

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3L-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3L-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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		S32-T2N-R68W (File)			
Site Position:		Northing:	1,275,973.93 ft	Latitude:	40.089950
From:	Lat/Long	Easting:	3,133,277.97 ft	Longitude:	-105.023660
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.31 °

Well	File 3L-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,921.08 ft	Latitude:	40.092580
	+E/-W	0.0 ft	Easting:	3,131,233.30 ft	Longitude:	-105.030950
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,958.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/28/2013	8.71	66.69	52,726

Design	Plan #1			
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	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,108.4	6.58	226.66	1,106.9	-25.9	-27.5	1.00	1.00	0.00	226.66	
6,801.1	6.58	226.66	6,762.1	-473.9	-502.2	0.00	0.00	0.00	0.00	
7,746.2	90.00	0.00	7,378.0	97.3	-553.9	10.00	8.83	14.11	133.15	
10,756.2	90.00	0.00	7,378.0	3,107.3	-553.9	0.00	0.00	0.00	0.00	File 3L-32H-K268 PBI

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3L-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
271.0	0.00	0.00	271.0	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	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	KOP @ 450'
500.0	0.50	226.66	500.0	-0.1	-0.2	-0.1	1.00	1.00	
600.0	1.50	226.66	600.0	-1.3	-1.4	-1.3	1.00	1.00	
700.0	2.50	226.66	699.9	-3.7	-4.0	-3.7	1.00	1.00	
800.0	3.50	226.66	799.8	-7.3	-7.8	-7.3	1.00	1.00	
900.0	4.50	226.66	899.5	-12.1	-12.8	-12.1	1.00	1.00	
1,000.0	5.50	226.66	999.2	-18.1	-19.2	-18.1	1.00	1.00	
1,100.0	6.50	226.66	1,098.6	-25.3	-26.8	-25.3	1.00	1.00	
1,108.4	6.58	226.66	1,106.9	-25.9	-27.5	-25.9	1.00	1.00	EOB; Inc=6.58°
1,200.0	6.58	226.66	1,197.9	-33.1	-35.1	-33.1	0.00	0.00	
1,300.0	6.58	226.66	1,297.3	-41.0	-43.5	-41.0	0.00	0.00	
1,400.0	6.58	226.66	1,396.6	-48.9	-51.8	-48.9	0.00	0.00	
1,500.0	6.58	226.66	1,496.0	-56.7	-60.1	-56.7	0.00	0.00	
1,600.0	6.58	226.66	1,595.3	-64.6	-68.5	-64.6	0.00	0.00	
1,700.0	6.58	226.66	1,694.7	-72.5	-76.8	-72.5	0.00	0.00	
1,800.0	6.58	226.66	1,794.0	-80.4	-85.2	-80.4	0.00	0.00	
1,900.0	6.58	226.66	1,893.3	-88.2	-93.5	-88.2	0.00	0.00	
2,000.0	6.58	226.66	1,992.7	-96.1	-101.8	-96.1	0.00	0.00	
2,100.0	6.58	226.66	2,092.0	-104.0	-110.2	-104.0	0.00	0.00	
2,200.0	6.58	226.66	2,191.4	-111.8	-118.5	-111.8	0.00	0.00	
2,300.0	6.58	226.66	2,290.7	-119.7	-126.8	-119.7	0.00	0.00	
2,400.0	6.58	226.66	2,390.0	-127.6	-135.2	-127.6	0.00	0.00	
2,500.0	6.58	226.66	2,489.4	-135.4	-143.5	-135.4	0.00	0.00	
2,600.0	6.58	226.66	2,588.7	-143.3	-151.9	-143.3	0.00	0.00	
2,700.0	6.58	226.66	2,688.1	-151.2	-160.2	-151.2	0.00	0.00	
2,800.0	6.58	226.66	2,787.4	-159.0	-168.5	-159.0	0.00	0.00	
2,900.0	6.58	226.66	2,886.7	-166.9	-176.9	-166.9	0.00	0.00	
3,000.0	6.58	226.66	2,986.1	-174.8	-185.2	-174.8	0.00	0.00	
3,100.0	6.58	226.66	3,085.4	-182.6	-193.6	-182.6	0.00	0.00	
3,200.0	6.58	226.66	3,184.8	-190.5	-201.9	-190.5	0.00	0.00	
3,300.0	6.58	226.66	3,284.1	-198.4	-210.2	-198.4	0.00	0.00	
3,400.0	6.58	226.66	3,383.4	-206.3	-218.6	-206.3	0.00	0.00	
3,500.0	6.58	226.66	3,482.8	-214.1	-226.9	-214.1	0.00	0.00	
3,600.0	6.58	226.66	3,582.1	-222.0	-235.3	-222.0	0.00	0.00	
3,700.0	6.58	226.66	3,681.5	-229.9	-243.6	-229.9	0.00	0.00	
3,800.0	6.58	226.66	3,780.8	-237.7	-251.9	-237.7	0.00	0.00	
3,900.0	6.58	226.66	3,880.1	-245.6	-260.3	-245.6	0.00	0.00	
4,000.0	6.58	226.66	3,979.5	-253.5	-268.6	-253.5	0.00	0.00	
4,100.0	6.58	226.66	4,078.8	-261.3	-276.9	-261.3	0.00	0.00	
4,200.0	6.58	226.66	4,178.2	-269.2	-285.3	-269.2	0.00	0.00	
4,300.0	6.58	226.66	4,277.5	-277.1	-293.6	-277.1	0.00	0.00	
4,349.8	6.58	226.66	4,327.0	-281.0	-297.8	-281.0	0.00	0.00	Sussex
4,400.0	6.58	226.66	4,376.8	-284.9	-302.0	-284.9	0.00	0.00	
4,500.0	6.58	226.66	4,476.2	-292.8	-310.3	-292.8	0.00	0.00	
4,600.0	6.58	226.66	4,575.5	-300.7	-318.6	-300.7	0.00	0.00	
4,632.7	6.58	226.66	4,608.0	-303.2	-321.4	-303.2	0.00	0.00	Sussex Marker

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Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3L-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,700.0	6.58	226.66	4,674.9	-308.5	-327.0	-308.5	0.00	0.00	
4,800.0	6.58	226.66	4,774.2	-316.4	-335.3	-316.4	0.00	0.00	
4,900.0	6.58	226.66	4,873.5	-324.3	-343.7	-324.3	0.00	0.00	
4,926.6	6.58	226.66	4,900.0	-326.4	-345.9	-326.4	0.00	0.00	Shannon
5,000.0	6.58	226.66	4,972.9	-332.1	-352.0	-332.1	0.00	0.00	
5,100.0	6.58	226.66	5,072.2	-340.0	-360.3	-340.0	0.00	0.00	
5,200.0	6.58	226.66	5,171.6	-347.9	-368.7	-347.9	0.00	0.00	
5,300.0	6.58	226.66	5,270.9	-355.8	-377.0	-355.8	0.00	0.00	
5,400.0	6.58	226.66	5,370.3	-363.6	-385.4	-363.6	0.00	0.00	
5,500.0	6.58	226.66	5,469.6	-371.5	-393.7	-371.5	0.00	0.00	
5,600.0	6.58	226.66	5,568.9	-379.4	-402.0	-379.4	0.00	0.00	
5,700.0	6.58	226.66	5,668.3	-387.2	-410.4	-387.2	0.00	0.00	
5,800.0	6.58	226.66	5,767.6	-395.1	-418.7	-395.1	0.00	0.00	
5,900.0	6.58	226.66	5,867.0	-403.0	-427.0	-403.0	0.00	0.00	
6,000.0	6.58	226.66	5,966.3	-410.8	-435.4	-410.8	0.00	0.00	
6,100.0	6.58	226.66	6,065.6	-418.7	-443.7	-418.7	0.00	0.00	
6,200.0	6.58	226.66	6,165.0	-426.6	-452.1	-426.6	0.00	0.00	
6,300.0	6.58	226.66	6,264.3	-434.4	-460.4	-434.4	0.00	0.00	
6,400.0	6.58	226.66	6,363.7	-442.3	-468.7	-442.3	0.00	0.00	
6,500.0	6.58	226.66	6,463.0	-450.2	-477.1	-450.2	0.00	0.00	
6,600.0	6.58	226.66	6,562.3	-458.0	-485.4	-458.0	0.00	0.00	
6,700.0	6.58	226.66	6,661.7	-465.9	-493.8	-465.9	0.00	0.00	
6,800.0	6.58	226.66	6,761.0	-473.8	-502.1	-473.8	0.00	0.00	
6,801.1	6.58	226.66	6,762.1	-473.9	-502.2	-473.9	0.00	0.00	Start build/turn @ 6801' MD
6,839.2	4.85	261.60	6,800.0	-475.6	-505.4	-475.6	10.00	-4.56	Teepee Buttes (*if present)
6,900.0	7.20	318.37	6,860.5	-473.1	-510.4	-473.1	10.00	3.86	
7,000.0	16.09	343.08	6,958.4	-455.1	-518.7	-455.1	10.00	8.89	
7,100.0	25.80	350.00	7,051.7	-420.4	-526.5	-420.4	10.00	9.71	
7,200.0	35.66	353.28	7,137.6	-369.9	-533.7	-369.9	10.00	9.86	
7,290.9	44.67	355.13	7,207.0	-311.6	-539.5	-311.6	10.00	9.91	Sharon Springs
7,300.0	45.57	355.28	7,213.4	-305.2	-540.1	-305.2	10.00	9.93	
7,400.0	55.51	356.69	7,276.9	-228.2	-545.4	-228.2	10.00	9.94	
7,461.6	61.65	357.40	7,309.0	-175.7	-548.1	-175.7	10.00	9.95	Niobrara
7,500.0	65.47	357.80	7,326.1	-141.4	-549.5	-141.4	10.00	9.96	
7,600.0	75.43	358.75	7,359.5	-47.3	-552.3	-47.3	10.00	9.96	
7,638.8	79.30	359.09	7,368.0	-9.5	-553.0	-9.5	10.00	9.96	B Chalk
7,700.0	85.39	359.61	7,376.1	51.1	-553.7	51.1	10.00	9.96	
7,746.2	90.00	0.00	7,378.0	97.3	-553.9	97.3	10.00	9.96	LP @ 7378' TVD; 90°
