1	12.3	10.6	1.70	7.221		
600.0	599.9	599.9	599.9	1.0	1.0	-147.19	0.0	10.1	15.7	13.7	2.05	7.663		
700.0	699.7	699.9	699.9	1.2	1.2	-154.37	-0.9	9.9	20.4	18.0	2.40	8.474		
800.0	799.5	800.2	800.1	1.4	1.4	-156.44	-3.4	9.3	24.2	21.4	2.76	8.769		
900.0	899.3	900.4	900.3	1.6	1.6	-155.48	-7.7	8.3	26.7	23.6	3.11	8.573		
1,000.0	999.1	1,000.6	1,000.3	1.8	1.7	-152.65	-13.3	6.9	28.2	24.8	3.48	8.113		
1,100.0	1,098.9	1,100.5	1,100.1	2.0	1.9	-149.93	-19.1	5.6	29.7	25.9	3.85	7.723		
1,200.0	1,198.7	1,200.5	1,199.9	2.2	2.1	-147.47	-24.9	4.2	31.3	27.1	4.23	7.407		
1,300.0	1,298.5	1,300.5	1,299.7	2.4	2.3	-145.25	-30.6	2.8	32.9	28.3	4.61	7.148		
1,400.0	1,398.3	1,400.5	1,399.5	2.6	2.5	-143.24	-36.4	1.5	34.6	29.6	4.99	6.932		
1,500.0	1,498.1	1,500.5	1,499.3	2.8	2.7	-141.42	-42.2	0.1	36.3	30.9	5.38	6.750		
1,600.0	1,597.9	1,600.4	1,599.1	3.1	2.9	-139.76	-48.0	-1.2	38.0	32.3	5.77	6.595		
1,700.0	1,697.7	1,700.4	1,698.9	3.3	3.1	-138.25	-53.7	-2.6	39.8	33.6	6.16	6.462		
1,800.0	1,797.5	1,800.4	1,798.7	3.5	3.3	-136.87	-59.5	-4.0	41.6	35.0	6.55	6.347		
1,900.0	1,897.3	1,900.4	1,898.5	3.7	3.5	-135.60	-65.3	-5.3	43.4	36.5	6.95	6.247		
2,000.0	1,997.1	2,000.3	1,998.3	3.9	3.7	-134.44	-71.1	-6.7	45.2	37.9	7.35	6.159		
2,100.0	2,096.9	2,100.3	2,098.1	4.1	3.9	-133.36	-76.8	-8.1	47.1	39.3	7.74	6.081		
2,200.0	2,196.7	2,200.3	2,197.9	4.3	4.1	-132.37	-82.6	-9.4	49.0	40.8	8.14	6.012		
2,300.0	2,296.5	2,300.3	2,297.7	4.5	4.3	-131.45	-88.4	-10.8	50.8	42.3	8.54	5.951		
2,400.0	2,396.3	2,400.3	2,397.5	4.7	4.5	-130.60	-94.1	-12.1	52.7	43.8	8.94	5.896		
2,500.0	2,496.1	2,500.2	2,497.3	4.9	4.7	-129.80	-99.9	-13.5	54.6	45.3	9.34	5.846		
2,600.0	2,595.9	2,600.2	2,597.1	5.1	4.9	-129.06	-105.7	-14.9	56.5	46.8	9.75	5.801		
2,700.0	2,695.8	2,700.2	2,696.9	5.3	5.1	-128.37	-111.5	-16.2	58.5	48.3	10.15	5.760		
2,800.0	2,795.6	2,800.2	2,796.7	5.5	5.3	-127.72	-117.2	-17.6	60.4	49.8	10.55	5.723		
2,900.0	2,895.4	2,900.2	2,896.5	5.7	5.5	-127.11	-123.0	-19.0	62.3	51.4	10.95	5.689		
3,000.0	2,995.2	3,000.1	2,996.3	5.9	5.7	-126.54	-128.8	-20.3	64.3	52.9	11.36	5.658		
3,100.0	3,095.0	3,100.1	3,096.1	6.1	5.9	-126.00	-134.6	-21.7	66.2	54.5	11.76	5.630		
3,200.0	3,194.8	3,200.1	3,195.9	6.3	6.1	-125.50	-140.3	-23.0	68.2	56.0	12.17	5.603		
3,300.0	3,294.6	3,300.1	3,295.7	6.5	6.3	-125.02	-146.1	-24.4	70.1	57.6	12.57	5.579		
3,400.0	3,394.4	3,400.1	3,395.5	6.7	6.5	-124.57	-151.9	-25.8	72.1	59.1	12.97	5.557		
3,500.0	3,494.2	3,500.0	3,495.3	7.0	6.7	-124.14	-157.6	-27.1	74.1	60.7	13.38	5.536		
3,600.0	3,594.0	3,600.0	3,595.1	7.2	6.9	-123.73	-163.4	-28.5	76.0	62.2	13.78	5.516		
3,700.0	3,693.8	3,700.0	3,694.9	7.4	7.1	-123.34	-169.2	-29.9	78.0	63.8	14.19	5.498		
3,800.0	3,793.6	3,800.0	3,794.7	7.6	7.3	-122.98	-175.0	-31.2	80.0	65.4	14.59	5.481		
3,900.0	3,893.4	3,900.0	3,894.5	7.8	7.5	-122.63	-180.7	-32.6	82.0	67.0	15.00	5.465		
4,000.0	3,993.2	3,999.9	3,994.3	8.0	7.7	-122.30	-186.5	-33.9	84.0	68.5	15.40	5.450		
4,100.0	4,093.0	4,099.9	4,094.1	8.2	7.9	-121.98	-192.3	-35.3	85.9	70.1	15.81	5.436		
4,200.0	4,192.8	4,199.9	4,193.9	8.4	8.1	-121.68	-198.1	-36.7	87.9	71.7	16.21	5.423		
4,300.0	4,292.6	4,299.9	4,293.8	8.6	8.3	-121.39	-203.8	-38.0	89.9	73.3	16.62	5.411		
4,400.0	4,392.4	4,399.8	4,393.6	8.8	8.6	-121.11	-209.6	-39.4	91.9	74.9	17.02	5.399		
4,500.0	4,492.2	4,499.8	4,493.4	9.0	8.8	-120.84	-215.4	-40.8	93.9	76.5	17.43	5.388		
4,600.0	4,592.0	4,599.8	4,593.2	9.2	9.0	-120.59	-221.2	-42.1	95.9	78.1	17.84	5.378		
4,700.0	4,691.8	4,699.8	4,693.0	9.4	9.2	-120.35	-226.9	-43.5	97.9	79.7	18.24	5.368		
4,800.0	4,791.6	4,799.8	4,792.8	9.6	9.4	-120.11	-232.7	-44.8	99.9	81.3	18.65	5.358		
4,900.0	4,891.4	4,899.7	4,892.6	9.8	9.6	-119.89	-238.5	-46.2	101.9	82.9	19.05	5.350		
5,000.0	4,991.2	4,999.7	4,992.4	10.0	9.8	-119.67	-244.2	-47.6	103.9	84.5	19.46	5.341		
5,100.0	5,091.0	5,099.7	5,092.2	10.2	10.0	-119.46	-250.0	-48.9	105.9	86.1	19.86	5.333		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,190.8	5,199.7	5,192.0	10.4	10.2	-119.26	-255.8	-50.3	107.9	87.7	20.27	5.325		
5,300.0	5,290.6	5,299.7	5,291.8	10.7	10.4	-119.07	-261.6	-51.7	109.9	89.3	20.67	5.318		
5,400.0	5,390.4	5,399.6	5,391.6	10.9	10.6	-118.89	-267.3	-53.0	112.0	90.9	21.08	5.311		
5,500.0	5,490.2	5,499.6	5,491.4	11.1	10.8	-118.71	-273.1	-54.4	114.0	92.5	21.49	5.304		
5,600.0	5,590.0	5,599.6	5,591.2	11.3	11.0	-118.53	-278.9	-55.7	116.0	94.1	21.89	5.298		
5,700.0	5,689.9	5,699.6	5,691.0	11.5	11.2	-118.37	-284.7	-57.1	118.0	95.7	22.30	5.292		
5,800.0	5,789.7	5,799.6	5,790.8	11.7	11.4	-118.20	-290.4	-58.5	120.0	97.3	22.70	5.286		
5,900.0	5,889.5	5,899.5	5,890.6	11.9	11.6	-118.05	-296.2	-59.8	122.0	98.9	23.11	5.280		
6,000.0	5,989.3	5,999.5	5,990.4	12.1	11.8	-117.90	-302.0	-61.2	124.0	100.5	23.51	5.275		
6,100.0	6,089.1	6,099.5	6,090.2	12.3	12.0	-117.75	-307.8	-62.6	126.1	102.1	23.92	5.270		
6,200.0	6,188.9	6,199.5	6,190.0	12.5	12.2	-117.61	-313.5	-63.9	128.1	103.7	24.33	5.265		
6,300.0	6,288.7	6,299.5	6,289.8	12.7	12.4	-117.47	-319.3	-65.3	130.1	105.4	24.73	5.260		
6,400.0	6,388.5	6,399.4	6,389.6	12.9	12.6	-117.34	-325.1	-66.6	132.1	107.0	25.14	5.256		
6,500.0	6,488.3	6,499.4	6,489.4	13.1	12.8	-117.21	-330.8	-68.0	134.1	108.6	25.54	5.251		
6,600.0	6,588.1	6,599.4	6,589.2	13.3	13.0	-117.08	-336.6	-69.4	136.2	110.2	25.95	5.247		
6,700.0	6,687.9	6,699.4	6,689.0	13.5	13.2	-116.96	-342.4	-70.7	138.2	111.8	26.36	5.243		
6,800.0	6,787.7	6,799.8	6,789.3	13.7	13.4	-116.99	-347.8	-72.1	140.2	113.4	26.75	5.240		
6,900.0	6,887.5	6,900.2	6,889.4	13.9	13.5	-121.85	-341.3	-73.4	141.6	114.8	26.84	5.277		
7,000.0	6,987.3	6,993.9	6,980.4	14.2	13.4	-135.23	-319.5	-74.4	146.4	119.9	26.52	5.521		
7,100.0	7,087.0	7,080.8	7,060.5	14.3	13.3	83.66	-286.3	-75.3	158.8	132.9	25.95	6.121		
7,200.0	7,184.6	7,163.9	7,131.8	14.3	13.2	65.59	-243.6	-75.9	176.1	150.7	25.39	6.934		
7,300.0	7,276.9	7,244.2	7,194.0	14.2	13.1	56.03	-192.9	-76.4	195.3	170.5	24.81	7.875		
7,400.0	7,361.3	7,322.1	7,247.0	14.0	13.0	49.63	-135.9	-76.7	214.4	190.3	24.11	8.892		
7,500.0	7,435.1	7,400.0	7,291.8	13.9	13.0	45.13	-72.3	-76.8	231.9	208.6	23.32	9.943		
7,600.0	7,496.2	7,473.2	7,325.7	13.9	13.1	42.11	-7.5	-76.8	246.8	224.2	22.54	10.946		
7,700.0	7,542.6	7,550.0	7,352.1	14.1	13.3	40.07	64.6	-76.7	258.4	236.5	21.93	11.785		
7,800.0	7,573.0	7,620.3	7,367.6	14.4	13.6	38.94	133.1	-76.4	266.5	244.8	21.64	12.312		
7,900.0	7,586.4	7,693.1	7,374.7	14.9	14.1	38.54	205.6	-76.0	270.6	248.8	21.83	12.398		
8,000.0	7,587.0	7,785.9	7,375.0	15.6	14.8	38.76	298.3	-75.3	271.9	249.1	22.78	11.935		
8,100.0	7,587.0	7,885.8	7,375.0	16.5	15.7	39.04	398.3	-74.6	273.0	248.9	24.03	11.360		
8,200.0	7,587.0	7,985.8	7,375.0	17.5	16.7	39.33	498.3	-73.9	274.1	248.6	25.43	10.776		
8,300.0	7,587.0	8,085.8	7,375.0	18.6	17.8	39.61	598.2	-73.2	275.2	248.2	26.97	10.202		
8,400.0	7,587.0	8,185.8	7,375.0	19.8	19.1	39.89	698.2	-72.5	276.3	247.7	28.63	9.650		
8,500.0	7,587.0	8,285.8	7,375.0	21.1	20.4	40.16	798.2	-71.9	277.4	247.0	30.40	9.126		
8,600.0	7,587.0	8,385.8	7,375.0	22.4	21.8	40.44	898.2	-71.2	278.6	246.3	32.26	8.635		
8,700.0	7,587.0	8,485.8	7,375.0	23.8	23.2	40.71	998.2	-70.5	279.7	245.5	34.20	8.178		
8,800.0	7,587.0	8,585.7	7,375.0	25.3	24.7	40.98	1,098.1	-69.8	280.8	244.6	36.22	7.754		