7,800.0	90.00	0.00	7,378.0	151.1	-553.9	151.1	0.00	0.00	
7,900.0	90.00	0.00	7,378.0	251.1	-553.9	251.1	0.00	0.00	
8,000.0	90.00	0.00	7,378.0	351.1	-553.9	351.1	0.00	0.00	
8,100.0	90.00	0.00	7,378.0	451.1	-553.9	451.1	0.00	0.00	
8,200.0	90.00	0.00	7,378.0	551.1	-553.9	551.1	0.00	0.00	
8,300.0	90.00	0.00	7,378.0	651.1	-553.9	651.1	0.00	0.00	
8,400.0	90.00	0.00	7,378.0	751.1	-553.9	751.1	0.00	0.00	
8,500.0	90.00	0.00	7,378.0	851.1	-553.9	851.1	0.00	0.00	
8,600.0	90.00	0.00	7,378.0	951.1	-553.9	951.1	0.00	0.00	
8,700.0	90.00	0.00	7,378.0	1,051.1	-553.9	1,051.1	0.00	0.00	
8,800.0	90.00	0.00	7,378.0	1,151.1	-553.9	1,151.1	0.00	0.00	
8,900.0	90.00	0.00	7,378.0	1,251.1	-553.9	1,251.1	0.00	0.00	
9,000.0	90.00	0.00	7,378.0	1,351.1	-553.9	1,351.1	0.00	0.00	
9,100.0	90.00	0.00	7,378.0	1,451.1	-553.9	1,451.1	0.00	0.00	

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Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3L-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	0.00	7,378.0	1,551.1	-553.9	1,551.1	0.00	0.00	
9,300.0	90.00	0.00	7,378.0	1,651.1	-553.9	1,651.1	0.00	0.00	
9,400.0	90.00	0.00	7,378.0	1,751.1	-553.9	1,751.1	0.00	0.00	
9,500.0	90.00	0.00	7,378.0	1,851.1	-553.9	1,851.1	0.00	0.00	
9,600.0	90.00	0.00	7,378.0	1,951.1	-553.9	1,951.1	0.00	0.00	
9,700.0	90.00	0.00	7,378.0	2,051.1	-553.9	2,051.1	0.00	0.00	
9,800.0	90.00	0.00	7,378.0	2,151.1	-553.9	2,151.1	0.00	0.00	
9,900.0	90.00	0.00	7,378.0	2,251.1	-553.9	2,251.1	0.00	0.00	
10,000.0	90.00	0.00	7,378.0	2,351.1	-553.9	2,351.1	0.00	0.00	
10,100.0	90.00	0.00	7,378.0	2,451.1	-553.9	2,451.1	0.00	0.00	
10,200.0	90.00	0.00	7,378.0	2,551.1	-553.9	2,551.1	0.00	0.00	
10,300.0	90.00	0.00	7,378.0	2,651.1	-553.9	2,651.1	0.00	0.00	
10,400.0	90.00	0.00	7,378.0	2,751.1	-553.9	2,751.1	0.00	0.00	
10,500.0	90.00	0.00	7,378.0	2,851.1	-553.9	2,851.1	0.00	0.00	
10,600.0	90.00	0.00	7,378.0	2,951.1	-553.9	2,951.1	0.00	0.00	
10,700.0	90.00	0.00	7,378.0	3,051.1	-553.9	3,051.1	0.00	0.00	
10,756.2	90.00	0.00	7,378.0	3,107.3	-553.9	3,107.3	0.00	0.00	TD at 10756.2

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									
File 3L-32H-K268 PBHL	0.00	0.00	7,378.0	3,107.3	-553.9	1,280,025.42	3,130,662.99	40.101110	-105.032930
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
271.0	271.0	Fox Hills - BASE			
4,349.8	4,327.0	Sussex			
4,632.7	4,608.0	Sussex Marker			
4,926.6	4,900.0	Shannon			
6,839.2	6,800.0	Teepee Buttes (*if present)			
7,290.9	7,207.0	Sharon Springs			
7,461.6	7,309.0	Niobrara			
7,638.8	7,368.0	B Chalk			

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3L-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
450.0	450.0	0.0	0.0	KOP @ 450'
1,108.4	1,106.9	-25.9	-27.5	EOB; Inc=6.58°
6,801.1	6,762.1	-473.9	-502.2	Start build/turn @ 6801' MD
7,746.2	7,378.0	97.3	-553.9	LP @ 7378' TVD; 90°
10,756.2	7,378.0	3,107.3	-553.9	TD at 10756.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3L-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
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 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	6/28/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,756.2	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	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
Offset Well - Wellbore - Design						
S32-T2N-R68W (File)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W	10,196.7	6,773.0	352.2	292.1	5.863	CC
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W	10,200.0	6,773.0	352.2	292.1	5.857	ES, SF
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - Plan #2						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N	10,563.9	7,281.0	430.0	362.8	6.400	CC, ES
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N	10,600.0	7,281.0	431.5	363.7	6.364	SF
File 3A-32H-K268 - Hz - Plan #1	200.0	199.0	75.6	75.0	116.169	CC, ES
File 3A-32H-K268 - Hz - Plan #1	1,400.0	1,375.2	148.7	143.6	28.916	SF
File 3B-32H-K268 - Hz - Plan #1	300.0	299.0	69.9	68.9	69.938	CC, ES
File 3B-32H-K268 - Hz - Plan #1	1,300.0	1,281.4	121.9	117.2	25.672	SF
File 3C-32H-K268 - Hz - Plan #1	400.0	399.0	64.5	63.1	47.772	CC, ES
File 3C-32H-K268 - Hz - Plan #1	1,400.0	1,385.7	98.5	93.3	18.978	SF
File 3D-32H-K268 - Hz - Plan #1	628.7	626.4	58.2	56.0	27.094	CC
File 3D-32H-K268 - Hz - Plan #1	700.0	697.0	58.3	55.9	24.339	ES
File 3D-32H-K268 - Hz - Plan #1	7,665.2	7,408.1	221.9	195.6	8.428	SF
File 3E-32H-K268 - Hz - Plan #1	837.4	835.5	40.4	37.5	13.961	CC, ES
File 3E-32H-K268 - Hz - Plan #1	7,437.1	7,432.1	214.7	187.9	8.015	SF
File 3F-32H-K268 - Hz - Plan #1	1,021.7	1,020.7	26.9	23.3	7.436	CC, ES
File 3F-32H-K268 - Hz - Plan #1	1,100.0	1,098.6	28.1	24.2	7.180	SF
File 3G-32H-K268 - Hz - Plan #1	922.7	922.7	11.8	8.6	3.648	CC, ES, SF
File 3H-32H-K268 - Hz - Plan #1	794.1	794.5	9.0	6.3	3.242	CC, ES
File 3H-32H-K268 - Hz - Plan #1	800.0	800.4	9.1	6.3	3.227	SF
File 3I-32H-K268 - Hz - Plan #1	200.0	200.0	14.5	13.8	22.147	CC, ES
File 3I-32H-K268 - Hz - Plan #1	600.0	598.5	26.6	24.5	12.974	SF
File 3J-32H-K268 - Hz - Plan #1	233.5	233.5	8.4	7.6	10.904	CC
File 3J-32H-K268 - Hz - Plan #1	300.0	299.9	8.6	7.6	8.574	ES
File 3J-32H-K268 - Hz - Plan #1	400.0	399.8	10.2	8.8	7.537	SF
File 3K-32H-K268 - Hz - Plan #1	333.5	333.5	4.6	3.5	4.106	CC
File 3K-32H-K268 - Hz - Plan #1	400.0	400.0	4.8	3.5	3.554	ES, SF
File 3M-32H-K268 - Hz - Plan #1	357.0	357.1	17.0	15.8	14.167	CC
File 3M-32H-K268 - Hz - Plan #1	400.0	400.0	17.1	15.7	12.622	ES
File 3M-32H-K268 - Hz - Plan #1	10,756.2	11,069.1	417.5	318.9	4.234	SF
File 3N-32H-K268 - Hz - Plan #1	300.0	300.0	19.6	18.6	19.549	CC
File 3N-32H-K268 - Hz - Plan #1	400.0	399.9	19.8	18.4	14.634	ES
File 3N-32H-K268 - Hz - Plan #1	600.0	599.6	23.4	21.4	11.362	SF
File 3O-32H-K268 - Hz - Plan #1	233.5	233.5	25.4	24.7	33.050	CC
File 3O-32H-K268 - Hz - Plan #1	300.0	299.8	25.6	24.6	25.555	ES
File 3O-32H-K268 - Hz - Plan #1	600.0	598.5	34.7	32.7	16.888	SF
File 3P-32H-K268 - Hz - Plan #1	200.0	200.0	30.8	30.1	47.147	CC, ES
File 3P-32H-K268 - Hz - Plan #1	600.0	597.6	43.8	41.7	21.299	SF
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU						Out of range
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	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
Offset Well - Wellbore - Design						
S32-T2N-R68W (File)						
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	400.0	399.0	357.6	356.2	260.999	CC
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	500.0	499.0	357.8	356.1	208.186	ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	2,000.0	1,991.7	495.1	488.2	71.299	SF
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						Out of range
NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	6,852.8	6,802.5	68.7	42.7	2.639	CC, ES, SF
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO	9,322.4	7,355.0	418.5	371.9	8.981	CC, ES
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO	9,400.0	7,355.0	425.7	377.8	8.894	SF
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO	9,333.0	7,292.0	409.3	362.6	8.771	CC, ES
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO	9,400.0	7,292.0	414.8	367.0	8.686	SF
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	400.0	303.0	481.6	480.4	399.861	CC
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	500.0	403.0	481.8	480.3	310.149	ES
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	900.0	802.5	497.7	494.8	168.581	SF
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO	9,322.4	7,355.0	425.0	378.4	9.119	CC, ES
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO	9,400.0	7,355.0	432.0	384.1	9.027	SF
Ray Nelson 33-32 - DD - Plan #1						Out of range
Ray Nelson 34-32 - DD - Plan #2						Out of range
Ray Nelson 44-32 - DD - Plan #2						Out of range
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	125.3	128.4	484.9	484.6	1,228.481	CC, ES
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	400.0	366.4	493.9	492.6	383.612	SF
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	189.5	192.5	485.2	484.6	786.357	CC
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	200.0	202.0	485.2	484.6	743.880	ES
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	600.0	579.2	497.9	495.6	225.124	SF
Ray Nelson 7-8-32 - DD - Plan #1						Out of range
Ray Nelson 8-8-32 - DD - Plan #2						Out of range
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 8123-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		
9,900.0	7,378.0	6,773.0	6,773.0	44.4	11.8	90.00	2,547.8	-201.7	460.5	405.4	55.09	8.359		
10,000.0	7,378.0	6,773.0	6,773.0	46.0	11.8	90.00	2,547.8	-201.7	403.4	346.6	56.77	7.106		
10,100.0	7,378.0	6,773.0	6,773.0	47.6	11.8	90.00	2,547.8	-201.7	365.2	306.8	58.44	6.249		
10,196.7	7,378.0	6,773.0	6,773.0	49.2	11.8	90.00	2,547.8	-201.7	352.2	292.1	60.07	5.863 CC		
10,200.0	7,378.0	6,773.0	6,773.0	49.3	11.8	90.00	2,547.8	-201.7	352.2	292.1	60.13	5.857 ES, SF		
10,300.0	7,378.0	6,773.0	6,773.0	50.9	11.8	90.00	2,547.8	-201.7	367.0	305.2	61.82	5.937		
10,400.0	7,378.0	6,773.0	6,773.0	52.6	11.8	90.00	2,547.8	-201.7	406.7	343.1	63.51	6.403		
10,500.0	7,378.0	6,773.0	6,773.0	54.3	11.8	90.00	2,547.8	-201.7	464.8	399.6	65.21	7.128		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File) - FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - NO SURVEYS		Offset Site Error:		0.0 ft
Survey Program:													8107-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	7,378.0	7,281.0	7,281.0	52.6	12.7	-90.00	2,915.0	-983.8	460.1	395.7	64.40	7.145					
10,500.0	7,378.0	7,281.0	7,281.0	54.3	12.7	-90.00	2,915.0	-983.8	434.7	368.6	66.10	6.577					
10,563.9	7,378.0	7,281.0	7,281.0	55.3	12.7	-90.00	2,915.0	-983.8	430.0	362.8	67.18	6.400 CC, ES					
10,600.0	7,378.0	7,281.0	7,281.0	55.9	12.7	-90.00	2,915.0	-983.8	431.5	363.7	67.80	6.364 SF					
10,700.0	7,378.0	7,281.0	7,281.0	57.6	12.7	-90.00	2,915.0	-983.8	451.0	381.5	69.50	6.489					
10,756.2	7,378.0	7,281.0	7,281.0	58.6	12.7	-90.00	2,915.0	-983.8	471.0	400.6	70.46	6.685					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3A-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-92.76	-3.6	-75.5	75.6					
100.0	100.0	99.0	99.0	0.2	0.2	-92.76	-3.6	-75.5	75.6	75.3	0.30	250.279		
200.0	200.0	199.0	199.0	0.3	0.3	-92.76	-3.6	-75.5	75.6	75.0	0.65	116.169 CC, ES		
300.0	300.0	297.7	297.7	0.5	0.5	-92.81	-3.7	-76.4	76.5	75.5	1.00	76.604		
400.0	400.0	396.3	396.3	0.7	0.7	-92.96	-4.1	-78.9	79.0	77.7	1.35	58.659		
500.0	500.0	494.9	494.7	0.9	0.9	40.24	-4.6	-83.1	83.1	81.4	1.69	49.158		
600.0	600.0	593.3	593.0	1.0	1.1	40.64	-5.4	-88.9	87.8	85.8	2.04	43.072		
700.0	699.9	691.6	691.0	1.2	1.3	41.61	-6.4	-96.4	92.9	90.5	2.39	38.894		
800.0	799.8	789.8	788.8	1.4	1.5	43.03	-7.5	-105.6	98.4	95.6	2.74	35.887		
900.0	899.5	887.8	886.2	1.6	1.7	44.81	-8.9	-116.4	104.4	101.3	3.10	33.644		
1,000.0	999.2	985.7	983.3	1.8	2.0	46.86	-10.6	-128.9	111.0	107.5	3.48	31.916		
1,100.0	1,098.6	1,083.5	1,080.0	2.0	2.3	49.11	-12.4	-143.0	118.2	114.3	3.87	30.535		
1,200.0	1,197.9	1,181.0	1,176.2	2.3	2.6	51.29	-14.4	-158.6	126.6	122.3	4.28	29.566		
1,300.0	1,297.3	1,278.2	1,271.9	2.5	2.9	52.99	-16.6	-175.9	136.8	132.1	4.71	29.063		
1,400.0	1,396.6	1,375.2	1,367.0	2.8	3.3	54.25	-19.1	-194.6	148.7	143.6	5.14	28.916 SF		
1,500.0	1,496.0	1,471.8	1,461.3	3.0	3.7	55.12	-21.7	-214.9	162.2	156.7	5.59	29.045		
1,600.0	1,595.3	1,567.9	1,555.0	3.3	4.1	55.68	-24.5	-236.7	177.4	171.3	6.03	29.393		
1,700.0	1,694.7	1,663.9	1,648.0	3.5	4.5	55.97	-27.6	-260.0	194.0	187.6	6.48	29.922		
1,800.0	1,794.0	1,762.4	1,743.3	3.8	5.0	56.17	-30.7	-284.5	211.4	204.4	6.94	30.437		
1,900.0	1,893.3	1,860.8	1,838.7	4.0	5.5	56.33	-33.9	-309.1	228.7	221.3	7.41	30.875		
2,000.0	1,992.7	1,959.3	1,934.0	4.3	5.9	56.47	-37.1	-333.6	246.0	238.1	7.87	31.251		
2,100.0	2,092.0	2,057.8	2,029.3	4.6	6.4	56.59	-40.3	-358.1	263.3	255.0	8.34	31.577		
2,200.0	2,191.4	2,156.3	2,124.6	4.8	6.8	56.69	-43.5	-382.7	280.7	271.9	8.81	31.861		
2,300.0	2,290.7	2,254.8	2,220.0	5.1	7.3	56.79	-46.6	-407.2	298.0	288.7	9.28	32.111		
2,400.0	2,390.0	2,353.3	2,315.3	5.3	7.8	56.87	-49.8	-431.8	315.3	305.6	9.75	32.333		
2,500.0	2,489.4	2,451.8	2,410.6	5.6	8.3	56.95	-53.0	-456.3	332.7	322.4	10.23	32.530		
2,600.0	2,588.7	2,550.2	2,505.9	5.9	8.7	57.01	-56.2	-480.8	350.0	339.3	10.70	32.706		
2,700.0	2,688.1	2,648.7	2,601.3	6.1	9.2	57.08	-59.4	-505.4	367.3	356.2	11.18	32.864		
2,800.0	2,787.4	2,747.2	2,696.6	6.4	9.7	57.13	-62.5	-529.9	384.7	373.0	11.65	33.008		
2,900.0	2,886.7	2,845.7	2,791.9	6.7	10.1	57.18	-65.7	-554.5	402.0	389.9	12.13	33.138		
3,000.0	2,986.1	2,944.2	2,887.2	6.9	10.6	57.23	-68.9	-579.0	419.3	406.7	12.61	33.257		
3,100.0	3,085.4	3,042.7	2,982.6	7.2	11.1	57.27	-72.1	-603.5	436.7	423.6	13.09	33.365		
3,200.0	3,184.8	3,141.2	3,077.9	7.5	11.6	57.31	-75.3	-628.1	454.0	440.4	13.57	33.465		
3,300.0	3,284.1	3,239.6	3,173.2	7.7	12.0	57.35	-78.4	-652.6	471.3	457.3	14.05	33.557		
3,400.0	3,383.4	3,338.1	3,268.5	8.0	12.5	57.38	-81.6	-677.2	488.7	474.1	14.53	33.642		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - 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	0.0	0.0	0.0	0.0	-90.00	0.0	-69.9	70.0					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-69.9	69.9	69.6	0.30	231.471		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-69.9	69.9	69.3	0.65	107.439		