8,900.0	7,587.0	8,685.7	7,375.0	26.8	26.2	41.25	1,198.1	-69.1	282.0	243.7	38.30	7.362		
9,000.0	7,587.0	8,785.7	7,375.0	28.3	27.7	41.51	1,298.1	-68.4	283.1	242.7	40.45	7.000		
9,100.0	7,587.0	8,885.7	7,375.0	29.8	29.3	41.78	1,398.1	-67.7	284.3	241.7	42.64	6.667		
9,200.0	7,587.0	8,985.7	7,375.0	31.4	30.9	42.04	1,498.1	-67.0	285.5	240.6	44.89	6.359		
9,300.0	7,587.0	9,085.7	7,375.0	32.9	32.4	42.30	1,598.1	-66.3	286.6	239.4	47.19	6.074		
9,400.0	7,587.0	9,185.7	7,375.0	34.5	34.1	42.55	1,698.0	-65.6	287.8	238.3	49.52	5.812		
9,500.0	7,587.0	9,282.1	7,375.0	36.2	35.6	42.89	1,794.4	-64.3	289.4	237.5	51.92	5.575		
9,600.0	7,587.0	9,380.0	7,375.0	37.8	37.2	43.50	1,892.4	-61.0	292.4	237.8	54.60	5.356		
9,700.0	7,587.0	9,479.9	7,375.0	39.4	38.9	44.14	1,992.2	-57.5	295.6	238.2	57.38	5.151		
9,800.0	7,587.0	9,579.8	7,375.0	41.1	40.5	44.77	2,092.0	-54.1	298.7	238.5	60.22	4.961		
9,900.0	7,587.0	9,679.7	7,375.0	42.7	42.2	45.38	2,191.9	-50.6	302.0	238.9	63.10	4.786		
10,000.0	7,587.0	9,779.6	7,375.0	44.4	43.9	45.97	2,291.7	-47.1	305.2	239.2	66.02	4.623		
10,100.0	7,587.0	9,879.5	7,375.0	46.0	45.5	46.56	2,391.5	-43.6	308.5	239.5	68.99	4.471		
10,200.0	7,587.0	9,979.4	7,375.0	47.7	47.2	47.13	2,491.4	-40.1	311.8	239.8	72.00	4.331		
10,300.0	7,587.0	10,079.3	7,375.0	49.4	48.9	47.69	2,591.2	-36.6	315.1	240.1	75.04	4.199		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,587.0	10,183.2	7,375.0	51.1	50.7	48.20	2,695.0	-33.5	318.1	240.0	78.13	4.072		
10,500.0	7,587.0	10,287.5	7,375.0	52.8	52.4	48.41	2,799.3	-32.9	319.4	238.4	80.93	3.946		
10,600.0	7,587.0	10,387.5	7,375.0	54.5	54.1	48.53	2,899.3	-32.9	320.1	236.5	83.61	3.829		
10,700.0	7,587.0	10,490.7	7,375.0	56.2	55.9	48.63	3,002.5	-33.2	320.8	234.4	86.32	3.716		
10,800.0	7,587.0	10,591.9	7,375.0	57.9	57.6	48.54	3,103.7	-35.0	320.2	231.4	88.79	3.606		
10,900.0	7,587.0	10,691.9	7,375.0	59.6	59.3	48.45	3,203.7	-36.8	319.6	228.4	91.24	3.503		
11,000.0	7,587.0	10,791.9	7,375.0	61.3	61.0	48.35	3,303.7	-38.6	319.0	225.3	93.69	3.405		
11,100.0	7,587.0	10,891.9	7,375.0	63.0	62.8	48.26	3,403.6	-40.4	318.4	222.3	96.13	3.313		
11,200.0	7,587.0	10,991.9	7,375.0	64.7	64.5	48.17	3,503.6	-42.3	317.9	219.3	98.56	3.225		
11,300.0	7,587.0	11,091.9	7,375.0	66.4	66.2	48.07	3,603.6	-44.1	317.3	216.3	100.99	3.142		
11,400.0	7,587.0	11,191.9	7,375.0	68.1	67.9	47.98	3,703.6	-45.9	316.7	213.3	103.42	3.062		
11,500.0	7,587.0	11,291.8	7,375.0	69.8	69.6	47.89	3,803.6	-47.7	316.1	210.3	105.84	2.987		
11,600.0	7,587.0	11,391.8	7,375.0	71.6	71.4	47.79	3,903.5	-49.6	315.6	207.3	108.26	2.915		
11,700.0	7,587.0	11,491.8	7,375.0	73.3	73.1	47.70	4,003.5	-51.4	315.0	204.3	110.67	2.846		
11,800.0	7,587.0	11,591.8	7,375.0	75.0	74.8	47.60	4,103.5	-53.2	314.4	201.3	113.07	2.781		
11,900.0	7,587.0	11,691.8	7,375.0	76.7	76.5	47.50	4,203.5	-55.0	313.8	198.4	115.47	2.718		
12,000.0	7,587.0	11,791.8	7,375.0	78.5	78.3	47.41	4,303.5	-56.9	313.3	195.4	117.86	2.658		
12,100.0	7,587.0	11,891.8	7,375.0	80.2	80.0	47.31	4,403.4	-58.7	312.7	192.4	120.24	2.600		
12,200.0	7,587.0	11,991.8	7,375.0	81.9	81.7	47.21	4,503.4	-60.5	312.1	189.5	122.62	2.545		
12,300.0	7,587.0	12,091.8	7,375.0	83.6	83.5	47.12	4,603.4	-62.3	311.5	186.6	124.99	2.493		
12,400.0	7,587.0	12,191.8	7,375.0	85.4	85.2	47.02	4,703.4	-64.2	311.0	183.6	127.35	2.442		
12,500.0	7,587.0	12,291.8	7,375.0	87.1	86.9	46.92	4,803.4	-66.0	310.4	180.7	129.71	2.393		
12,600.0	7,587.0	12,391.8	7,375.0	88.8	88.7	46.82	4,903.3	-67.8	309.8	177.8	132.06	2.346		
12,700.0	7,587.0	12,491.8	7,375.0	90.6	90.4	46.73	5,003.3	-69.6	309.3	174.9	134.40	2.301		
12,800.0	7,587.0	12,591.8	7,375.0	92.3	92.1	46.63	5,103.3	-71.5	308.7	172.0	136.73	2.258		
12,900.0	7,587.0	12,691.8	7,375.0	94.0	93.9	46.53	5,203.3	-73.3	308.1	169.1	139.05	2.216		
13,000.0	7,587.0	12,791.8	7,375.0	95.8	95.6	46.43	5,303.3	-75.1	307.6	166.2	141.37	2.176		
13,100.0	7,587.0	12,891.8	7,375.0	97.5	97.4	46.33	5,403.3	-76.9	307.0	163.3	143.67	2.137		
13,200.0	7,587.0	12,991.8	7,375.0	99.2	99.1	46.23	5,503.2	-78.8	306.4	160.5	145.97	2.099		
13,300.0	7,587.0	13,091.8	7,375.0	101.0	100.8	46.13	5,603.2	-80.6	305.9	157.6	148.26	2.063		
13,400.0	7,587.0	13,191.8	7,375.0	102.7	102.6	46.02	5,703.2	-82.4	305.3	154.8	150.54	2.028		
13,500.0	7,587.0	13,291.8	7,375.0	104.5	104.3	45.92	5,803.2	-84.2	304.8	152.0	152.82	1.994		
13,600.0	7,587.0	13,391.8	7,375.0	106.2	106.1	45.82	5,903.2	-86.1	304.2	149.1	155.08	1.962		
13,700.0	7,587.0	13,491.8	7,375.0	107.9	107.8	45.72	6,003.1	-87.9	303.7	146.3	157.34	1.930		
13,800.0	7,587.0	13,591.8	7,375.0	109.7	109.5	45.62	6,103.1	-89.7	303.1	143.5	159.58	1.899		
13,900.0	7,587.0	13,691.8	7,375.0	111.4	111.3	45.51	6,203.1	-91.5	302.5	140.7	161.82	1.870		
14,000.0	7,587.0	13,791.8	7,375.0	113.2	113.0	45.41	6,303.1	-93.4	302.0	137.9	164.04	1.841		
14,100.0	7,587.0	13,891.8	7,375.0	114.9	114.8	45.31	6,403.1	-95.2	301.4	135.2	166.26	1.813		
14,200.0	7,587.0	13,991.8	7,375.0	116.6	116.5	45.20	6,503.0	-97.0	300.9	132.4	168.47	1.786		
14,300.0	7,587.0	14,091.8	7,375.0	118.4	118.3	45.10	6,603.0	-98.8	300.3	129.7	170.66	1.760		
14,400.0	7,587.0	14,191.8	7,375.0	120.1	120.0	44.99	6,703.0	-100.7	299.8	126.9	172.85	1.734		
14,500.0	7,587.0	14,291.8	7,375.0	121.9	121.7	44.89	6,803.0	-102.5	299.2	124.2	175.03	1.710		
14,600.0	7,587.0	14,391.8	7,375.0	123.6	123.5	44.78	6,903.0	-104.3	298.7	121.5	177.20	1.686		
14,700.0	7,587.0	14,491.8	7,375.0	125.3	125.2	44.68	7,002.9	-106.1	298.1	118.8	179.36	1.662		
14,800.0	7,587.0	14,591.7	7,375.0	127.1	127.0	44.57	7,102.9	-108.0	297.6	116.1	181.50	1.640		
14,900.0	7,587.0	14,691.7	7,375.0	128.8	128.7	44.46	7,202.9	-109.8	297.0	113.4	183.64	1.618		
15,000.0	7,587.0	14,791.7	7,375.0	130.6	130.5	44.35	7,302.9	-111.6	296.5	110.7	185.77	1.596		
15,100.0	7,587.0	14,891.7	7,375.0	132.3	132.2	44.25	7,402.9	-113.4	296.0	108.1	187.88	1.575		
15,200.0	7,587.0	14,991.7	7,375.0	134.1	134.0	44.14	7,502.8	-115.3	295.4	105.4	189.99	1.555		
15,300.0	7,587.0	15,091.7	7,375.0	135.8	135.7	44.03	7,602.8	-117.1	294.9	102.8	192.08	1.535		
15,304.6	7,587.0	15,094.7	7,375.0	135.9	135.8	44.03	7,605.8	-117.1	294.8	102.7	192.16	1.534		
15,307.1	7,587.0	15,094.7	7,375.0	135.9	135.8	44.03	7,605.8	-117.1	294.9	102.7	192.19	1.534 SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	9.0	9.0	0.0	0.0	89.99	0.0	20.1	20.1					
100.0	100.0	109.0	109.0	0.2	0.1	89.99	0.0	20.1	20.1	19.8	0.30	67.469		
200.0	200.0	209.0	209.0	0.3	0.3	89.99	0.0	20.1	20.1	19.5	0.65	31.098		
300.0	300.0	309.0	309.0	0.5	0.5	89.99	0.0	20.1	20.1	19.1	1.00	20.205 CC, ES		
400.0	400.0	409.0	409.0	0.7	0.7	-124.35	0.0	20.1	20.6	19.3	1.35	15.316		
500.0	500.0	509.0	509.0	0.9	0.8	-129.91	0.0	20.1	22.2	20.5	1.70	13.079		
600.0	599.9	608.9	608.9	1.0	1.0	-135.18	-1.0	20.3	25.1	23.1	2.05	12.254		
700.0	699.7	708.8	708.8	1.2	1.2	-137.97	-3.7	20.8	29.3	26.8	2.41	12.130		
800.0	799.5	808.8	808.7	1.4	1.4	-137.47	-8.2	21.5	33.4	30.7	2.78	12.025		
900.0	899.3	908.7	908.4	1.6	1.6	-135.73	-13.5	22.4	37.6	34.4	3.16	11.898		
1,000.0	999.1	1,008.6	1,008.2	1.8	1.8	-134.33	-18.8	23.3	41.7	38.2	3.54	11.792		
1,100.0	1,098.9	1,108.5	1,108.0	2.0	2.0	-133.19	-24.2	24.3	45.9	41.9	3.92	11.702		
1,200.0	1,198.7	1,208.4	1,207.7	2.2	2.1	-132.24	-29.5	25.2	50.0	45.7	4.30	11.627		
1,300.0	1,298.5	1,308.4	1,307.5	2.4	2.3	-131.43	-34.8	26.1	54.2	49.5	4.69	11.562		
1,400.0	1,398.3	1,408.3	1,407.2	2.6	2.5	-130.74	-40.1	27.0	58.4	53.4	5.08	11.506		
1,500.0	1,498.1	1,508.2	1,507.0	2.8	2.7	-130.15	-45.4	27.9	62.7	57.2	5.47	11.457		
1,600.0	1,597.9	1,608.1	1,606.8	3.1	2.9	-129.63	-50.8	28.8	66.9	61.0	5.86	11.414		
1,700.0	1,697.7	1,708.0	1,706.5	3.3	3.1	-129.17	-56.1	29.7	71.1	64.8	6.25	11.376		
1,800.0	1,797.5	1,807.9	1,806.3	3.5	3.3	-128.76	-61.4	30.6	75.3	68.7	6.64	11.342		
1,900.0	1,897.3	1,907.8	1,906.1	3.7	3.5	-128.39	-66.7	31.5	79.5	72.5	7.03	11.311		
2,000.0	1,997.1	2,007.7	2,005.8	3.9	3.7	-128.07	-72.0	32.4	83.8	76.3	7.42	11.284		
2,100.0	2,096.9	2,107.6	2,105.6	4.1	3.9	-127.77	-77.4	33.3	88.0	80.2	7.82	11.259		
2,200.0	2,196.7	2,207.5	2,205.4	4.3	4.1	-127.50	-82.7	34.2	92.2	84.0	8.21	11.237		
2,300.0	2,296.5	2,307.5	2,305.1	4.5	4.3	-127.25	-88.0	35.1	96.5	87.9	8.60	11.216		
2,400.0	2,396.3	2,407.4	2,404.9	4.7	4.5	-127.03	-93.3	36.1	100.7	91.7	8.99	11.197		
2,500.0	2,496.1	2,507.3	2,504.6	4.9	4.7	-126.82	-98.6	37.0	105.0	95.6	9.39	11.180		
2,600.0	2,595.9	2,607.2	2,604.4	5.1	4.9	-126.63	-104.0	37.9	109.2	99.4	9.78	11.164		
2,700.0	2,695.8	2,707.1	2,704.2	5.3	5.1	-126.45	-109.3	38.8	113.4	103.3	10.17	11.149		
2,800.0	2,795.6	2,807.0	2,803.9	5.5	5.3	-126.29	-114.6	39.7	117.7	107.1	10.57	11.135		
2,900.0	2,895.4	2,906.9	2,903.7	5.7	5.5	-126.14	-119.9	40.6	121.9	111.0	10.96	11.123		
3,000.0	2,995.2	3,006.8	3,003.5	5.9	5.7	-126.00	-125.2	41.5	126.2	114.8	11.36	11.111		
3,100.0	3,095.0	3,106.7	3,103.2	6.1	5.9	-125.86	-130.6	42.4	130.4	118.7	11.75	11.100		
3,200.0	3,194.8	3,206.6	3,203.0	6.3	6.1	-125.74	-135.9	43.3	134.7	122.5	12.14	11.089		
3,300.0	3,294.6	3,306.5	3,302.8	6.5	6.3	-125.62	-141.2	44.2	138.9	126.4	12.54	11.079		
3,400.0	3,394.4	3,406.5	3,402.5	6.7	6.5	-125.51	-146.5	45.1	143.2	130.2	12.93	11.070		
3,500.0	3,494.2	3,506.4	3,502.3	7.0	6.7	-125.41	-151.8	46.0	147.4	134.1	13.33	11.061		
3,600.0	3,594.0	3,606.3	3,602.0	7.2	6.9	-125.31	-157.2	46.9	151.7	137.9	13.72	11.053		
3,700.0	3,693.8	3,706.2	3,701.8	7.4	7.1	-125.22	-162.5	47.8	155.9	141.8	14.11	11.045		
3,800.0	3,793.6	3,806.1	3,801.6	7.6	7.3	-125.13	-167.8	48.8	160.2	145.6	14.51	11.038		
3,900.0	3,893.4	3,906.0	3,901.3	7.8	7.5	-125.05	-173.1	49.7	164.4	149.5	14.90	11.031		
4,000.0	3,993.2	4,005.9	4,001.1	8.0	7.7	-124.97	-178.4	50.6	168.7	153.4	15.30	11.025		
4,100.0	4,093.0	4,105.8	4,100.9	8.2	7.9	-124.89	-183.8	51.5	172.9	157.2	15.69	11.018		
4,200.0	4,192.8	4,205.7	4,200.6	8.4	8.0	-124.82	-189.1	52.4	177.2	161.1	16.09	11.012		
4,300.0	4,292.6	4,305.6	4,300.4	8.6	8.2	-124.76	-194.4	53.3	181.4	164.9	16.48	11.007		
4,400.0	4,392.4	4,405.5	4,400.1	8.8	8.4	-124.69	-199.7	54.2	185.7	168.8	16.88	11.001		
4,500.0	4,492.2	4,505.5	4,499.9	9.0	8.6	-124.63	-205.0	55.1	189.9	172.6	17.27	10.996		
4,600.0	4,592.0	4,605.4	4,599.7	9.2	8.8	-124.57	-210.4	56.0	194.2	176.5	17.67	10.991		
4,700.0	4,691.8	4,705.3	4,699.4	9.4	9.0	-124.51	-215.7	56.9	198.4	180.4	18.06	10.986		
4,800.0	4,791.6	4,805.2	4,799.2	9.6	9.2	-124.46	-221.0	57.8	202.7	184.2	18.45	10.982		
4,900.0	4,891.4	4,905.1	4,899.0	9.8	9.4	-124.41	-226.3	58.7	206.9	188.1	18.85	10.977		
5,000.0	4,991.2	5,005.0	4,998.7	10.0	9.6	-124.36	-231.6	59.6	211.2	191.9	19.24	10.973		
5,100.0	5,091.0	5,104.9	5,098.5	10.2	9.8	-124.31	-237.0	60.5	215.4	195.8	19.64	10.969		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,190.8	5,204.8	5,198.3	10.4	10.0	-124.26	-242.3	61.5	219.7	199.6	20.03	10.965		
5,300.0	5,290.6	5,304.7	5,298.0	10.7	10.2	-124.22	-247.6	62.4	223.9	203.5	20.43	10.962		
5,400.0	5,390.4	5,404.6	5,397.8	10.9	10.4	-124.17	-252.9	63.3	228.2	207.4	20.82	10.958		
5,500.0	5,490.2	5,504.6	5,497.5	11.1	10.6	-124.13	-258.2	64.2	232.4	211.2	21.22	10.955		
5,600.0	5,590.0	5,604.5	5,597.3	11.3	10.8	-124.09	-263.6	65.1	236.7	215.1	21.61	10.951		
5,700.0	5,689.9	5,704.4	5,697.1	11.5	11.0	-124.06	-268.9	66.0	240.9	218.9	22.01	10.948		
5,800.0	5,789.7	5,804.3	5,796.8	11.7	11.2	-124.02	-274.2	66.9	245.2	222.8	22.40	10.945		
5,900.0	5,889.5	5,904.2	5,896.6	11.9	11.4	-123.98	-279.5	67.8	249.4	226.7	22.80	10.942		
6,000.0	5,989.3	6,004.1	5,996.4	12.1	11.6	-123.95	-284.8	68.7	253.7	230.5	23.19	10.939		
6,100.0	6,089.1	6,104.0	6,096.1	12.3	11.8	-123.91	-290.2	69.6	258.0	234.4	23.59	10.936		
6,200.0	6,188.9	6,203.9	6,195.9	12.5	12.0	-123.88	-295.5	70.5	262.2	238.2	23.98	10.934		
6,300.0	6,288.7	6,303.8	6,295.7	12.7	12.2	-123.85	-300.8	71.4	266.5	242.1	24.38	10.931		
6,400.0	6,388.5	6,403.7	6,395.4	12.9	12.4	-123.82	-306.1	72.3	270.7	245.9	24.77	10.929		
6,500.0	6,488.3	6,503.6	6,495.2	13.1	12.6	-123.79	-311.4	73.2	275.0	249.8	25.17	10.926		
6,600.0	6,588.1	6,603.6	6,594.9	13.3	12.8	-123.76	-316.8	74.2	279.2	253.7	25.56	10.924		
6,700.0	6,687.9	6,703.5	6,694.7	13.5	13.0	-123.74	-322.1	75.1	283.5	257.5	25.96	10.922		
6,800.0	6,787.7	6,803.4	6,794.5	13.7	13.2	-123.71	-327.4	76.0	287.7	261.4	26.35	10.919		
6,900.0	6,887.5	6,903.3	6,894.2	13.9	13.4	-123.68	-332.7	76.9	292.0	265.2	26.75	10.917		
7,000.0	6,987.3	7,002.9	6,993.7	14.2	13.6	-126.63	-337.5	77.8	296.3	269.1	27.13	10.921		
7,100.0	7,087.0	7,101.0	7,091.4	14.3	13.7	103.10	-330.0	78.7	300.7	273.5	27.26	11.030		
7,200.0	7,184.6	7,198.6	7,185.9	14.3	13.6	93.58	-306.2	79.5	305.3	278.1	27.18	11.231		
7,300.0	7,276.9	7,295.7	7,274.6	14.2	13.5	90.37	-266.9	80.3	309.8	282.9	26.95	11.494		
7,400.0	7,361.3	7,392.4	7,355.0	14.0	13.4	88.55	-213.5	81.1	314.2	287.5	26.68	11.776		
7,500.0	7,435.1	7,488.8	7,425.2	13.9	13.3	87.35	-147.5	81.7	318.1	291.7	26.47	12.017		
7,600.0	7,496.2	7,585.0	7,483.2	13.9	13.3	86.54	-70.9	82.2	321.7	295.2	26.47	12.154		
7,700.0	7,542.6	7,681.1	7,527.6	14.1	13.4	86.03	14.2	82.6	324.6	297.9	26.76	12.130		
7,800.0	7,573.0	7,777.3	7,557.1	14.4	13.8	85.78	105.6	82.9	326.9	299.5	27.43	11.916		
7,900.0	7,586.4	7,873.6	7,571.0	14.9	14.3	85.76	200.8	83.0	328.4	299.9	28.50	11.525		
8,000.0	7,587.0	7,972.3	7,572.0	15.6	15.0	85.82	299.5	83.0	329.5	299.5	29.96	10.997		
8,100.0	7,587.0	8,072.3	7,572.0	16.5	15.9	85.84	399.5	83.0	330.5	298.8	31.74	10.412		
8,200.0	7,587.0	8,172.3	7,572.0	17.5	16.9	85.85	499.5	83.0	331.6	297.8	33.80	9.811		
8,300.0	7,587.0	8,272.2	7,572.0	18.6	18.1	85.86	599.5	83.0	332.6	296.5	36.07	9.221		
8,400.0	7,587.0	8,372.2	7,572.0	19.8	19.3	85.87	699.5	83.0	333.7	295.1	38.53	8.659		
8,500.0	7,587.0	8,472.2	7,572.0	21.1	20.6	85.89	799.5	83.0	334.7	293.6	41.14	8.135		
8,600.0	7,587.0	8,572.2	7,572.0	22.4	22.0	85.90	899.4	83.0	335.7	291.9	43.88	7.652		
8,700.0	7,587.0	8,672.2	7,572.0	23.8	23.4	85.91	999.4	83.0	336.8	290.1	46.71	7.210		
8,800.0	7,587.0	8,772.2	7,572.0	25.3	24.9	85.93	1,099.4	83.0	337.8	288.2	49.64	6.806		
8,900.0	7,587.0	8,872.2	7,572.0	26.8	26.4	85.94	1,199.4	83.0	338.9	286.3	52.63	6.439		
9,000.0	7,587.0	8,972.2	7,572.0	28.3	27.9	85.95	1,299.4	83.0	339.9	284.2	55.68	6.105		
9,100.0	7,587.0	9,072.2	7,572.0	29.8	29.4	85.96	1,399.4	83.0	341.0	282.2	58.78	5.801		
9,200.0	7,587.0	9,172.2	7,572.0	31.4	31.0	85.98	1,499.4	83.0	342.0	280.1	61.93	5.523		
9,300.0	7,587.0	9,272.2	7,572.0	32.9	32.6	85.99	1,599.4	83.0	343.1	278.0	65.11	5.269		