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-69.9	69.9	68.9	1.00	69.938 CC, ES		
400.0	400.0	397.8	397.8	0.7	0.7	-89.94	0.1	-70.8	70.8	69.4	1.35	52.532		
500.0	500.0	496.5	496.5	0.9	0.8	43.69	0.3	-73.3	73.2	71.5	1.69	43.203		
600.0	600.0	595.2	595.1	1.0	1.0	44.84	0.7	-77.5	76.2	74.2	2.04	37.336		
700.0	699.9	693.8	693.4	1.2	1.2	46.84	1.3	-83.4	79.8	77.4	2.39	33.374		
800.0	799.8	792.2	791.6	1.4	1.4	49.54	2.0	-91.0	84.0	81.3	2.74	30.615		
900.0	899.5	890.4	889.4	1.6	1.7	52.76	2.8	-100.2	89.1	86.0	3.11	28.668		
1,000.0	999.2	988.5	986.9	1.8	1.9	56.34	3.8	-111.1	95.2	91.7	3.49	27.293		
1,100.0	1,098.6	1,086.4	1,083.9	2.0	2.2	60.11	5.0	-123.6	102.3	98.5	3.89	26.320		
1,200.0	1,197.9	1,184.0	1,180.5	2.3	2.4	63.65	6.3	-137.7	111.1	106.8	4.31	25.783		
1,300.0	1,297.3	1,281.4	1,276.6	2.5	2.7	66.42	7.8	-153.4	121.9	117.2	4.75	25.672 SF		
1,400.0	1,396.6	1,378.4	1,372.0	2.8	3.1	68.49	9.4	-170.7	134.5	129.3	5.20	25.866		
1,500.0	1,496.0	1,476.7	1,468.5	3.0	3.4	70.04	11.2	-189.4	148.4	142.7	5.66	26.205		
1,600.0	1,595.3	1,575.7	1,565.6	3.3	3.8	71.33	12.9	-208.3	162.5	156.3	6.14	26.474		
1,700.0	1,694.7	1,674.6	1,662.8	3.5	4.1	72.42	14.7	-227.3	176.6	170.0	6.62	26.685		
1,800.0	1,794.0	1,773.6	1,759.9	3.8	4.5	73.34	16.4	-246.2	190.8	183.7	7.11	26.851		
1,900.0	1,893.3	1,872.5	1,857.0	4.0	4.9	74.13	18.2	-265.1	205.0	197.4	7.60	26.984		
2,000.0	1,992.7	1,971.4	1,954.1	4.3	5.2	74.82	20.0	-284.0	219.3	211.2	8.09	27.090		
2,100.0	2,092.0	2,070.4	2,051.2	4.6	5.6	75.43	21.7	-302.9	233.6	225.0	8.59	27.176		
2,200.0	2,191.4	2,169.3	2,148.3	4.8	6.0	75.97	23.5	-321.9	247.9	238.8	9.10	27.246		
2,300.0	2,290.7	2,268.3	2,245.4	5.1	6.4	76.45	25.3	-340.8	262.2	252.6	9.60	27.303		
2,400.0	2,390.0	2,367.2	2,342.5	5.3	6.7	76.88	27.0	-359.7	276.5	266.4	10.11	27.350		
2,500.0	2,489.4	2,466.2	2,439.6	5.6	7.1	77.26	28.8	-378.6	290.9	280.3	10.62	27.389		
2,600.0	2,588.7	2,565.1	2,536.7	5.9	7.5	77.61	30.6	-397.5	305.3	294.1	11.13	27.421		
2,700.0	2,688.1	2,664.1	2,633.8	6.1	7.8	77.93	32.3	-416.5	319.7	308.0	11.65	27.448		
2,800.0	2,787.4	2,763.0	2,730.9	6.4	8.2	78.22	34.1	-435.4	334.0	321.9	12.16	27.470		
2,900.0	2,886.7	2,862.0	2,828.0	6.7	8.6	78.49	35.9	-454.3	348.4	335.8	12.68	27.489		
3,000.0	2,986.1	2,960.9	2,925.1	6.9	9.0	78.74	37.6	-473.2	362.8	349.7	13.19	27.505		
3,100.0	3,085.4	3,059.8	3,022.2	7.2	9.3	78.96	39.4	-492.1	377.3	363.5	13.71	27.519		
3,200.0	3,184.8	3,158.8	3,119.3	7.5	9.7	79.17	41.2	-511.1	391.7	377.4	14.23	27.530		
3,300.0	3,284.1	3,257.7	3,216.4	7.7	10.1	79.37	42.9	-530.0	406.1	391.3	14.75	27.539		
3,400.0	3,383.4	3,356.7	3,313.5	8.0	10.5	79.55	44.7	-548.9	420.5	405.3	15.27	27.547		
3,500.0	3,482.8	3,455.6	3,410.6	8.2	10.9	79.72	46.5	-567.8	434.9	419.2	15.79	27.554		
3,600.0	3,582.1	3,554.6	3,507.7	8.5	11.2	79.88	48.2	-586.7	449.4	433.1	16.31	27.559		
3,700.0	3,681.5	3,653.5	3,604.8	8.8	11.6	80.03	50.0	-605.7	463.8	447.0	16.83	27.564		
3,800.0	3,780.8	3,752.5	3,701.9	9.0	12.0	80.17	51.8	-624.6	478.3	460.9	17.35	27.568		
3,900.0	3,880.1	3,851.4	3,799.0	9.3	12.4	80.30	53.5	-643.5	492.7	474.8	17.87	27.571		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-93.24	-3.6	-64.3	64.5					
100.0	100.0	99.0	99.0	0.2	0.2	-93.24	-3.6	-64.3	64.5	64.1	0.30	213.295		
200.0	200.0	199.0	199.0	0.3	0.3	-93.24	-3.6	-64.3	64.5	63.8	0.65	99.002		
300.0	300.0	299.0	299.0	0.5	0.5	-93.24	-3.6	-64.3	64.5	63.5	1.00	64.446		
400.0	400.0	399.0	399.0	0.7	0.7	-93.24	-3.6	-64.3	64.5	63.1	1.35	47.772	CC, ES	
500.0	500.0	497.9	497.9	0.9	0.8	40.07	-3.9	-65.2	65.1	63.4	1.70	38.385		
600.0	600.0	596.8	596.8	1.0	1.0	40.59	-4.5	-67.6	66.3	64.3	2.04	32.437		
700.0	699.9	695.6	695.5	1.2	1.2	41.73	-5.6	-71.7	67.9	65.5	2.39	28.353		
800.0	799.8	794.4	794.1	1.4	1.4	43.44	-7.1	-77.5	69.9	67.1	2.75	25.420		
900.0	899.5	893.2	892.6	1.6	1.6	45.63	-9.0	-84.9	72.3	69.2	3.11	23.249		
1,000.0	999.2	991.9	990.8	1.8	1.8	48.22	-11.4	-93.9	75.4	71.9	3.49	21.604		
1,100.0	1,098.6	1,090.5	1,088.8	2.0	2.1	51.09	-14.2	-104.6	79.0	75.2	3.89	20.327		
1,200.0	1,197.9	1,189.0	1,186.5	2.3	2.3	53.78	-17.4	-116.8	83.9	79.6	4.31	19.465		
1,300.0	1,297.3	1,287.4	1,283.9	2.5	2.6	55.68	-21.0	-130.7	90.4	85.6	4.74	19.053		
1,400.0	1,396.6	1,385.7	1,380.8	2.8	2.9	56.85	-25.0	-146.2	98.5	93.3	5.19	18.978	SF	
1,500.0	1,496.0	1,484.7	1,478.3	3.0	3.2	57.50	-29.4	-163.0	107.7	102.1	5.64	19.101		
1,600.0	1,595.3	1,584.3	1,576.3	3.3	3.6	58.03	-33.9	-180.0	117.1	111.0	6.10	19.196		
1,700.0	1,694.7	1,683.8	1,674.3	3.5	3.9	58.49	-38.3	-197.1	126.5	119.9	6.57	19.264		
1,800.0	1,794.0	1,783.4	1,772.3	3.8	4.2	58.88	-42.8	-214.1	135.9	128.8	7.04	19.311		
1,900.0	1,893.3	1,883.0	1,870.3	4.0	4.6	59.22	-47.2	-231.1	145.3	137.8	7.51	19.343		
2,000.0	1,992.7	1,982.5	1,968.3	4.3	4.9	59.51	-51.7	-248.1	154.7	146.7	7.99	19.364		
2,100.0	2,092.0	2,082.1	2,066.3	4.6	5.3	59.78	-56.1	-265.2	164.1	155.6	8.47	19.377		
2,200.0	2,191.4	2,181.6	2,164.2	4.8	5.6	60.01	-60.6	-282.2	173.5	164.5	8.95	19.384		
2,300.0	2,290.7	2,281.2	2,262.2	5.1	5.9	60.22	-65.0	-299.2	182.9	173.5	9.43	19.386		
2,400.0	2,390.0	2,380.7	2,360.2	5.3	6.3	60.41	-69.5	-316.2	192.3	182.4	9.92	19.386		
2,500.0	2,489.4	2,480.3	2,458.2	5.6	6.6	60.59	-73.9	-333.3	201.7	191.3	10.41	19.382		
2,600.0	2,588.7	2,579.8	2,556.2	5.9	7.0	60.74	-78.4	-350.3	211.1	200.2	10.90	19.377		
2,700.0	2,688.1	2,679.4	2,654.2	6.1	7.3	60.89	-82.8	-367.3	220.5	209.2	11.39	19.371		
2,800.0	2,787.4	2,778.9	2,752.2	6.4	7.7	61.02	-87.3	-384.3	230.0	218.1	11.88	19.364		
2,900.0	2,886.7	2,878.5	2,850.2	6.7	8.0	61.14	-91.7	-401.4	239.4	227.0	12.37	19.355		
3,000.0	2,986.1	2,978.0	2,948.1	6.9	8.4	61.26	-96.2	-418.4	248.8	235.9	12.86	19.347		
3,100.0	3,085.4	3,077.6	3,046.1	7.2	8.8	61.36	-100.6	-435.4	258.2	244.9	13.35	19.338		
3,200.0	3,184.8	3,177.2	3,144.1	7.5	9.1	61.46	-105.1	-452.4	267.6	253.8	13.85	19.329		
3,300.0	3,284.1	3,276.7	3,242.1	7.7	9.5	61.55	-109.5	-469.4	277.1	262.7	14.34	19.320		
3,400.0	3,383.4	3,376.3	3,340.1	8.0	9.8	61.63	-114.0	-486.5	286.5	271.6	14.84	19.311		
3,500.0	3,482.8	3,475.8	3,438.1	8.2	10.2	61.71	-118.4	-503.5	295.9	280.6	15.33	19.301		
3,600.0	3,582.1	3,575.4	3,536.1	8.5	10.5	61.78	-122.9	-520.5	305.3	289.5	15.83	19.292		
3,700.0	3,681.5	3,674.9	3,634.0	8.8	10.9	61.85	-127.3	-537.5	314.8	298.4	16.32	19.283		
3,800.0	3,780.8	3,774.5	3,732.0	9.0	11.2	61.92	-131.8	-554.6	324.2	307.4	16.82	19.275		
3,900.0	3,880.1	3,874.0	3,830.0	9.3	11.6	61.98	-136.2	-571.6	333.6	316.3	17.32	19.266		
4,000.0	3,979.5	3,973.6	3,928.0	9.6	11.9	62.04	-140.7	-588.6	343.0	325.2	17.81	19.258		
4,100.0	4,078.8	4,073.1	4,026.0	9.8	12.3	62.10	-145.1	-605.6	352.4	334.1	18.31	19.249		
4,200.0	4,178.2	4,172.7	4,124.0	10.1	12.6	62.15	-149.6	-622.7	361.9	343.1	18.81	19.241		
4,300.0	4,277.5	4,272.3	4,222.0	10.4	13.0	62.20	-154.0	-639.7	371.3	352.0	19.30	19.234		
4,400.0	4,376.8	4,371.8	4,320.0	10.6	13.4	62.25	-158.5	-656.7	380.7	360.9	19.80	19.226		
4,500.0	4,476.2	4,471.4	4,417.9	10.9	13.7	62.29	-162.9	-673.7	390.2	369.9	20.30	19.218		
4,600.0	4,575.5	4,570.9	4,515.9	11.2	14.1	62.33	-167.4	-690.8	399.6	378.8	20.80	19.211		
4,700.0	4,674.9	4,670.5	4,613.9	11.4	14.4	62.37	-171.8	-707.8	409.0	387.7	21.30	19.204		
4,800.0	4,774.2	4,770.0	4,711.9	11.7	14.8	62.41	-176.3	-724.8	418.4	396.6	21.80	19.197		
4,900.0	4,873.5	4,869.6	4,809.9	12.0	15.1	62.45	-180.7	-741.8	427.9	405.6	22.30	19.191		
5,000.0	4,972.9	4,969.1	4,907.9	12.2	15.5	62.49	-185.2	-758.8	437.3	414.5	22.79	19.184		
5,100.0	5,072.2	5,068.7	5,005.9	12.5	15.8	62.52	-189.6	-775.9	446.7	423.4	23.29	19.178		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,171.6	5,168.2	5,103.9	12.7	16.2	62.55	-194.1	-792.9	456.1	432.3	23.79	19.172	
5,300.0	5,270.9	5,267.8	5,201.8	13.0	16.6	62.59	-198.5	-809.9	465.6	441.3	24.29	19.166	
5,400.0	5,370.3	5,367.4	5,299.8	13.3	16.9	62.62	-203.0	-826.9	475.0	450.2	24.79	19.160	
5,500.0	5,469.6	5,466.9	5,397.8	13.5	17.3	62.64	-207.4	-844.0	484.4	459.1	25.29	19.154	
5,600.0	5,568.9	5,566.5	5,495.8	13.8	17.6	62.67	-211.9	-861.0	493.9	468.1	25.79	19.149	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3D-32H-K268 - 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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-58.8	58.8					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-58.8	58.8	58.5	0.30	194.436		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-58.8	58.8	58.1	0.65	90.248		
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-58.8	58.8	57.8	1.00	58.748		
400.0	400.0	399.0	399.0	0.7	0.7	-90.00	0.0	-58.8	58.8	57.4	1.35	43.548		
500.0	500.0	499.0	499.0	0.9	0.8	43.48	0.0	-58.8	58.6	56.9	1.70	34.504		
600.0	600.0	598.0	598.0	1.0	1.0	44.79	0.1	-59.6	58.2	56.1	2.05	28.435		
628.7	628.7	626.4	626.4	1.1	1.1	45.43	0.2	-60.1	58.2	56.0	2.15	27.094 CC		
700.0	699.9	697.0	696.9	1.2	1.2	47.52	0.5	-62.1	58.3	55.9	2.40	24.339 ES		
800.0	799.8	795.9	795.7	1.4	1.4	51.58	1.2	-66.3	59.2	56.5	2.75	21.522		
900.0	899.5	894.7	894.3	1.6	1.6	56.73	2.2	-72.2	61.2	58.0	3.12	19.620		
1,000.0	999.2	993.3	992.7	1.8	1.8	62.63	3.4	-79.7	64.5	61.0	3.50	18.416		
1,100.0	1,098.6	1,091.8	1,090.7	2.0	2.0	68.81	4.9	-88.9	69.4	65.5	3.91	17.749		
1,200.0	1,197.9	1,190.8	1,189.2	2.3	2.2	74.52	6.7	-99.5	76.1	71.8	4.34	17.540		
1,300.0	1,297.3	1,290.3	1,288.0	2.5	2.4	79.25	8.5	-110.4	83.6	78.9	4.79	17.475		
1,400.0	1,396.6	1,389.8	1,386.9	2.8	2.7	83.18	10.3	-121.2	91.6	86.4	5.24	17.474		
1,500.0	1,496.0	1,489.3	1,485.8	3.0	2.9	86.47	12.1	-132.1	100.0	94.3	5.71	17.510		
1,600.0	1,595.3	1,588.8	1,584.7	3.3	3.2	89.24	13.8	-143.0	108.6	102.4	6.18	17.568		
1,700.0	1,694.7	1,688.3	1,683.6	3.5	3.4	91.60	15.6	-153.8	117.4	110.8	6.66	17.637		
1,800.0	1,794.0	1,787.8	1,782.5	3.8	3.7	93.63	17.4	-164.7	126.5	119.3	7.14	17.712		
1,900.0	1,893.3	1,887.3	1,881.4	4.0	3.9	95.39	19.2	-175.5	135.6	128.0	7.62	17.789		
2,000.0	1,992.7	1,986.8	1,980.3	4.3	4.2	96.93	21.0	-186.4	144.9	136.8	8.11	17.866		
2,100.0	2,092.0	2,086.3	2,079.2	4.6	4.4	98.28	22.8	-197.3	154.2	145.6	8.60	17.941		
2,200.0	2,191.4	2,185.8	2,178.1	4.8	4.7	99.47	24.5	-208.1	163.6	154.6	9.08	18.014		
2,300.0	2,290.7	2,285.3	2,276.9	5.1	4.9	100.54	26.3	-219.0	173.1	163.6	9.57	18.084		
2,400.0	2,390.0	2,384.8	2,375.8	5.3	5.2	101.49	28.1	-229.8	182.7	172.6	10.06	18.151		
2,500.0	2,489.4	2,484.3	2,474.7	5.6	5.4	102.35	29.9	-240.7	192.3	181.7	10.55	18.215		
2,600.0	2,588.7	2,583.8	2,573.6	5.9	5.7	103.13	31.7	-251.6	201.9	190.8	11.05	18.276		
2,700.0	2,688.1	2,683.3	2,672.5	6.1	6.0	103.84	33.5	-262.4	211.5	200.0	11.54	18.334		
2,800.0	2,787.4	2,782.8	2,771.4	6.4	6.2	104.48	35.2	-273.3	221.2	209.2	12.03	18.389		
2,900.0	2,886.7	2,882.3	2,870.3	6.7	6.5	105.07	37.0	-284.1	230.9	218.4	12.52	18.441		
3,000.0	2,986.1	2,981.8	2,969.2	6.9	6.7	105.62	38.8	-295.0	240.7	227.7	13.02	18.491		
3,100.0	3,085.4	3,081.3	3,068.1	7.2	7.0	106.12	40.6	-305.9	250.4	236.9	13.51	18.538		
3,200.0	3,184.8	3,180.8	3,166.9	7.5	7.2	106.58	42.4	-316.7	260.2	246.2	14.00	18.583		
3,300.0	3,284.1	3,280.3	3,265.8	7.7	7.5	107.01	44.2	-327.6	270.0	255.5	14.50	18.625		
3,400.0	3,383.4	3,379.8	3,364.7	8.0	7.8	107.41	46.0	-338.4	279.8	264.8	14.99	18.666		
3,500.0	3,482.8	3,479.3	3,463.6	8.2	8.0	107.78	47.7	-349.3	289.6	274.1	15.48	18.705		
3,600.0	3,582.1	3,578.8	3,562.5	8.5	8.3	108.13	49.5	-360.2	299.4	283.5	15.98	18.742		
3,700.0	3,681.5	3,678.3	3,661.4	8.8	8.5	108.46	51.3	-371.0	309.3	292.8	16.47	18.777		
3,800.0	3,780.8	3,777.8	3,760.3	9.0	8.8	108.76	53.1	-381.9	319.1	302.2	16.97	18.810		
3,900.0	3,880.1	3,877.3	3,859.2	9.3	9.0	109.05	54.9	-392.7	329.0	311.5	17.46	18.842		
4,000.0	3,979.5	3,976.8	3,958.1	9.6	9.3	109.32	56.7	-403.6	338.8	320.9	17.95	18.873		
4,100.0	4,078.8	4,076.3	4,057.0	9.8	9.6	109.58	58.4	-414.4	348.7	330.3	18.45	18.902		
4,200.0	4,178.2	4,175.8	4,155.8	10.1	9.8	109.82	60.2	-425.3	358.6	339.6	18.94	18.930		
4,300.0	4,277.5	4,275.3	4,254.7	10.4	10.1	110.05	62.0	-436.2	368.5	349.0	19.44	18.957		
4,400.0	4,376.8	4,374.8	4,353.6	10.6	10.3	110.26	63.8	-447.0	378.4	358.4	19.93	18.983		
4,500.0	4,476.2	4,474.3	4,452.5	10.9	10.6	110.47	65.6	-457.9	388.3	367.8	20.43	19.008		
4,600.0	4,575.5	4,573.8	4,551.4	11.2	10.9	110.67	67.4	-468.7	398.1	377.2	20.92	19.032		
4,700.0	4,674.9	4,673.3	4,650.3	11.4	11.1	110.85	69.2	-479.6	408.1	386.6	21.41	19.055		
4,800.0	4,774.2	4,772.8	4,749.2	11.7	11.4	111.03	70.9	-490.5	418.0	396.0	21.91	19.077		
4,900.0	4,873.5	4,872.3	4,848.1	12.0	11.6	111.20	72.7	-501.3	427.9	405.5	22.40	19.098		
5,000.0	4,972.9	4,971.8	4,947.0	12.2	11.9	111.36	74.5	-512.2	437.8	414.9	22.90	19.118		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3D-32H-K268 - 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)				
5,100.0	5,072.2	5,071.3	5,045.9	12.5	12.2	111.51	76.3	-523.0	447.7	424.3	23.39	19.138		
5,200.0	5,171.6	5,170.8	5,144.7	12.7	12.4	111.66	78.1	-533.9	457.6	433.7	23.89	19.157		
5,300.0	5,270.9	5,270.3	5,243.6	13.0	12.7	111.80	79.9	-544.8	467.5	443.2	24.38	19.175		
5,400.0	5,370.3	5,369.8	5,342.5	13.3	12.9	111.94	81.6	-555.6	477.5	452.6	24.88	19.193		
5,500.0	5,469.6	5,469.3	5,441.4	13.5	13.2	112.07	83.4	-566.5	487.4	462.0	25.37	19.210		
5,600.0	5,568.9	5,568.8	5,540.3	13.8	13.4	112.19	85.2	-577.3	497.3	471.5	25.87	19.226		
7,300.0	7,213.4	7,527.1	7,441.2	16.7	18.4	-84.17	-58.5	-783.0	415.0	388.1	26.84	15.459		