9,400.0	7,587.0	9,372.2	7,572.0	34.5	34.2	86.00	1,699.4	83.0	344.1	275.8	68.32	5.037		
9,500.0	7,587.0	9,472.2	7,572.0	36.2	35.8	86.01	1,799.4	83.0	345.1	273.6	71.56	4.823		
9,600.0	7,587.0	9,572.2	7,572.0	37.8	37.5	86.02	1,899.4	83.0	346.2	271.4	74.82	4.627		
9,700.0	7,587.0	9,672.2	7,572.0	39.4	39.1	86.04	1,999.4	83.0	347.2	269.1	78.11	4.446		
9,800.0	7,587.0	9,772.2	7,572.0	41.1	40.8	86.05	2,099.4	83.0	348.3	266.9	81.41	4.278		
9,900.0	7,587.0	9,872.2	7,572.0	42.7	42.4	86.06	2,199.4	83.0	349.3	264.6	84.73	4.123		
10,000.0	7,587.0	9,972.2	7,572.0	44.4	44.1	86.07	2,299.4	83.0	350.4	262.3	88.06	3.979		
10,100.0	7,587.0	10,072.1	7,572.0	46.0	45.8	86.08	2,399.4	83.0	351.4	260.0	91.40	3.845		
10,200.0	7,587.0	10,172.1	7,572.0	47.7	47.5	86.10	2,499.4	83.0	352.5	257.7	94.76	3.720		
10,300.0	7,587.0	10,272.1	7,572.0	49.4	49.1	86.11	2,599.4	83.0	353.5	255.4	98.13	3.603		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
10,400.0	7,587.0	10,372.1	7,572.0	51.1	50.8	86.12	2,699.3	83.0	354.5	253.0	101.50	3.493		
10,500.0	7,587.0	10,472.1	7,572.0	52.8	52.5	86.13	2,799.3	83.0	355.6	250.7	104.89	3.390		
10,600.0	7,587.0	10,572.1	7,572.0	54.5	54.2	86.14	2,899.3	83.0	356.6	248.4	108.28	3.294		
10,700.0	7,587.0	10,672.1	7,572.0	56.2	55.9	86.15	2,999.3	83.0	357.7	246.0	111.67	3.203		
10,800.0	7,587.0	10,772.1	7,572.0	57.9	57.6	86.16	3,099.3	83.0	358.7	243.6	115.08	3.117		
10,900.0	7,587.0	10,872.1	7,572.0	59.6	59.3	86.17	3,199.3	83.0	359.8	241.3	118.49	3.036		
11,000.0	7,587.0	10,972.1	7,572.0	61.3	61.1	86.19	3,299.3	83.0	360.8	238.9	121.91	2.960		
11,100.0	7,587.0	11,072.1	7,572.0	63.0	62.8	86.20	3,399.3	83.0	361.9	236.5	125.33	2.887		
11,200.0	7,587.0	11,172.1	7,572.0	64.7	64.5	86.21	3,499.3	83.0	362.9	234.2	128.75	2.819		
11,300.0	7,587.0	11,272.1	7,572.0	66.4	66.2	86.22	3,599.3	83.0	364.0	231.8	132.18	2.753		
11,400.0	7,587.0	11,372.1	7,572.0	68.1	67.9	86.23	3,699.3	83.0	365.0	229.4	135.61	2.691		
11,500.0	7,587.0	11,472.1	7,572.0	69.8	69.6	86.24	3,799.3	83.0	366.0	227.0	139.05	2.632		
11,600.0	7,587.0	11,572.1	7,572.0	71.6	71.4	86.25	3,899.3	83.0	367.1	224.6	142.49	2.576		
11,700.0	7,587.0	11,672.1	7,572.0	73.3	73.1	86.26	3,999.3	83.0	368.1	222.2	145.93	2.523		
11,800.0	7,587.0	11,772.1	7,572.0	75.0	74.8	86.27	4,099.3	83.0	369.2	219.8	149.38	2.471		
11,900.0	7,587.0	11,872.1	7,572.0	76.7	76.5	86.28	4,199.3	83.0	370.2	217.4	152.82	2.423		
12,000.0	7,587.0	11,972.0	7,572.0	78.5	78.3	86.29	4,299.3	83.0	371.3	215.0	156.28	2.376		
12,100.0	7,587.0	12,072.0	7,572.0	80.2	80.0	86.30	4,399.3	83.0	372.3	212.6	159.73	2.331		
12,200.0	7,587.0	12,172.0	7,572.0	81.9	81.7	86.31	4,499.2	83.0	373.4	210.2	163.18	2.288		
12,300.0	7,587.0	12,272.0	7,572.0	83.6	83.5	86.32	4,599.2	83.0	374.4	207.8	166.64	2.247		
12,400.0	7,587.0	12,372.0	7,572.0	85.4	85.2	86.33	4,699.2	83.0	375.4	205.3	170.10	2.207		
12,500.0	7,587.0	12,472.0	7,572.0	87.1	86.9	86.34	4,799.2	83.0	376.5	202.9	173.56	2.169		
12,600.0	7,587.0	12,572.0	7,572.0	88.8	88.7	86.36	4,899.2	83.0	377.5	200.5	177.02	2.133		
12,700.0	7,587.0	12,672.0	7,572.0	90.6	90.4	86.37	4,999.2	83.0	378.6	198.1	180.49	2.098		
12,800.0	7,587.0	12,772.0	7,572.0	92.3	92.1	86.38	5,099.2	83.0	379.6	195.7	183.95	2.064		
12,900.0	7,587.0	12,872.0	7,572.0	94.0	93.9	86.39	5,199.2	83.0	380.7	193.2	187.42	2.031		
13,000.0	7,587.0	12,972.0	7,572.0	95.8	95.6	86.40	5,299.2	83.0	381.7	190.8	190.89	2.000		
13,100.0	7,587.0	13,072.0	7,572.0	97.5	97.3	86.40	5,399.2	83.0	382.8	188.4	194.36	1.969		
13,200.0	7,587.0	13,172.0	7,572.0	99.2	99.1	86.41	5,499.2	83.0	383.8	186.0	197.83	1.940		
13,300.0	7,587.0	13,272.0	7,572.0	101.0	100.8	86.42	5,599.2	83.0	384.8	183.5	201.30	1.912		
13,400.0	7,587.0	13,372.0	7,572.0	102.7	102.6	86.43	5,699.2	83.0	385.9	181.1	204.78	1.884		
13,500.0	7,587.0	13,472.0	7,572.0	104.5	104.3	86.44	5,799.2	83.0	386.9	178.7	208.25	1.858		
13,600.0	7,587.0	13,572.0	7,572.0	106.2	106.0	86.45	5,899.2	83.0	388.0	176.3	211.73	1.832		
13,700.0	7,587.0	13,672.0	7,572.0	107.9	107.8	86.46	5,999.2	83.0	389.0	173.8	215.20	1.808		
13,800.0	7,587.0	13,771.9	7,572.0	109.7	109.5	86.47	6,099.2	83.0	390.1	171.4	218.68	1.784		
13,900.0	7,587.0	13,871.9	7,572.0	111.4	111.3	86.48	6,199.2	83.0	391.1	169.0	222.16	1.761		
14,000.0	7,587.0	13,971.9	7,572.0	113.2	113.0	86.49	6,299.1	83.0	392.2	166.5	225.64	1.738		
14,100.0	7,587.0	14,071.9	7,572.0	114.9	114.7	86.50	6,399.1	83.0	393.2	164.1	229.12	1.716		
14,200.0	7,587.0	14,171.9	7,572.0	116.6	116.5	86.51	6,499.1	83.0	394.3	161.7	232.60	1.695		
14,300.0	7,587.0	14,271.9	7,572.0	118.4	118.2	86.52	6,599.1	83.0	395.3	159.2	236.08	1.674		
14,400.0	7,587.0	14,371.9	7,572.0	120.1	120.0	86.53	6,699.1	83.0	396.3	156.8	239.56	1.654		
14,500.0	7,587.0	14,471.9	7,572.0	121.9	121.7	86.54	6,799.1	83.0	397.4	154.3	243.04	1.635		
14,600.0	7,587.0	14,571.9	7,572.0	123.6	123.5	86.55	6,899.1	83.0	398.4	151.9	246.53	1.616		
14,700.0	7,587.0	14,671.9	7,572.0	125.3	125.2	86.56	6,999.1	83.0	399.5	149.5	250.01	1.598		
14,800.0	7,587.0	14,771.9	7,572.0	127.1	126.9	86.56	7,099.1	83.0	400.5	147.0	253.49	1.580		
14,900.0	7,587.0	14,871.9	7,572.0	128.8	128.7	86.57	7,199.1	83.0	401.6	144.6	256.98	1.563		
15,000.0	7,587.0	14,971.9	7,572.0	130.6	130.4	86.58	7,299.1	83.0	402.6	142.2	260.47	1.546		
15,100.0	7,587.0	15,071.9	7,572.0	132.3	132.2	86.59	7,399.1	83.0	403.7	139.7	263.95	1.529		
15,200.0	7,587.0	15,171.9	7,572.0	134.1	133.9	86.60	7,499.1	83.0	404.7	137.3	267.44	1.513		
15,300.0	7,587.0	15,271.9	7,572.0	135.8	135.7	86.61	7,599.1	83.0	405.8	134.8	270.93	1.498 Level 3		
15,307.1	7,587.0	15,278.2	7,572.0	135.9	135.8	86.61	7,605.5	83.0	405.8	134.7	271.16	1.497 Level 3, SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	9.0	9.0	0.0	0.0	90.69	-0.4	29.9	29.9					
100.0	100.0	109.0	109.0	0.2	0.1	90.69	-0.4	29.9	29.9	29.6	0.30	100.274		
200.0	200.0	209.0	209.0	0.3	0.3	90.69	-0.4	29.9	29.9	29.3	0.65	46.218		
263.4	263.4	272.4	272.4	0.4	0.4	90.69	-0.4	29.9	29.9	29.1	0.87	34.449	CC	
300.0	300.0	309.0	309.0	0.5	0.5	90.70	-0.4	29.9	29.9	28.9	1.00	30.034	ES	
400.0	400.0	408.7	408.7	0.7	0.7	-121.40	-1.2	30.5	31.0	29.6	1.35	23.010		
500.0	500.0	508.3	508.2	0.9	0.8	-121.33	-3.5	32.1	33.9	32.2	1.70	19.951		
600.0	599.9	607.8	607.7	1.0	1.0	-121.36	-7.2	34.6	38.8	36.7	2.07	18.787		
700.0	699.7	707.2	706.9	1.2	1.2	-121.33	-12.3	38.1	45.5	43.0	2.44	18.630		
800.0	799.5	807.0	806.4	1.4	1.4	-121.03	-18.0	41.9	52.7	49.9	2.82	18.666		
900.0	899.3	906.7	905.9	1.6	1.6	-120.79	-23.7	45.8	60.0	56.7	3.21	18.674		
1,000.0	999.1	1,006.4	1,005.4	1.8	1.8	-120.61	-29.3	49.7	67.2	63.6	3.60	18.667		
1,100.0	1,098.9	1,106.2	1,104.9	2.0	2.0	-120.46	-35.0	53.6	74.4	70.4	3.99	18.654		
1,200.0	1,198.7	1,205.9	1,204.4	2.2	2.3	-120.34	-40.7	57.4	81.7	77.3	4.38	18.638		
1,300.0	1,298.5	1,305.6	1,303.9	2.4	2.5	-120.24	-46.4	61.3	88.9	84.1	4.77	18.621		
1,400.0	1,398.3	1,405.4	1,403.4	2.6	2.7	-120.16	-52.1	65.2	96.1	91.0	5.17	18.605		
1,500.0	1,498.1	1,505.1	1,502.9	2.8	2.9	-120.08	-57.7	69.0	103.4	97.8	5.56	18.588		
1,600.0	1,597.9	1,604.9	1,602.4	3.1	3.1	-120.02	-63.4	72.9	110.6	104.6	5.95	18.573		
1,700.0	1,697.7	1,704.6	1,701.9	3.3	3.3	-119.96	-69.1	76.8	117.8	111.5	6.35	18.558		