7,400.0	7,276.9	7,508.9	7,428.3	16.5	18.3	-93.74	-45.8	-781.8	335.3	309.1	26.12	12.833		
7,500.0	7,326.1	7,475.5	7,403.5	16.4	18.2	-94.77	-23.5	-779.5	270.1	244.1	25.98	10.397		
7,600.0	7,359.5	7,435.8	7,372.5	16.4	18.1	-90.04	1.1	-776.5	229.8	203.6	26.17	8.781		
7,665.2	7,372.3	7,408.1	7,349.9	16.5	18.1	-84.42	16.9	-774.3	221.9	195.6	26.33	8.428 SF		
7,700.0	7,376.1	7,392.9	7,337.2	16.6	18.0	-80.73	25.1	-773.0	224.1	197.8	26.33	8.510		
7,800.0	7,378.0	7,350.0	7,300.2	17.0	17.9	-70.37	46.5	-769.4	251.5	225.3	26.20	9.601		
7,900.0	7,378.0	7,315.8	7,269.5	17.5	17.9	-63.16	61.5	-766.3	304.3	278.2	26.06	11.677		
8,000.0	7,378.0	7,288.6	7,244.7	18.2	17.8	-57.77	72.0	-763.7	373.4	347.3	26.03	14.342		
8,100.0	7,378.0	7,266.8	7,224.3	19.0	17.8	-53.69	79.7	-761.6	452.1	426.0	26.15	17.292		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-94.66	-3.7	-44.8	44.9					
100.0	100.0	100.0	100.0	0.2	0.2	-94.66	-3.7	-44.8	44.9	44.6	0.30	147.890		
200.0	200.0	200.0	200.0	0.3	0.3	-94.66	-3.7	-44.8	44.9	44.3	0.65	68.805		
300.0	300.0	300.0	300.0	0.5	0.5	-94.66	-3.7	-44.8	44.9	43.9	1.00	44.831		
400.0	400.0	400.0	400.0	0.7	0.7	-94.66	-3.7	-44.8	44.9	43.6	1.35	33.247		
500.0	500.0	500.0	500.0	0.9	0.8	38.85	-3.7	-44.8	44.7	43.0	1.70	26.320		
600.0	600.0	600.0	600.0	1.0	1.0	40.31	-3.7	-44.8	43.4	41.3	2.05	21.176		
700.0	699.9	699.3	699.3	1.2	1.2	43.93	-3.3	-45.6	41.6	39.2	2.40	17.335		
800.0	799.8	798.5	798.4	1.4	1.4	50.43	-2.3	-47.9	40.5	37.7	2.76	14.694		
837.4	837.1	835.5	835.5	1.5	1.4	53.59	-1.8	-49.2	40.4	37.5	2.89	13.961 CC, ES		
900.0	899.5	897.7	897.6	1.6	1.6	59.62	-0.7	-51.8	40.7	37.6	3.12	13.021		
1,000.0	999.2	997.4	997.2	1.8	1.7	70.71	1.2	-56.2	41.8	38.3	3.51	11.890		
1,100.0	1,098.6	1,097.0	1,096.6	2.0	1.9	83.08	3.0	-60.6	44.1	40.2	3.93	11.227		
1,200.0	1,197.9	1,196.4	1,195.9	2.3	2.1	94.97	4.9	-64.9	48.3	44.0	4.35	11.116		
1,300.0	1,297.3	1,295.9	1,295.3	2.5	2.3	104.62	6.7	-69.3	54.3	49.5	4.76	11.403		
1,400.0	1,396.6	1,395.3	1,394.6	2.8	2.5	112.22	8.6	-73.6	61.5	56.3	5.17	11.900		
1,500.0	1,496.0	1,494.7	1,493.9	3.0	2.7	118.15	10.4	-78.0	69.5	64.0	5.57	12.494		
1,600.0	1,595.3	1,594.2	1,593.3	3.3	2.9	122.82	12.3	-82.3	78.2	72.2	5.96	13.117		
1,700.0	1,694.7	1,693.6	1,692.6	3.5	3.0	126.54	14.1	-86.7	87.2	80.8	6.35	13.735		
1,800.0	1,794.0	1,793.1	1,791.9	3.8	3.2	129.56	16.0	-91.0	96.5	89.8	6.74	14.331		
1,900.0	1,893.3	1,892.5	1,891.3	4.0	3.4	132.04	17.8	-95.4	106.1	98.9	7.12	14.895		
2,000.0	1,992.7	1,992.0	1,990.6	4.3	3.6	134.11	19.7	-99.7	115.8	108.3	7.51	15.424		
2,100.0	2,092.0	2,091.4	2,089.9	4.6	3.8	135.85	21.5	-104.1	125.6	117.7	7.89	15.919		
2,200.0	2,191.4	2,190.9	2,189.3	4.8	4.0	137.34	23.4	-108.4	135.6	127.3	8.28	16.380		
2,300.0	2,290.7	2,290.3	2,288.6	5.1	4.2	138.63	25.2	-112.8	145.6	136.9	8.66	16.810		
2,400.0	2,390.0	2,389.8	2,388.0	5.3	4.4	139.75	27.0	-117.1	155.7	146.6	9.05	17.211		
2,500.0	2,489.4	2,489.2	2,487.3	5.6	4.6	140.74	28.9	-121.5	165.8	156.4	9.43	17.584		
2,600.0	2,588.7	2,588.7	2,586.6	5.9	4.8	141.61	30.7	-125.8	176.0	166.2	9.81	17.933		
2,700.0	2,688.1	2,688.1	2,686.0	6.1	5.0	142.38	32.6	-130.2	186.2	176.0	10.20	18.259		
2,800.0	2,787.4	2,787.6	2,785.3	6.4	5.1	143.08	34.4	-134.6	196.4	185.9	10.58	18.564		
2,900.0	2,886.7	2,887.0	2,884.6	6.7	5.3	143.70	36.3	-138.9	206.7	195.7	10.97	18.850		
3,000.0	2,986.1	2,986.5	2,984.0	6.9	5.5	144.27	38.1	-143.3	217.0	205.7	11.35	19.119		
3,100.0	3,085.4	3,085.9	3,083.3	7.2	5.7	144.79	40.0	-147.6	227.3	215.6	11.73	19.372		
3,200.0	3,184.8	3,185.3	3,182.6	7.5	5.9	145.26	41.8	-152.0	237.6	225.5	12.12	19.610		
3,300.0	3,284.1	3,284.8	3,282.0	7.7	6.1	145.69	43.7	-156.3	248.0	235.5	12.50	19.834		
3,400.0	3,383.4	3,384.2	3,381.3	8.0	6.3	146.09	45.5	-160.7	258.3	245.4	12.89	20.046		
3,500.0	3,482.8	3,483.7	3,480.6	8.2	6.5	146.45	47.3	-165.0	268.7	255.4	13.27	20.247		
3,600.0	3,582.1	3,583.1	3,580.0	8.5	6.7	146.79	49.2	-169.4	279.1	265.4	13.66	20.436		
3,700.0	3,681.5	3,682.6	3,679.3	8.8	6.9	147.11	51.0	-173.7	289.5	275.4	14.04	20.617		
3,800.0	3,780.8	3,782.0	3,778.6	9.0	7.1	147.40	52.9	-178.1	299.9	285.4	14.42	20.788		
3,900.0	3,880.1	3,881.5	3,878.0	9.3	7.3	147.67	54.7	-182.4	310.3	295.4	14.81	20.950		
4,000.0	3,979.5	3,980.9	3,977.3	9.6	7.4	147.93	56.6	-186.8	320.7	305.5	15.19	21.105		
4,100.0	4,078.8	4,080.4	4,076.6	9.8	7.6	148.17	58.4	-191.1	331.1	315.5	15.58	21.253		
4,200.0	4,178.2	4,179.8	4,176.0	10.1	7.8	148.39	60.3	-195.5	341.5	325.5	15.96	21.393		
4,300.0	4,277.5	4,279.3	4,275.3	10.4	8.0	148.60	62.1	-199.8	351.9	335.6	16.35	21.528		
4,400.0	4,376.8	4,378.7	4,374.6	10.6	8.2	148.80	64.0	-204.2	362.3	345.6	16.73	21.656		
4,500.0	4,476.2	4,478.2	4,474.0	10.9	8.4	148.99	65.8	-208.6	372.8	355.7	17.12	21.779		
4,600.0	4,575.5	4,577.6	4,573.3	11.2	8.6	149.17	67.7	-212.9	383.2	365.7	17.50	21.897		
4,700.0	4,674.9	4,677.1	4,672.7	11.4	8.8	149.34	69.5	-217.3	393.6	375.8	17.89	22.009		
4,800.0	4,774.2	4,776.5	4,772.0	11.7	9.0	149.50	71.3	-221.6	404.1	385.8	18.27	22.118		
4,900.0	4,873.5	4,876.0	4,871.3	12.0	9.2	149.65	73.2	-226.0	414.5	395.9	18.65	22.221		
5,000.0	4,972.9	4,975.4	4,970.7	12.2	9.4	149.79	75.0	-230.3	425.0	405.9	19.04	22.321		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - 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	5,072.2	5,074.8	5,070.0	12.5	9.6	149.93	76.9	-234.7	435.4	416.0	19.42	22.417		
5,200.0	5,171.6	5,174.3	5,169.3	12.7	9.7	150.06	78.7	-239.0	445.9	426.1	19.81	22.510		
5,300.0	5,270.9	5,273.7	5,268.7	13.0	9.9	150.19	80.6	-243.4	456.3	436.1	20.19	22.598		
5,400.0	5,370.3	5,373.2	5,368.0	13.3	10.1	150.31	82.4	-247.7	466.8	446.2	20.58	22.684		
5,500.0	5,469.6	5,472.6	5,467.3	13.5	10.3	150.42	84.3	-252.1	477.3	456.3	20.96	22.767		
5,600.0	5,568.9	5,572.1	5,566.7	13.8	10.5	150.53	86.1	-256.4	487.7	466.4	21.35	22.846		
5,700.0	5,668.3	5,671.5	5,666.0	14.1	10.7	150.63	88.0	-260.8	498.2	476.4	21.73	22.923		
7,000.0	6,958.4	7,681.4	7,377.2	17.2	16.4	128.96	-432.9	-335.8	457.5	425.4	32.11	14.245		
7,100.0	7,051.7	7,615.6	7,369.9	17.1	15.7	121.63	-367.6	-335.5	374.8	344.0	30.81	12.165		
7,200.0	7,137.6	7,558.4	7,357.4	16.9	15.3	116.13	-311.8	-334.9	302.0	272.6	29.42	10.266		
7,300.0	7,213.4	7,504.2	7,340.6	16.7	14.9	108.87	-260.3	-334.2	246.2	218.1	28.10	8.759		
7,400.0	7,276.9	7,451.4	7,319.6	16.5	14.5	98.79	-211.9	-333.2	217.0	190.0	27.07	8.016		
7,437.1	7,296.9	7,432.1	7,310.8	16.4	14.4	94.34	-194.6	-332.9	214.7	187.9	26.79	8.015 SF		
7,500.0	7,326.1	7,400.0	7,295.0	16.4	14.2	86.22	-166.8	-332.2	221.0	194.8	26.25	8.420		
7,600.0	7,359.5	7,350.0	7,267.3	16.4	14.0	72.68	-125.2	-331.0	252.1	226.9	25.19	10.008		
7,700.0	7,376.1	7,300.0	7,236.0	16.6	13.8	60.07	-86.2	-329.6	297.9	274.2	23.68	12.579		