1,800.0	1,797.5	1,804.3	1,801.4	3.5	3.5	-119.91	-74.8	80.7	125.1	118.3	6.74	18.544		
1,900.0	1,897.3	1,904.1	1,900.9	3.7	3.7	-119.87	-80.4	84.5	132.3	125.2	7.14	18.531		
2,000.0	1,997.1	2,003.8	2,000.4	3.9	3.9	-119.83	-86.1	88.4	139.5	132.0	7.54	18.519		
2,100.0	2,096.9	2,103.6	2,099.9	4.1	4.1	-119.79	-91.8	92.3	146.8	138.8	7.93	18.508		
2,200.0	2,196.7	2,203.3	2,199.4	4.3	4.3	-119.76	-97.5	96.1	154.0	145.7	8.33	18.497		
2,300.0	2,296.5	2,303.0	2,298.9	4.5	4.6	-119.73	-103.2	100.0	161.3	152.5	8.72	18.488		
2,400.0	2,396.3	2,402.8	2,398.4	4.7	4.8	-119.70	-108.8	103.9	168.5	159.4	9.12	18.478		
2,500.0	2,496.1	2,502.5	2,497.9	4.9	5.0	-119.68	-114.5	107.8	175.7	166.2	9.51	18.470		
2,600.0	2,595.9	2,602.2	2,597.4	5.1	5.2	-119.65	-120.2	111.6	183.0	173.1	9.91	18.462		
2,700.0	2,695.8	2,702.0	2,696.9	5.3	5.4	-119.63	-125.9	115.5	190.2	179.9	10.31	18.454		
2,800.0	2,795.6	2,801.7	2,796.4	5.5	5.6	-119.61	-131.6	119.4	197.4	186.7	10.70	18.447		
2,900.0	2,895.4	2,901.5	2,895.9	5.7	5.8	-119.60	-137.2	123.2	204.7	193.6	11.10	18.440		
3,000.0	2,995.2	3,001.2	2,995.4	5.9	6.0	-119.58	-142.9	127.1	211.9	200.4	11.50	18.434		
3,100.0	3,095.0	3,100.9	3,094.9	6.1	6.2	-119.56	-148.6	131.0	219.1	207.3	11.89	18.428		
3,200.0	3,194.8	3,200.7	3,194.4	6.3	6.5	-119.55	-154.3	134.9	226.4	214.1	12.29	18.422		
3,300.0	3,294.6	3,300.4	3,293.9	6.5	6.7	-119.53	-160.0	138.7	233.6	220.9	12.69	18.416		
3,400.0	3,394.4	3,400.1	3,393.4	6.7	6.9	-119.52	-165.6	142.6	240.9	227.8	13.08	18.411		
3,500.0	3,494.2	3,499.9	3,492.9	7.0	7.1	-119.51	-171.3	146.5	248.1	234.6	13.48	18.406		
3,600.0	3,594.0	3,599.6	3,592.4	7.2	7.3	-119.50	-177.0	150.3	255.3	241.5	13.88	18.402		
3,700.0	3,693.8	3,699.4	3,691.9	7.4	7.5	-119.49	-182.7	154.2	262.6	248.3	14.27	18.397		
3,800.0	3,793.6	3,799.1	3,791.4	7.6	7.7	-119.48	-188.3	158.1	269.8	255.1	14.67	18.393		
3,900.0	3,893.4	3,898.8	3,890.9	7.8	7.9	-119.47	-194.0	162.0	277.0	262.0	15.07	18.389		
4,000.0	3,993.2	3,998.6	3,990.4	8.0	8.1	-119.46	-199.7	165.8	284.3	268.8	15.46	18.385		
4,100.0	4,093.0	4,098.3	4,089.9	8.2	8.4	-119.45	-205.4	169.7	291.5	275.7	15.86	18.381		
4,200.0	4,192.8	4,198.0	4,189.4	8.4	8.6	-119.44	-211.1	173.6	298.8	282.5	16.26	18.378		
4,300.0	4,292.6	4,297.8	4,288.9	8.6	8.8	-119.43	-216.7	177.5	306.0	289.3	16.65	18.375		
4,400.0	4,392.4	4,397.5	4,388.4	8.8	9.0	-119.42	-222.4	181.3	313.2	296.2	17.05	18.371		
4,500.0	4,492.2	4,497.3	4,487.9	9.0	9.2	-119.42	-228.1	185.2	320.5	303.0	17.45	18.368		
4,600.0	4,592.0	4,597.0	4,587.4	9.2	9.4	-119.41	-233.8	189.1	327.7	309.9	17.84	18.365		
4,700.0	4,691.8	4,696.7	4,686.9	9.4	9.6	-119.40	-239.5	192.9	334.9	316.7	18.24	18.362		
4,800.0	4,791.6	4,796.5	4,786.4	9.6	9.8	-119.40	-245.1	196.8	342.2	323.5	18.64	18.360		
4,900.0	4,891.4	4,896.2	4,885.9	9.8	10.0	-119.39	-250.8	200.7	349.4	330.4	19.03	18.357		
5,000.0	4,991.2	4,995.9	4,985.4	10.0	10.3	-119.38	-256.5	204.6	356.6	337.2	19.43	18.354		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.0	5,095.7	5,084.9	10.2	10.5	-119.38	-262.2	208.4	363.9	344.1	19.83	18.352		
5,200.0	5,190.8	5,195.4	5,184.4	10.4	10.7	-119.37	-267.9	212.3	371.1	350.9	20.22	18.350		
5,300.0	5,290.6	5,295.2	5,283.9	10.7	10.9	-119.37	-273.5	216.2	378.4	357.7	20.62	18.347		
5,400.0	5,390.4	5,394.9	5,383.4	10.9	11.1	-119.36	-279.2	220.0	385.6	364.6	21.02	18.345		
5,500.0	5,490.2	5,494.6	5,482.9	11.1	11.3	-119.36	-284.9	223.9	392.8	371.4	21.42	18.343		
5,600.0	5,590.0	5,594.4	5,582.4	11.3	11.5	-119.35	-290.6	227.8	400.1	378.3	21.81	18.341		
5,700.0	5,689.9	5,694.1	5,681.9	11.5	11.7	-119.35	-296.2	231.7	407.3	385.1	22.21	18.339		
5,800.0	5,789.7	5,793.8	5,781.4	11.7	11.9	-119.34	-301.9	235.5	414.5	391.9	22.61	18.337		
5,900.0	5,889.5	5,893.6	5,880.9	11.9	12.2	-119.34	-307.6	239.4	421.8	398.8	23.00	18.335		
6,000.0	5,989.3	5,993.3	5,980.4	12.1	12.4	-119.34	-313.3	243.3	429.0	405.6	23.40	18.333		
6,100.0	6,089.1	6,093.1	6,079.9	12.3	12.6	-119.33	-319.0	247.1	436.3	412.5	23.80	18.332		
6,200.0	6,188.9	6,192.8	6,179.4	12.5	12.8	-119.33	-324.6	251.0	443.5	419.3	24.19	18.330		
6,300.0	6,288.7	6,292.5	6,278.9	12.7	13.0	-119.32	-330.3	254.9	450.7	426.1	24.59	18.328		
6,400.0	6,388.5	6,392.3	6,378.4	12.9	13.2	-119.32	-336.0	258.8	458.0	433.0	24.99	18.327		
6,500.0	6,488.3	6,494.8	6,480.7	13.1	13.4	-120.11	-335.4	262.7	464.9	439.6	25.32	18.363		
6,600.0	6,588.1	6,592.8	6,577.0	13.3	13.4	-122.88	-318.0	266.5	471.9	446.4	25.52	18.494		
6,700.0	6,687.9	6,681.0	6,660.0	13.5	13.3	-126.93	-288.5	269.7	481.2	455.6	25.61	18.791		
6,800.0	6,787.7	6,757.4	6,727.4	13.7	13.2	-131.47	-252.9	272.3	495.7	470.1	25.64	19.338		
6,900.0	6,887.5	6,821.9	6,780.3	13.9	13.1	-135.88	-216.1	274.4	518.1	492.4	25.64	20.206		
7,000.0	6,987.3	6,875.8	6,821.1	14.2	13.0	-142.84	-180.9	276.0	549.7	524.0	25.65	21.428		
7,100.0	7,087.0	6,925.3	6,855.6	14.3	13.0	80.79	-145.4	277.3	587.7	562.2	25.56	22.997		
7,200.0	7,184.6	6,975.0	6,886.8	14.3	13.0	65.77	-106.9	278.5	627.3	602.0	25.31	24.788		
7,300.0	7,276.9	7,024.6	6,914.7	14.2	13.0	57.94	-65.8	279.6	665.8	641.0	24.86	26.783		
7,400.0	7,361.3	7,074.4	6,938.9	14.0	13.1	52.39	-22.4	280.6	701.3	677.1	24.22	28.953		
7,500.0	7,435.1	7,124.2	6,959.3	13.9	13.2	48.30	23.0	281.4	732.4	709.0	23.46	31.225		
7,600.0	7,496.2	7,174.0	6,975.7	13.9	13.3	45.33	70.1	282.0	758.0	735.4	22.68	33.427		
7,700.0	7,542.6	7,223.9	6,988.0	14.1	13.5	43.29	118.4	282.5	777.4	755.4	22.08	35.216		
7,800.0	7,573.0	7,273.7	6,996.0	14.4	13.8	42.05	167.6	282.8	790.1	768.3	21.84	36.173		
7,900.0	7,586.4	7,323.6	6,999.7	14.9	14.1	41.54	217.3	282.9	795.8	773.7	22.12	35.969		
8,000.0	7,587.0	7,405.8	7,000.0	15.6	14.7	41.56	299.5	282.9	796.6	773.5	23.08	34.510		
8,100.0	7,587.0	7,505.8	7,000.0	16.5	15.6	41.62	399.5	282.9	797.3	772.9	24.34	32.754		
8,200.0	7,587.0	7,605.8	7,000.0	17.5	16.7	41.68	499.5	282.9	798.0	772.2	25.76	30.981		
8,300.0	7,587.0	7,705.8	7,000.0	18.6	17.8	41.73	599.5	282.9	798.7	771.4	27.31	29.248		
8,400.0	7,587.0	7,805.8	7,000.0	19.8	19.1	41.79	699.5	282.9	799.4	770.4	28.97	27.593		
8,500.0	7,587.0	7,905.8	7,000.0	21.1	20.4	41.84	799.5	282.9	800.1	769.3	30.73	26.036		
8,600.0	7,587.0	8,005.8	7,000.0	22.4	21.8	41.90	899.4	282.9	800.8	768.2	32.57	24.586		
8,700.0	7,587.0	8,105.8	7,000.0	23.8	23.2	41.96	999.4	282.9	801.5	767.0	34.48	23.243		
8,800.0	7,587.0	8,205.8	7,000.0	25.3	24.6	42.01	1,099.4	282.9	802.2	765.7	36.45	22.006		
8,900.0	7,587.0	8,305.8	7,000.0	26.8	26.2	42.07	1,199.4	282.9	802.9	764.4	38.47	20.868		
9,000.0	7,587.0	8,405.7	7,000.0	28.3	27.7	42.12	1,299.4	282.9	803.6	763.0	40.54	19.822		
9,100.0	7,587.0	8,505.7	7,000.0	29.8	29.2	42.18	1,399.4	282.9	804.3	761.6	42.65	18.859		
9,200.0	7,587.0	8,605.7	7,000.0	31.4	30.8	42.23	1,499.4	282.9	805.0	760.2	44.78	17.974		
9,300.0	7,587.0	8,705.7	7,000.0	32.9	32.4	42.29	1,599.4	282.9	805.7	758.7	46.95	17.159		
9,400.0	7,587.0	8,805.7	7,000.0	34.5	34.0	42.34	1,699.4	282.9	806.4	757.2	49.15	16.406		
9,500.0	7,587.0	8,905.7	7,000.0	36.2	35.7	42.40	1,799.4	282.9	807.1	755.7	51.37	15.711		
9,600.0	7,587.0	9,005.7	7,000.0	37.8	37.3	42.45	1,899.4	282.9	807.8	754.2	53.61	15.067		
9,700.0	7,587.0	9,105.7	7,000.0	39.4	39.0	42.51	1,999.4	282.9	808.5	752.6	55.88	14.470		
9,800.0	7,587.0	9,205.7	7,000.0	41.1	40.6	42.56	2,099.4	282.9	809.2	751.1	58.16	13.914		
9,900.0	7,587.0	9,305.7	7,000.0	42.7	42.3	42.62	2,199.4	282.9	809.9	749.5	60.45	13.398		
10,000.0	7,587.0	9,405.7	7,000.0	44.4	43.9	42.67	2,299.4	282.9	810.6	747.9	62.76	12.915		
10,100.0	7,587.0	9,505.7	7,000.0	46.0	45.6	42.73	2,399.4	282.9	811.3	746.2	65.09	12.465		
10,200.0	7,587.0	9,605.7	7,000.0	47.7	47.3	42.78	2,499.4	282.9	812.0	744.6	67.43	12.043		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,300.0	7,587.0	9,705.7	7,000.0	49.4	49.0	42.83	2,599.4	282.9	812.8	743.0	69.78	11.647		
10,400.0	7,587.0	9,805.7	7,000.0	51.1	50.7	42.89	2,699.3	282.9	813.5	741.3	72.14	11.276		
10,500.0	7,587.0	9,905.7	7,000.0	52.8	52.4	42.94	2,799.3	282.9	814.2	739.7	74.52	10.926		
10,600.0	7,587.0	10,005.7	7,000.0	54.5	54.1	43.00	2,899.3	282.9	814.9	738.0	76.90	10.596		
10,700.0	7,587.0	10,105.7	7,000.0	56.2	55.8	43.05	2,999.3	282.9	815.6	736.3	79.30	10.286		
10,800.0	7,587.0	10,205.7	7,000.0	57.9	57.5	43.10	3,099.3	282.9	816.3	734.6	81.70	9.992		
10,900.0	7,587.0	10,305.6	7,000.0	59.6	59.2	43.16	3,199.3	282.9	817.0	732.9	84.11	9.714		
11,000.0	7,587.0	10,405.6	7,000.0	61.3	60.9	43.21	3,299.3	282.9	817.8	731.2	86.53	9.450		
11,100.0	7,587.0	10,505.6	7,000.0	63.0	62.6	43.26	3,399.3	282.9	818.5	729.5	88.96	9.200		
11,200.0	7,587.0	10,605.6	7,000.0	64.7	64.3	43.32	3,499.3	282.9	819.2	727.8	91.40	8.963		
11,300.0	7,587.0	10,705.6	7,000.0	66.4	66.1	43.37	3,599.3	282.9	819.9	726.1	93.84	8.737		
11,400.0	7,587.0	10,805.6	7,000.0	68.1	67.8	43.42	3,699.3	282.9	820.6	724.3	96.30	8.522		
11,500.0	7,587.0	10,905.6	7,000.0	69.8	69.5	43.48	3,799.3	282.9	821.4	722.6	98.76	8.317		
11,600.0	7,587.0	11,005.6	7,000.0	71.6	71.2	43.53	3,899.3	282.9	822.1	720.9	101.22	8.122		
11,700.0	7,587.0	11,105.6	7,000.0	73.3	73.0	43.58	3,999.3	282.9	822.8	719.1	103.69	7.935		
11,800.0	7,587.0	11,205.6	7,000.0	75.0	74.7	43.64	4,099.3	282.9	823.5	717.3	106.17	7.756		
11,900.0	7,587.0	11,305.6	7,000.0	76.7	76.4	43.69	4,199.3	282.9	824.2	715.6	108.66	7.586		
12,000.0	7,587.0	11,405.6	7,000.0	78.5	78.1	43.74	4,299.3	282.9	825.0	713.8	111.15	7.422		
12,100.0	7,587.0	11,505.6	7,000.0	80.2	79.9	43.79	4,399.3	282.9	825.7	712.0	113.65	7.265		
12,200.0	7,587.0	11,605.6	7,000.0	81.9	81.6	43.85	4,499.2	282.9	826.4	710.3	116.15	7.115		
12,300.0	7,587.0	11,705.6	7,000.0	83.6	83.3	43.90	4,599.2	282.9	827.1	708.5	118.66	6.970		
12,400.0	7,587.0	11,805.6	7,000.0	85.4	85.1	43.95	4,699.2	282.9	827.9	706.7	121.18	6.832		
12,500.0	7,587.0	11,905.6	7,000.0	87.1	86.8	44.00	4,799.2	282.9	828.6	704.9	123.70	6.698		
12,600.0	7,587.0	12,005.6	7,000.0	88.8	88.5	44.05	4,899.2	282.9	829.3	703.1	126.23	6.570		
12,700.0	7,587.0	12,105.6	7,000.0	90.6	90.3	44.11	4,999.2	282.9	830.0	701.3	128.76	6.446		
12,800.0	7,587.0	12,205.6	7,000.0	92.3	92.0	44.16	5,099.2	282.9	830.8	699.5	131.30	6.327		
12,900.0	7,587.0	12,305.6	7,000.0	94.0	93.7	44.21	5,199.2	282.9	831.5	697.7	133.84	6.213		
13,000.0	7,587.0	12,405.6	7,000.0	95.8	95.5	44.26	5,299.2	282.9	832.2	695.8	136.39	6.102		
13,100.0	7,587.0	12,505.6	7,000.0	97.5	97.2	44.31	5,399.2	282.9	833.0	694.0	138.95	5.995		
13,200.0	7,587.0	12,605.6	7,000.0	99.2	99.0	44.36	5,499.2	282.9	833.7	692.2	141.50	5.892		
13,300.0	7,587.0	12,705.6	7,000.0	101.0	100.7	44.42	5,599.2	282.9	834.4	690.4	144.07	5.792		
13,400.0	7,587.0	12,805.6	7,000.0	102.7	102.4	44.47	5,699.2	282.9	835.2	688.5	146.64	5.695		
13,500.0	7,587.0	12,905.6	7,000.0	104.5	104.2	44.52	5,799.2	282.9	835.9	686.7	149.21	5.602		
13,600.0	7,587.0	13,005.6	7,000.0	106.2	105.9	44.57	5,899.2	282.9	836.6	684.8	151.79	5.512		
13,700.0	7,587.0	13,105.6	7,000.0	107.9	107.7	44.62	5,999.2	282.9	837.4	683.0	154.37	5.424		
13,800.0	7,587.0	13,205.6	7,000.0	109.7	109.4	44.67	6,099.2	282.9	838.1	681.1	156.96	5.340		
13,900.0	7,587.0	13,305.6	7,000.0	111.4	111.1	44.72	6,199.2	282.9	838.8	679.3	159.55	5.257		
14,000.0	7,587.0	13,405.6	7,000.0	113.2	112.9	44.77	6,299.1	282.9	839.6	677.4	162.15	5.178		
14,100.0	7,587.0	13,505.6	7,000.0	114.9	114.6	44.82	6,399.1	282.9	840.3	675.6	164.75	5.101		
14,200.0	7,587.0	13,605.6	7,000.0	116.6	116.4	44.87	6,499.1	282.9	841.1	673.7	167.36	5.025		
14,300.0	7,587.0	13,705.6	7,000.0	118.4	118.1	44.93	6,599.1	282.9	841.8	671.8	169.97	4.953		
14,400.0	7,587.0	13,805.6	7,000.0	120.1	119.9	44.98	6,699.1	282.9	842.5	669.9	172.58	4.882		
14,500.0	7,587.0	13,905.4	7,000.0	121.9	121.6	45.03	6,799.1	282.9	843.3	668.1	175.20	4.813		
14,600.0	7,587.0	14,005.4	7,000.0	123.6	123.3	45.08	6,899.1	282.9	844.0	666.2	177.83	4.746		
14,700.0	7,587.0	14,105.4	7,000.0	125.3	125.1	45.13	6,999.1	282.9	844.8	664.3	180.46	4.681		
14,800.0	7,587.0	14,205.4	7,000.0	127.1	126.8	45.18	7,099.1	282.9	845.5	662.4	183.09	4.618		
14,900.0	7,587.0	14,305.4	7,000.0	128.8	128.6	45.23	7,199.1	282.9	846.2	660.5	185.73	4.556		
15,000.0	7,587.0	14,405.4	7,000.0	130.6	130.3	45.28	7,299.1	282.9	847.0	658.6	188.37	4.496		
15,100.0	7,587.0	14,505.4	7,000.0	132.3	132.1	45.33	7,399.1	282.9	847.7	656.7	191.01	4.438		
15,200.0	7,587.0	14,605.4	7,000.0	134.1	133.8	45.38	7,499.1	282.9	848.5	654.8	193.66	4.381		
15,300.0	7,587.0	14,705.4	7,000.0	135.8	135.6	45.43	7,599.1	282.9	849.2	652.9	196.32	4.326		
15,307.1	7,587.0	14,711.4	7,000.0	135.9	135.7	45.43	7,605.1	282.9	849.3	652.8	196.49	4.322 SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	9.0	9.0	0.0	0.0	90.52	-0.4	40.0	40.0					
100.0	100.0	109.0	109.0	0.2	0.1	90.52	-0.4	40.0	40.0	39.7	0.30	134.006		
200.0	200.0	209.0	209.0	0.3	0.3	90.52	-0.4	40.0	40.0	39.3	0.65	61.766		
263.4	263.4	272.4	272.4	0.4	0.4	90.52	-0.4	40.0	40.0	39.1	0.87	46.038 CC		
300.0	300.0	309.0	309.0	0.5	0.5	90.52	-0.4	40.0	40.0	39.0	1.00	40.139 ES		
400.0	400.0	408.4	408.4	0.7	0.7	-121.89	-1.0	40.8	41.2	39.9	1.35	30.658		
500.0	500.0	507.8	507.7	0.9	0.8	-122.45	-2.8	42.9	44.8	43.1	1.70	26.355		
600.0	599.9	607.0	606.8	1.0	1.0	-123.28	-5.6	46.3	50.5	48.5	2.06	24.547		
700.0	699.7	705.9	705.6	1.2	1.2	-124.12	-9.6	51.0	58.5	56.1	2.43	24.085		
800.0	799.5	804.7	804.0	1.4	1.4	-124.02	-14.6	57.0	67.9	65.1	2.81	24.193		
900.0	899.3	904.1	903.0	1.6	1.7	-123.45	-20.4	63.8	78.1	74.9	3.19	24.465		
1,000.0	999.1	1,003.6	1,002.1	1.8	1.9	-123.02	-26.1	70.6	88.3	84.7	3.58	24.662		
1,100.0	1,098.9	1,103.1	1,101.2	2.0	2.1	-122.67	-31.8	77.4	98.4	94.5	3.97	24.811		
1,200.0	1,198.7	1,202.5	1,200.3	2.2	2.3	-122.39	-37.5	84.2	108.6	104.3	4.36	24.925		
1,300.0	1,298.5	1,302.0	1,299.4	2.4	2.6	-122.15	-43.2	91.0	118.8	114.0	4.75	25.016		
1,400.0	1,398.3	1,401.5	1,398.5	2.6	2.8	-121.96	-48.9	97.9	129.0	123.8	5.14	25.090		
1,500.0	1,498.1	1,501.0	1,497.5	2.8	3.0	-121.79	-54.7	104.7	139.2	133.6	5.53	25.151		
1,600.0	1,597.9	1,600.5	1,596.6	3.1	3.2	-121.64	-60.4	111.5	149.4	143.4	5.93	25.202		
1,700.0	1,697.7	1,699.9	1,695.7	3.3	3.5	-121.52	-66.1	118.3	159.5	153.2	6.32	25.245		
1,800.0	1,797.5	1,799.4	1,794.8	3.5	3.7	-121.41	-71.8	125.1	169.7	163.0	6.71	25.283		
1,900.0	1,897.3	1,898.9	1,893.9	3.7	3.9	-121.31	-77.5	131.9	179.9	172.8	7.11	25.315		
2,000.0	1,997.1	1,998.4	1,992.9	3.9	4.2	-121.22	-83.2	138.7	190.1	182.6	7.50	25.343		
2,100.0	2,096.9	2,097.8	2,092.0	4.1	4.4	-121.14	-89.0	145.5	200.3	192.4	7.90	25.368		