7,800.0	7,378.0	7,250.0	7,201.5	17.0	13.6	51.99	-50.1	-328.1	350.2	327.6	22.59	15.499		
7,900.0	7,378.0	7,200.0	7,163.9	17.5	13.5	46.74	-17.1	-326.4	411.7	389.6	22.06	18.658		
8,000.0	7,378.0	7,168.0	7,138.4	18.2	13.4	43.66	2.2	-325.3	481.0	458.9	22.03	21.837		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3F-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-39.2	39.2					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-39.2	39.2	38.9	0.30	128.976		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-39.2	39.2	38.5	0.65	60.005		
300.0	300.0	300.0	300.0	0.5	0.5	-90.01	0.0	-39.2	39.2	38.2	1.00	39.097		
400.0	400.0	400.0	400.0	0.7	0.7	-90.01	0.0	-39.2	39.2	37.8	1.35	28.995		
500.0	500.0	500.0	500.0	0.9	0.8	43.55	0.0	-39.2	39.0	37.3	1.70	22.948		
600.0	600.0	600.0	600.0	1.0	1.0	45.38	0.0	-39.2	37.8	35.7	2.05	18.426		
700.0	699.9	699.9	699.9	1.2	1.2	49.42	0.0	-39.2	35.4	33.0	2.40	14.741		
800.0	799.8	799.8	799.8	1.4	1.4	56.52	0.0	-39.2	32.2	29.5	2.76	11.681		
900.0	899.5	899.5	899.5	1.6	1.5	68.11	0.0	-39.2	29.0	25.8	3.13	9.249		
1,000.0	999.2	999.2	999.2	1.8	1.7	85.52	0.0	-39.2	27.0	23.4	3.53	7.645		
1,021.7	1,020.7	1,020.7	1,020.7	1.9	1.8	90.01	0.0	-39.2	26.9	23.3	3.61	7.436 CC, ES		
1,100.0	1,098.6	1,098.6	1,098.6	2.0	1.9	107.13	0.0	-39.2	28.1	24.2	3.92	7.180 SF		
1,200.0	1,197.9	1,197.9	1,197.9	2.3	2.1	126.19	0.0	-39.2	33.4	29.1	4.27	7.816		
1,300.0	1,297.3	1,297.3	1,297.3	2.5	2.2	139.13	0.0	-39.2	41.2	36.6	4.60	8.959		
1,400.0	1,396.6	1,396.6	1,396.6	2.8	2.4	147.66	0.0	-39.2	50.5	45.5	4.93	10.237		
1,500.0	1,496.0	1,496.0	1,496.0	3.0	2.6	153.47	0.0	-39.2	60.5	55.2	5.26	11.494		
1,600.0	1,595.3	1,595.3	1,595.3	3.3	2.8	157.61	0.0	-39.2	70.9	65.3	5.60	12.672		
1,700.0	1,694.7	1,694.7	1,694.7	3.5	2.9	160.67	0.0	-39.2	81.7	75.7	5.94	13.758		
1,800.0	1,794.0	1,794.0	1,794.0	3.8	3.1	163.02	0.0	-39.2	92.6	86.3	6.28	14.750		
1,900.0	1,893.3	1,893.3	1,893.3	4.0	3.3	164.87	0.0	-39.2	103.6	97.0	6.62	15.655		
2,000.0	1,992.7	1,992.7	1,992.7	4.3	3.5	166.36	0.0	-39.2	114.7	107.8	6.96	16.481		
2,100.0	2,092.0	2,092.0	2,092.0	4.6	3.6	167.59	0.0	-39.2	125.9	118.6	7.30	17.236		
2,200.0	2,191.4	2,191.4	2,191.4	4.8	3.8	168.62	0.0	-39.2	137.1	129.5	7.65	17.928		
2,300.0	2,290.7	2,290.7	2,290.7	5.1	4.0	169.50	0.0	-39.2	148.4	140.4	7.99	18.565		
2,400.0	2,390.0	2,390.0	2,390.0	5.3	4.1	170.25	0.0	-39.2	159.7	151.3	8.34	19.151		
2,500.0	2,489.4	2,489.4	2,489.4	5.6	4.3	170.90	0.0	-39.2	171.0	162.3	8.68	19.692		
2,600.0	2,588.7	2,588.7	2,588.7	5.9	4.5	171.47	0.0	-39.2	182.3	173.3	9.03	20.194		
2,700.0	2,688.1	2,688.1	2,688.1	6.1	4.7	171.97	0.0	-39.2	193.6	184.3	9.37	20.660		
2,800.0	2,787.4	2,787.4	2,787.4	6.4	4.8	172.42	0.0	-39.2	205.0	195.3	9.72	21.094		
2,900.0	2,886.7	2,886.7	2,886.7	6.7	5.0	172.82	0.0	-39.2	216.4	206.3	10.06	21.499		
3,000.0	2,986.1	2,986.1	2,986.1	6.9	5.2	173.18	0.0	-39.2	227.8	217.3	10.41	21.877		
3,100.0	3,085.4	3,085.4	3,085.4	7.2	5.4	173.51	0.0	-39.2	239.1	228.4	10.76	22.232		
3,200.0	3,184.8	3,184.8	3,184.8	7.5	5.5	173.80	0.0	-39.2	250.5	239.4	11.10	22.564		
3,300.0	3,284.1	3,284.1	3,284.1	7.7	5.7	174.07	0.0	-39.2	261.9	250.5	11.45	22.878		
3,400.0	3,383.4	3,383.4	3,383.4	8.0	5.9	174.32	0.0	-39.2	273.4	261.6	11.80	23.173		
3,500.0	3,482.8	3,482.8	3,482.8	8.2	6.1	174.55	0.0	-39.2	284.8	272.6	12.14	23.451		
3,600.0	3,582.1	3,582.1	3,582.1	8.5	6.2	174.76	0.0	-39.2	296.2	283.7	12.49	23.714		
3,700.0	3,681.5	3,681.5	3,681.5	8.8	6.4	174.95	0.0	-39.2	307.6	294.8	12.84	23.963		
3,800.0	3,780.8	3,780.8	3,780.8	9.0	6.6	175.14	0.0	-39.2	319.0	305.8	13.18	24.199		
3,900.0	3,880.1	3,880.1	3,880.1	9.3	6.7	175.30	0.0	-39.2	330.5	316.9	13.53	24.424		
4,000.0	3,979.5	3,979.5	3,979.5	9.6	6.9	175.46	0.0	-39.2	341.9	328.0	13.88	24.637		
4,100.0	4,078.8	4,078.8	4,078.8	9.8	7.1	175.57	0.5	-39.0	353.8	339.6	14.22	24.885		
4,200.0	4,178.2	4,178.2	4,178.2	10.1	7.3	175.58	2.3	-38.4	367.1	352.6	14.55	25.225		
4,300.0	4,277.5	4,277.5	4,277.5	10.4	7.4	175.51	5.5	-37.3	381.7	366.8	14.90	25.619		
4,400.0	4,376.8	4,376.8	4,376.8	10.6	7.6	175.43	8.8	-36.2	396.3	381.1	15.25	25.995		
4,500.0	4,476.2	4,476.2	4,476.2	10.9	7.8	175.37	12.1	-35.0	411.0	395.4	15.59	26.354		
4,600.0	4,575.5	4,575.5	4,575.5	11.2	7.9	175.30	15.4	-33.9	425.6	409.7	15.94	26.698		
4,700.0	4,674.9	4,674.9	4,674.9	11.4	8.1	175.25	18.7	-32.8	440.3	424.0	16.29	27.027		
4,800.0	4,774.2	4,774.2	4,774.2	11.7	8.3	175.19	22.0	-31.6	454.9	438.3	16.64	27.342		
4,900.0	4,873.5	4,873.5	4,873.5	12.0	8.5	175.14	25.3	-30.5	469.6	452.6	16.99	27.644		
5,000.0	4,972.9	4,972.9	4,972.9	12.2	8.6	175.09	28.6	-29.4	484.3	466.9	17.34	27.934		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3F-32H-K268 - 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	5,072.2	5,056.6	5,056.0	12.5	8.8	175.05	31.9	-28.2	498.9	481.2	17.68	28.213		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3G-32H-K268 - 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	0.0	0.0	0.0	0.0	-96.20	-3.6	-33.6	33.8					
100.0	100.0	100.0	100.0	0.2	0.2	-96.20	-3.6	-33.6	33.8	33.5	0.30	111.201		
200.0	200.0	200.0	200.0	0.3	0.3	-96.20	-3.6	-33.6	33.8	33.1	0.65	51.735		
300.0	300.0	300.0	300.0	0.5	0.5	-96.20	-3.6	-33.6	33.8	32.8	1.00	33.709		
400.0	400.0	400.0	400.0	0.7	0.7	-96.20	-3.6	-33.6	33.8	32.4	1.35	24.999		
500.0	500.0	500.0	500.0	0.9	0.8	37.36	-3.6	-33.6	33.6	31.9	1.70	19.764		
600.0	600.0	600.5	600.5	1.0	1.0	39.24	-3.6	-32.7	31.4	29.3	2.05	15.291		
700.0	699.9	700.9	700.8	1.2	1.2	44.01	-3.5	-30.1	26.1	23.7	2.40	10.868		
800.0	799.8	800.8	800.6	1.4	1.4	56.28	-3.3	-25.7	18.4	15.7	2.76	6.675		
900.0	899.5	900.2	899.9	1.6	1.6	91.83	-3.0	-20.9	12.2	9.0	3.15	3.856		
922.7	922.2	922.7	922.4	1.6	1.6	104.84	-3.0	-19.8	11.8	8.6	3.24	3.648	CC, ES, SF	
1,000.0	999.2	999.3	999.0	1.8	1.8	144.50	-2.8	-16.1	15.6	12.1	3.50	4.460		
1,100.0	1,098.6	1,098.3	1,097.8	2.0	1.9	167.46	-2.6	-11.3	27.5	23.7	3.82	7.201		
1,200.0	1,197.9	1,197.1	1,196.5	2.3	2.1	176.15	-2.3	-6.5	42.0	37.9	4.15	10.118		
1,300.0	1,297.3	1,295.9	1,295.2	2.5	2.3	-179.67	-2.1	-1.8	57.1	52.6	4.50	12.676		
1,400.0	1,396.6	1,394.7	1,393.9	2.8	2.5	-177.24	-1.9	3.0	72.3	67.4	4.85	14.895		
1,500.0	1,496.0	1,493.5	1,492.5	3.0	2.7	-175.66	-1.6	7.8	87.5	82.3	5.20	16.827		
1,600.0	1,595.3	1,592.3	1,591.2	3.3	2.9	-174.54	-1.4	12.6	102.9	97.3	5.55	18.520		
1,700.0	1,694.7	1,691.1	1,689.9	3.5	3.1	-173.72	-1.2	17.4	118.2	112.3	5.91	20.014		
1,800.0	1,794.0	1,789.9	1,788.6	3.8	3.3	-173.08	-1.0	22.2	133.6	127.3	6.26	21.341		
1,900.0	1,893.3	1,888.7	1,887.3	4.0	3.5	-172.58	-0.7	26.9	149.0	142.4	6.61	22.527		
2,000.0	1,992.7	1,987.5	1,986.0	4.3	3.6	-172.17	-0.5	31.7	164.4	157.4	6.97	23.594		