2,200.0	2,196.7	2,197.3	2,191.1	4.3	4.6	-121.07	-94.7	152.3	210.5	202.2	8.29	25.390		
2,300.0	2,296.5	2,296.8	2,290.2	4.5	4.9	-121.00	-100.4	159.1	220.7	212.0	8.68	25.409		
2,400.0	2,396.3	2,396.3	2,389.3	4.7	5.1	-120.94	-106.1	166.0	230.9	221.8	9.08	25.427		
2,500.0	2,496.1	2,495.8	2,488.3	4.9	5.3	-120.89	-111.8	172.8	241.1	231.6	9.47	25.443		
2,600.0	2,595.9	2,595.2	2,587.4	5.1	5.5	-120.84	-117.5	179.6	251.2	241.4	9.87	25.457		
2,700.0	2,695.8	2,694.7	2,686.5	5.3	5.8	-120.79	-123.3	186.4	261.4	251.2	10.26	25.471		
2,800.0	2,795.6	2,794.2	2,785.6	5.5	6.0	-120.75	-129.0	193.2	271.6	261.0	10.66	25.483		
2,900.0	2,895.4	2,893.7	2,884.7	5.7	6.2	-120.71	-134.7	200.0	281.8	270.8	11.05	25.494		
3,000.0	2,995.2	2,993.2	2,983.7	5.9	6.5	-120.68	-140.4	206.8	292.0	280.6	11.45	25.504		
3,100.0	3,095.0	3,092.6	3,082.8	6.1	6.7	-120.64	-146.1	213.6	302.2	290.4	11.84	25.513		
3,200.0	3,194.8	3,192.1	3,181.9	6.3	6.9	-120.61	-151.8	220.4	312.4	300.2	12.24	25.522		
3,300.0	3,294.6	3,291.6	3,281.0	6.5	7.2	-120.58	-157.6	227.2	322.6	310.0	12.64	25.530		
3,400.0	3,394.4	3,391.1	3,380.1	6.7	7.4	-120.55	-163.3	234.1	332.8	319.7	13.03	25.537		
3,500.0	3,494.2	3,490.6	3,479.2	7.0	7.6	-120.53	-169.0	240.9	343.0	329.5	13.43	25.545		
3,600.0	3,594.0	3,590.0	3,578.2	7.2	7.9	-120.50	-174.7	247.7	353.2	339.3	13.82	25.551		
3,700.0	3,693.8	3,689.5	3,677.3	7.4	8.1	-120.48	-180.4	254.5	363.4	349.1	14.22	25.557		
3,800.0	3,793.6	3,789.0	3,776.4	7.6	8.3	-120.45	-186.2	261.3	373.5	358.9	14.61	25.563		
3,900.0	3,893.4	3,888.5	3,875.5	7.8	8.6	-120.43	-191.9	268.1	383.7	368.7	15.01	25.568		
4,000.0	3,993.2	3,988.0	3,974.6	8.0	8.8	-120.41	-197.6	274.9	393.9	378.5	15.40	25.574		
4,100.0	4,093.0	4,087.4	4,073.6	8.2	9.0	-120.39	-203.3	281.7	404.1	388.3	15.80	25.578		
4,200.0	4,192.8	4,186.9	4,172.7	8.4	9.3	-120.38	-209.0	288.5	414.3	398.1	16.19	25.583		
4,300.0	4,292.6	4,286.4	4,271.8	8.6	9.5	-120.36	-214.7	295.3	424.5	407.9	16.59	25.587		
4,400.0	4,392.4	4,385.9	4,370.9	8.8	9.7	-120.34	-220.5	302.2	434.7	417.7	16.99	25.591		
4,500.0	4,492.2	4,485.3	4,470.0	9.0	10.0	-120.33	-226.2	309.0	444.9	427.5	17.38	25.595		
4,600.0	4,592.0	4,584.8	4,569.0	9.2	10.2	-120.31	-231.9	315.8	455.1	437.3	17.78	25.599		
4,700.0	4,691.8	4,684.3	4,668.1	9.4	10.4	-120.30	-237.6	322.6	465.3	447.1	18.17	25.603		
4,800.0	4,791.6	4,783.8	4,767.2	9.6	10.7	-120.28	-243.3	329.4	475.5	456.9	18.57	25.606		
4,900.0	4,891.4	4,883.3	4,866.3	9.8	10.9	-120.27	-249.0	336.2	485.7	466.7	18.96	25.609		
5,000.0	4,991.2	4,982.7	4,965.4	10.0	11.1	-120.26	-254.8	343.0	495.9	476.5	19.36	25.612		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.0	5,082.2	5,064.5	10.2	11.4	-120.25	-260.5	349.8	506.0	486.3	19.76	25.615		
5,200.0	5,190.8	5,181.7	5,163.5	10.4	11.6	-120.24	-266.2	356.6	516.2	496.1	20.15	25.618		
5,300.0	5,290.6	5,281.2	5,262.6	10.7	11.8	-120.22	-271.9	363.4	526.4	505.9	20.55	25.621		
5,400.0	5,390.4	5,380.7	5,361.7	10.9	12.1	-120.21	-277.6	370.3	536.6	515.7	20.94	25.623		
5,500.0	5,490.2	5,480.1	5,460.8	11.1	12.3	-120.20	-283.3	377.1	546.8	525.5	21.34	25.626		
5,600.0	5,590.0	5,579.6	5,559.9	11.3	12.5	-120.19	-289.1	383.9	557.0	535.3	21.73	25.628		
5,700.0	5,689.9	5,679.1	5,658.9	11.5	12.8	-120.18	-294.8	390.7	567.2	545.1	22.13	25.630		
5,800.0	5,789.7	5,778.6	5,758.0	11.7	13.0	-120.18	-300.5	397.5	577.4	554.9	22.53	25.633		
5,900.0	5,889.5	5,878.1	5,857.1	11.9	13.2	-120.17	-306.2	404.3	587.6	564.7	22.92	25.635		
6,000.0	5,989.3	5,977.5	5,956.2	12.1	13.5	-120.16	-311.9	411.1	597.8	574.5	23.32	25.637		
6,100.0	6,089.1	6,077.0	6,055.3	12.3	13.7	-120.15	-317.6	417.9	608.0	584.3	23.71	25.639		
6,200.0	6,188.9	6,176.5	6,154.3	12.5	13.9	-120.14	-323.4	424.7	618.2	594.1	24.11	25.641		
6,300.0	6,288.7	6,276.0	6,253.4	12.7	14.2	-120.13	-329.1	431.5	628.4	603.8	24.50	25.642		
6,400.0	6,388.5	6,375.5	6,352.5	12.9	14.4	-120.13	-334.8	438.4	638.5	613.6	24.90	25.644		
6,500.0	6,488.3	6,476.9	6,453.6	13.1	14.6	-120.38	-337.7	445.3	648.7	623.4	25.26	25.674		
6,600.0	6,588.1	6,576.5	6,552.0	13.3	14.7	-122.00	-324.7	452.1	658.6	633.0	25.53	25.795		
6,700.0	6,687.9	6,667.4	6,638.6	13.5	14.6	-124.69	-298.1	458.0	669.6	643.9	25.71	26.042		
6,800.0	6,787.7	6,746.8	6,710.0	13.7	14.6	-127.89	-263.9	462.9	683.8	658.0	25.83	26.470		
6,900.0	6,887.5	6,814.3	6,766.5	13.9	14.5	-131.14	-227.2	466.8	703.2	677.3	25.92	27.128		
7,000.0	6,987.3	6,870.9	6,810.4	14.2	14.5	-137.12	-191.5	469.8	729.3	703.3	26.00	28.045		
7,100.0	7,087.0	6,922.8	6,847.2	14.3	14.4	87.89	-155.2	472.4	760.6	734.5	26.03	29.214		
7,200.0	7,184.6	6,974.4	6,880.5	14.3	14.4	73.90	-115.8	474.6	793.6	767.7	25.90	30.640		
7,300.0	7,276.9	7,025.8	6,910.1	14.2	14.5	66.71	-73.8	476.7	826.2	800.6	25.57	32.308		
7,400.0	7,361.3	7,077.2	6,935.7	14.0	14.5	61.52	-29.3	478.4	856.7	831.7	25.04	34.210		
7,500.0	7,435.1	7,128.5	6,957.2	13.9	14.6	57.57	17.2	479.9	883.8	859.3	24.47	36.115		
7,600.0	7,496.2	7,179.8	6,974.5	13.9	14.8	54.62	65.5	481.1	906.3	882.5	23.86	37.987		
7,700.0	7,542.6	7,231.0	6,987.4	14.1	15.0	52.54	115.0	482.0	923.6	900.1	23.45	39.380		
7,800.0	7,573.0	7,282.3	6,995.8	14.4	15.2	51.25	165.6	482.6	935.0	911.6	23.43	39.899		
7,900.0	7,586.4	7,333.5	6,999.7	14.9	15.5	50.70	216.7	482.8	940.3	916.3	23.94	39.274		
8,000.0	7,587.0	7,416.4	7,000.0	15.6	16.1	50.71	299.5	482.9	941.2	916.1	25.06	37.560		
8,100.0	7,587.0	7,516.4	7,000.0	16.5	16.9	50.75	399.5	482.9	942.0	915.5	26.49	35.563		
8,200.0	7,587.0	7,616.3	7,000.0	17.5	17.9	50.79	499.5	482.9	942.8	914.7	28.11	33.535		
8,300.0	7,587.0	7,716.3	7,000.0	18.6	18.9	50.83	599.5	482.9	943.6	913.7	29.90	31.556		
8,400.0	7,587.0	7,816.3	7,000.0	19.8	20.1	50.87	699.5	482.9	944.4	912.6	31.83	29.671		
8,500.0	7,587.0	7,916.3	7,000.0	21.1	21.4	50.91	799.5	482.9	945.2	911.4	33.87	27.907		
8,600.0	7,587.0	8,016.3	7,000.0	22.4	22.7	50.95	899.4	482.9	946.0	910.0	36.01	26.273		
8,700.0	7,587.0	8,116.3	7,000.0	23.8	24.0	50.99	999.4	482.9	946.9	908.6	38.23	24.770		
8,800.0	7,587.0	8,216.3	7,000.0	25.3	25.5	51.03	1,099.4	482.9	947.7	907.2	40.51	23.393		
8,900.0	7,587.0	8,316.3	7,000.0	26.8	26.9	51.07	1,199.4	482.9	948.5	905.6	42.85	22.133		
9,000.0	7,587.0	8,416.3	7,000.0	28.3	28.4	51.11	1,299.4	482.9	949.3	904.1	45.25	20.981		
9,100.0	7,587.0	8,516.3	7,000.0	29.8	29.9	51.15	1,399.4	482.9	950.1	902.4	47.68	19.927		
9,200.0	7,587.0	8,616.3	7,000.0	31.4	31.5	51.19	1,499.4	482.9	950.9	900.8	50.15	18.962		
9,300.0	7,587.0	8,716.3	7,000.0	32.9	33.1	51.23	1,599.4	482.9	951.7	899.1	52.65	18.076		
9,400.0	7,587.0	8,816.3	7,000.0	34.5	34.6	51.27	1,699.4	482.9	952.6	897.4	55.18	17.262		
9,500.0	7,587.0	8,916.3	7,000.0	36.2	36.2	51.31	1,799.4	482.9	953.4	895.6	57.74	16.512		
9,600.0	7,587.0	9,016.3	7,000.0	37.8	37.8	51.34	1,899.4	482.9	954.2	893.9	60.31	15.820		
9,700.0	7,587.0	9,116.3	7,000.0	39.4	39.5	51.38	1,999.4	482.9	955.0	892.1	62.91	15.180		
9,800.0	7,587.0	9,216.3	7,000.0	41.1	41.1	51.42	2,099.4	482.9	955.8	890.3	65.53	14.587		
9,900.0	7,587.0	9,316.3	7,000.0	42.7	42.8	51.46	2,199.4	482.9	956.7	888.5	68.16	14.036		
10,000.0	7,587.0	9,416.3	7,000.0	44.4	44.4	51.50	2,299.4	482.9	957.5	886.7	70.80	13.524		
10,100.0	7,587.0	9,516.2	7,000.0	46.0	46.1	51.54	2,399.4	482.9	958.3	884.8	73.46	13.045		
10,200.0	7,587.0	9,616.2	7,000.0	47.7	47.7	51.58	2,499.4	482.8	959.1	883.0	76.13	12.599		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					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)	Total Uncertainty Axis			
10,300.0	7,587.0	9,716.2	7,000.0	49.4	49.4	51.62	2,599.4	482.8	959.9	881.1	78.81	12.181		
10,400.0	7,587.0	9,816.2	7,000.0	51.1	51.1	51.66	2,699.3	482.8	960.8	879.3	81.50	11.788		
10,500.0	7,587.0	9,916.2	7,000.0	52.8	52.8	51.70	2,799.3	482.8	961.6	877.4	84.20	11.420		
10,600.0	7,587.0	10,016.2	7,000.0	54.5	54.5	51.73	2,899.3	482.8	962.4	875.5	86.91	11.073		
10,700.0	7,587.0	10,116.2	7,000.0	56.2	56.2	51.77	2,999.3	482.8	963.2	873.6	89.63	10.747		
10,800.0	7,587.0	10,216.2	7,000.0	57.9	57.8	51.81	3,099.3	482.8	964.0	871.7	92.36	10.438		
10,900.0	7,587.0	10,316.2	7,000.0	59.6	59.5	51.85	3,199.3	482.8	964.9	869.8	95.09	10.147		
11,000.0	7,587.0	10,416.2	7,000.0	61.3	61.3	51.89	3,299.3	482.8	965.7	867.9	97.83	9.871		
11,100.0	7,587.0	10,516.2	7,000.0	63.0	63.0	51.93	3,399.3	482.8	966.5	865.9	100.58	9.609		
11,200.0	7,587.0	10,616.2	7,000.0	64.7	64.7	51.96	3,499.3	482.8	967.3	864.0	103.33	9.361		
11,300.0	7,587.0	10,716.2	7,000.0	66.4	66.4	52.00	3,599.3	482.8	968.2	862.1	106.09	9.125		
11,400.0	7,587.0	10,816.2	7,000.0	68.1	68.1	52.04	3,699.3	482.8	969.0	860.1	108.86	8.901		
11,500.0	7,587.0	10,916.2	7,000.0	69.8	69.8	52.08	3,799.3	482.8	969.8	858.2	111.63	8.688		
11,600.0	7,587.0	11,016.2	7,000.0	71.6	71.5	52.12	3,899.3	482.8	970.6	856.2	114.41	8.484		
11,700.0	7,587.0	11,116.2	7,000.0	73.3	73.2	52.15	3,999.3	482.8	971.5	854.3	117.19	8.289		
11,800.0	7,587.0	11,216.2	7,000.0	75.0	75.0	52.19	4,099.3	482.8	972.3	852.3	119.98	8.104		
11,900.0	7,587.0	11,316.1	7,000.0	76.7	76.7	52.23	4,199.3	482.8	973.1	850.3	122.77	7.926		
12,000.0	7,587.0	11,416.1	7,000.0	78.5	78.4	52.27	4,299.3	482.8	973.9	848.4	125.57	7.756		
12,100.0	7,587.0	11,516.1	7,000.0	80.2	80.1	52.31	4,399.3	482.8	974.8	846.4	128.37	7.593		
12,200.0	7,587.0	11,616.1	7,000.0	81.9	81.9	52.34	4,499.2	482.8	975.6	844.4	131.18	7.437		
12,300.0	7,587.0	11,716.1	7,000.0	83.6	83.6	52.38	4,599.2	482.8	976.4	842.4	133.99	7.287		
12,400.0	7,587.0	11,816.1	7,000.0	85.4	85.3	52.42	4,699.2	482.8	977.3	840.5	136.80	7.144		
12,500.0	7,587.0	11,916.1	7,000.0	87.1	87.0	52.46	4,799.2	482.8	978.1	838.5	139.62	7.005		
12,600.0	7,587.0	12,016.1	7,000.0	88.8	88.8	52.49	4,899.2	482.8	978.9	836.5	142.44	6.872		
12,700.0	7,587.0	12,116.1	7,000.0	90.6	90.5	52.53	4,999.2	482.8	979.8	834.5	145.27	6.744		
12,800.0	7,587.0	12,216.1	7,000.0	92.3	92.2	52.57	5,099.2	482.8	980.6	832.5	148.10	6.621		
12,900.0	7,587.0	12,316.1	7,000.0	94.0	94.0	52.61	5,199.2	482.8	981.4	830.5	150.93	6.502		
13,000.0	7,587.0	12,416.1	7,000.0	95.8	95.7	52.64	5,299.2	482.8	982.2	828.5	153.77	6.388		
13,100.0	7,587.0	12,516.1	7,000.0	97.5	97.4	52.68	5,399.2	482.8	983.1	826.5	156.61	6.277		
13,200.0	7,587.0	12,616.1	7,000.0	99.2	99.2	52.72	5,499.2	482.8	983.9	824.5	159.46	6.170		
13,300.0	7,587.0	12,716.1	7,000.0	101.0	100.9	52.75	5,599.2	482.8	984.7	822.4	162.31	6.067		
13,400.0	7,587.0	12,816.1	7,000.0	102.7	102.6	52.79	5,699.2	482.8	985.6	820.4	165.16	5.967		
13,500.0	7,587.0	12,916.1	7,000.0	104.5	104.4	52.83	5,799.2	482.8	986.4	818.4	168.01	5.871		
13,600.0	7,587.0	13,016.1	7,000.0	106.2	106.1	52.86	5,899.2	482.8	987.2	816.4	170.87	5.705		
13,700.0	7,587.0	13,116.0	7,000.0	107.9	107.8	52.90	5,999.2	482.8	988.1	814.4	173.73	5.687		
13,800.0	7,587.0	13,216.0	7,000.0	109.7	109.6	52.94	6,099.2	482.8	988.9	812.3	176.60	5.600		
13,900.0	7,587.0	13,316.0	7,000.0	111.4	111.3	52.97	6,199.2	482.8	989.8	810.3	179.47	5.515		
14,000.0	7,587.0	13,416.0	7,000.0	113.2	113.1	53.01	6,299.2	482.8	990.6	808.3	182.34	5.433		
14,100.0	7,587.0	13,516.0	7,000.0	114.9	114.8	53.05	6,399.1	482.8	991.4	806.2	185.21	5.353		
14,200.0	7,587.0	13,616.0	7,000.0	116.6	116.5	53.08	6,499.1	482.8	992.3	804.2	188.09	5.276		
14,300.0	7,587.0	13,716.0	7,000.0	118.4	118.3	53.12	6,599.1	482.8	993.1	802.1	190.97	5.200		
14,400.0	7,587.0	13,816.0	7,000.0	120.1	120.0	53.15	6,699.1	482.8	993.9	800.1	193.85	5.127		
14,500.0	7,587.0	13,916.0	7,000.0	121.9	121.8	53.19	6,799.1	482.8	994.8	798.0	196.74	5.056		
14,600.0	7,587.0	14,016.0	7,000.0	123.6	123.5	53.23	6,899.1	482.8	995.6	796.0	199.63	4.987		
14,700.0	7,587.0	14,116.0	7,000.0	125.3	125.2	53.26	6,999.1	482.8	996.5	793.9	202.52	4.920		
14,800.0	7,587.0	14,216.0	7,000.0	127.1	127.0	53.30	7,099.1	482.8	997.3	791.9	205.41	4.855		
14,900.0	7,587.0	14,316.0	7,000.0	128.8	128.7	53.34	7,199.1	482.8	998.1	789.8	208.31	4.792		
15,000.0	7,587.0	14,416.0	7,000.0	130.6	130.5	53.37	7,299.1	482.8	999.0	787.8	211.21	4.730		
15,100.0	7,587.0	14,516.0	7,000.0	132.3	132.2	53.41	7,399.1	482.8	999.8	785.7	214.12	4.670 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - NO SURVE										Offset Site Error:		0.0 ft	
Survey Program: 7710-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,400.0	7,587.0	7,541.0	7,541.0	19.8	13.2	90.00	1,618.1	94.5	981.1	948.6	32.51	30.174	
8,500.0	7,587.0	7,541.0	7,541.0	21.1	13.2	90.00	1,618.1	94.5	888.5	854.7	33.82	26.270	
8,600.0	7,587.0	7,541.0	7,541.0	22.4	13.2	90.00	1,618.1	94.5	797.8	762.6	35.19	22.669	
8,700.0	7,587.0	7,541.0	7,541.0	23.8	13.2	90.00	1,618.1	94.5	709.6	672.9	36.62	19.378	
8,800.0	7,587.0	7,541.0	7,541.0	25.3	13.2	90.00	1,618.1	94.5	624.9	586.8	38.08	16.409	
8,900.0	7,587.0	7,541.0	7,541.0	26.8	13.2	90.00	1,618.1	94.5	545.4	505.8	39.58	13.780	
9,000.0	7,587.0	7,541.0	7,541.0	28.3	13.2	90.00	1,618.1	94.5	473.8	432.7	41.11	11.525	
9,100.0	7,587.0	7,541.0	7,541.0	29.8	13.2	90.00	1,618.1	94.5	414.1	371.4	42.66	9.705	
9,200.0	7,587.0	7,541.0	7,541.0	31.4	13.2	90.00	1,618.1	94.5	372.1	327.9	44.24	8.411	
9,300.0	7,587.0	7,541.0	7,541.0	32.9	13.2	90.00	1,618.1	94.5	354.2	308.4	45.83	7.728	
9,315.0	7,587.0	7,541.0	7,541.0	33.2	13.2	90.00	1,618.1	94.5	353.9	307.8	46.08	7.680 CC, ES	
9,400.0	7,587.0	7,541.0	7,541.0	34.5	13.2	90.00	1,618.1	94.5	363.9	316.5	47.44	7.671 SF	
9,500.0	7,587.0	7,541.0	7,541.0	36.2	13.2	90.00	1,618.1	94.5	399.3	350.2	49.07	8.138	
9,600.0	7,587.0	7,541.0	7,541.0	37.8	13.2	90.00	1,618.1	94.5	454.4	403.7	50.70	8.961	
9,700.0	7,587.0	7,541.0	7,541.0	39.4	13.2	90.00	1,618.1	94.5	522.9	470.6	52.35	9.989	
9,800.0	7,587.0	7,541.0	7,541.0	41.1	13.2	90.00	1,618.1	94.5	600.4	546.4	54.00	11.117	
9,900.0	7,587.0	7,541.0	7,541.0	42.7	13.2	90.00	1,618.1	94.5	683.7	628.0	55.66	12.282	
10,000.0	7,587.0	7,541.0	7,541.0	44.4	13.2	90.00	1,618.1	94.5	771.0	713.7	57.33	13.447	
10,100.0	7,587.0	7,541.0	7,541.0	46.0	13.2	90.00	1,618.1	94.5	861.1	802.0	59.01	14.592	
10,200.0	7,587.0	7,541.0	7,541.0	47.7	13.2	90.00	1,618.1	94.5	953.1	892.4	60.69	15.704	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3B-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4966.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4966.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3B-22H-M268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 13' KB @ 4966.0ft (Ensign 124)

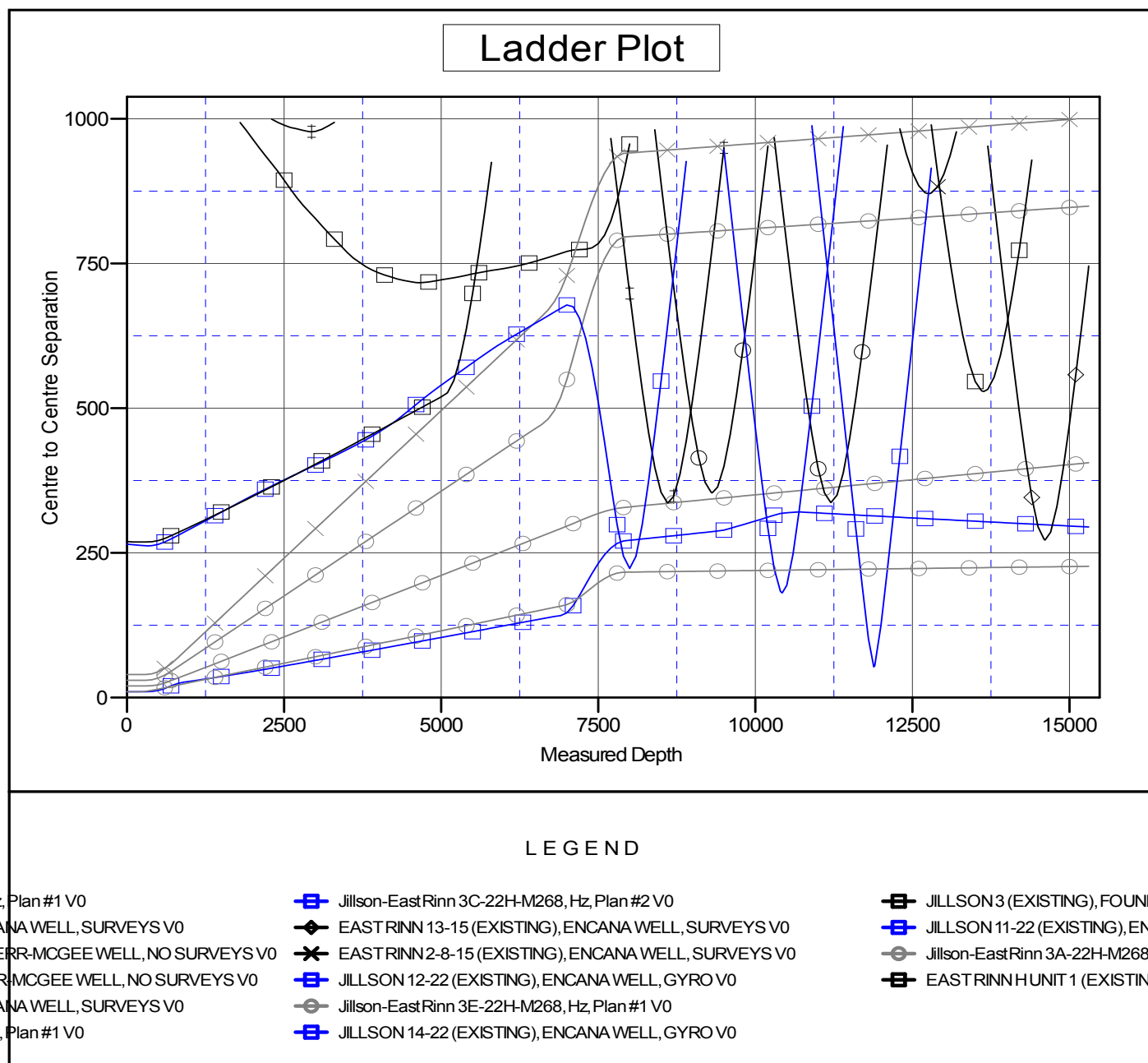
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



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