2,100.0	2,092.0	2,086.3	2,084.7	4.6	3.8	-171.83	-0.3	36.5	179.8	172.5	7.32	24.558		
2,200.0	2,191.4	2,185.1	2,183.3	4.8	4.0	-171.54	0.0	41.3	195.2	187.5	7.67	25.433		
2,300.0	2,290.7	2,283.9	2,282.0	5.1	4.2	-171.30	0.2	46.1	210.6	202.6	8.03	26.231		
2,400.0	2,390.0	2,382.7	2,380.7	5.3	4.4	-171.09	0.4	50.9	226.0	217.6	8.38	26.962		
2,500.0	2,489.4	2,481.5	2,479.4	5.6	4.6	-170.91	0.7	55.6	241.4	232.7	8.74	27.633		
2,600.0	2,588.7	2,580.3	2,578.1	5.9	4.8	-170.74	0.9	60.4	256.8	247.8	9.09	28.252		
2,700.0	2,688.1	2,679.1	2,676.8	6.1	5.0	-170.60	1.1	65.2	272.3	262.8	9.45	28.825		
2,800.0	2,787.4	2,777.9	2,775.5	6.4	5.2	-170.47	1.4	70.0	287.7	277.9	9.80	29.356		
2,900.0	2,886.7	2,876.7	2,874.1	6.7	5.4	-170.36	1.6	74.8	303.1	293.0	10.15	29.850		
3,000.0	2,986.1	2,975.5	2,972.8	6.9	5.6	-170.25	1.8	79.6	318.5	308.0	10.51	30.310		
3,100.0	3,085.4	3,074.3	3,071.5	7.2	5.7	-170.16	2.1	84.3	334.0	323.1	10.86	30.741		
3,200.0	3,184.8	3,173.1	3,170.2	7.5	5.9	-170.07	2.3	89.1	349.4	338.2	11.22	31.144		
3,300.0	3,284.1	3,271.9	3,268.9	7.7	6.1	-170.00	2.5	93.9	364.8	353.2	11.57	31.523		
3,400.0	3,383.4	3,370.7	3,367.6	8.0	6.3	-169.92	2.7	98.7	380.2	368.3	11.93	31.879		
3,500.0	3,482.8	3,469.5	3,466.3	8.2	6.5	-169.86	3.0	103.5	395.7	383.4	12.28	32.214		
3,600.0	3,582.1	3,568.3	3,564.9	8.5	6.7	-169.79	3.2	108.3	411.1	398.5	12.64	32.530		
3,700.0	3,681.5	3,667.1	3,663.6	8.8	6.9	-169.74	3.4	113.0	426.5	413.5	12.99	32.830		
3,800.0	3,780.8	3,765.9	3,762.3	9.0	7.1	-169.68	3.7	117.8	442.0	428.6	13.35	33.113		
3,900.0	3,880.1	3,864.7	3,861.0	9.3	7.3	-169.63	3.9	122.6	457.4	443.7	13.70	33.381		
4,000.0	3,979.5	3,963.5	3,959.7	9.6	7.5	-169.59	4.1	127.4	472.8	458.8	14.06	33.636		
4,100.0	4,078.8	4,062.3	4,058.4	9.8	7.7	-169.54	4.4	132.2	488.3	473.8	14.41	33.879		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3H-32H-K268 - 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	0.0	0.0	0.0	0.0	-90.01	0.0	-28.0	28.0					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-28.0	28.0	27.7	0.30	92.126		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-28.0	28.0	27.3	0.65	42.861		
300.0	300.0	300.0	300.0	0.5	0.5	-90.01	0.0	-28.0	28.0	27.0	1.00	27.927		
400.0	400.0	400.2	400.2	0.7	0.7	-89.97	0.0	-27.8	27.8	26.4	1.35	20.542		
500.0	500.0	500.7	500.7	0.9	0.9	44.01	0.1	-26.0	25.9	24.2	1.70	15.198		
600.0	600.0	601.0	600.9	1.0	1.0	48.20	0.4	-22.5	21.2	19.1	2.05	10.317		
700.0	699.9	700.9	700.7	1.2	1.2	62.45	0.8	-17.3	14.1	11.7	2.41	5.848		
794.1	793.9	794.5	794.1	1.4	1.4	112.06	1.3	-10.8	9.0	6.3	2.79	3.242 CC, ES		
800.0	799.8	800.4	799.9	1.4	1.4	116.92	1.4	-10.3	9.1	6.3	2.81	3.227 SF		
900.0	899.5	899.2	898.4	1.6	1.6	171.35	2.0	-1.8	18.0	14.9	3.14	5.739		
1,000.0	999.2	997.4	996.0	1.8	1.9	-173.81	2.8	8.3	34.7	31.2	3.47	9.994		
1,100.0	1,098.6	1,095.4	1,093.5	2.0	2.1	-168.86	3.6	18.8	54.2	50.4	3.82	14.187		
1,200.0	1,197.9	1,193.2	1,190.7	2.3	2.3	-166.72	4.4	29.2	74.8	70.7	4.18	17.921		
1,300.0	1,297.3	1,291.0	1,288.0	2.5	2.6	-165.52	5.2	39.6	95.5	91.0	4.54	21.068		
1,400.0	1,396.6	1,388.9	1,385.3	2.8	2.8	-164.74	6.1	50.0	116.3	111.4	4.89	23.754		
1,500.0	1,496.0	1,486.7	1,482.5	3.0	3.1	-164.20	6.9	60.5	137.0	131.8	5.26	26.069		
1,600.0	1,595.3	1,584.5	1,579.8	3.3	3.3	-163.80	7.7	70.9	157.8	152.1	5.62	28.085		
1,700.0	1,694.7	1,682.3	1,677.0	3.5	3.5	-163.49	8.5	81.3	178.5	172.5	5.98	29.855		
1,800.0	1,794.0	1,780.1	1,774.3	3.8	3.8	-163.25	9.3	91.7	199.3	192.9	6.34	31.421		
1,900.0	1,893.3	1,878.0	1,871.6	4.0	4.0	-163.05	10.1	102.1	220.0	213.3	6.70	32.816		
2,000.0	1,992.7	1,975.8	1,968.8	4.3	4.3	-162.89	10.9	112.6	240.8	233.7	7.07	34.067		
2,100.0	2,092.0	2,073.6	2,066.1	4.6	4.5	-162.75	11.7	123.0	261.6	254.1	7.43	35.194		
2,200.0	2,191.4	2,171.4	2,163.3	4.8	4.8	-162.63	12.5	133.4	282.3	274.5	7.80	36.215		
2,300.0	2,290.7	2,269.2	2,260.6	5.1	5.0	-162.53	13.3	143.8	303.1	294.9	8.16	37.144		
2,400.0	2,390.0	2,367.1	2,357.9	5.3	5.3	-162.44	14.1	154.2	323.9	315.3	8.52	37.994		
2,500.0	2,489.4	2,464.9	2,455.1	5.6	5.5	-162.37	15.0	164.6	344.6	335.7	8.89	38.773		
2,600.0	2,588.7	2,562.7	2,552.4	5.9	5.8	-162.30	15.8	175.1	365.4	356.1	9.25	39.490		
2,700.0	2,688.1	2,660.5	2,649.6	6.1	6.0	-162.24	16.6	185.5	386.2	376.5	9.62	40.152		
2,800.0	2,787.4	2,758.3	2,746.9	6.4	6.3	-162.18	17.4	195.9	406.9	396.9	9.98	40.766		
2,900.0	2,886.7	2,856.2	2,844.1	6.7	6.5	-162.13	18.2	206.3	427.7	417.3	10.35	41.336		
3,000.0	2,986.1	2,954.0	2,941.4	6.9	6.8	-162.09	19.0	216.7	448.5	437.7	10.71	41.867		
3,100.0	3,085.4	3,051.8	3,038.7	7.2	7.0	-162.05	19.8	227.2	469.2	458.2	11.08	42.363		
3,200.0	3,184.8	3,149.6	3,135.9	7.5	7.3	-162.01	20.6	237.6	490.0	478.6	11.44	42.826		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3I-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-104.61	-3.6	-14.0	14.5					
100.0	100.0	100.0	100.0	0.2	0.2	-104.61	-3.6	-14.0	14.5	14.2	0.30	47.602		
200.0	200.0	200.0	200.0	0.3	0.3	-104.61	-3.6	-14.0	14.5	13.8	0.65	22.147 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	-105.00	-4.0	-14.8	15.3	14.3	1.00	15.294		
400.0	400.0	399.4	399.4	0.7	0.7	-105.95	-4.9	-17.2	17.9	16.6	1.35	13.247		
500.0	500.0	499.0	498.9	0.9	0.9	26.55	-6.5	-21.2	22.1	20.4	1.70	12.985		
600.0	600.0	598.5	598.1	1.0	1.1	27.13	-8.7	-26.9	26.6	24.5	2.05	12.974 SF		
700.0	699.9	697.9	697.2	1.2	1.3	28.69	-11.6	-34.1	31.3	28.9	2.40	13.037		
800.0	799.8	797.1	796.1	1.4	1.5	30.82	-15.0	-42.9	36.2	33.4	2.75	13.149		
900.0	899.5	896.3	894.6	1.6	1.8	33.28	-19.1	-53.3	41.4	38.2	3.11	13.292		
1,000.0	999.2	995.4	992.9	1.8	2.0	35.91	-23.9	-65.3	46.9	43.4	3.49	13.447		
1,100.0	1,098.6	1,094.4	1,090.8	2.0	2.3	38.60	-29.2	-78.8	52.7	48.9	3.88	13.597		
1,200.0	1,197.9	1,193.2	1,188.2	2.3	2.6	40.87	-35.1	-93.9	59.6	55.3	4.29	13.884		
1,300.0	1,297.3	1,291.8	1,285.2	2.5	3.0	42.16	-41.7	-110.5	68.1	63.4	4.71	14.453		
1,400.0	1,396.6	1,390.1	1,381.6	2.8	3.4	42.70	-48.8	-128.6	78.2	73.1	5.13	15.236		
1,500.0	1,496.0	1,488.1	1,477.3	3.0	3.8	42.73	-56.5	-148.1	90.0	84.4	5.56	16.189		
1,600.0	1,595.3	1,585.7	1,572.2	3.3	4.2	42.41	-64.8	-169.1	103.3	97.3	5.98	17.281		
1,700.0	1,694.7	1,683.7	1,667.2	3.5	4.6	41.90	-73.6	-191.5	118.0	111.6	6.39	18.459		
1,800.0	1,794.0	1,782.6	1,763.0	3.8	5.1	41.48	-82.6	-214.3	132.9	126.1	6.81	19.518		
1,900.0	1,893.3	1,881.5	1,858.8	4.0	5.5	41.14	-91.6	-237.2	147.8	140.6	7.23	20.453		
2,000.0	1,992.7	1,980.3	1,954.6	4.3	6.0	40.86	-100.6	-260.0	162.7	155.1	7.65	21.284		
2,100.0	2,092.0	2,079.2	2,050.4	4.6	6.4	40.62	-109.6	-282.8	177.6	169.6	8.07	22.026		
2,200.0	2,191.4	2,178.1	2,146.2	4.8	6.9	40.43	-118.6	-305.6	192.6	184.1	8.49	22.693		
2,300.0	2,290.7	2,277.0	2,242.0	5.1	7.4	40.26	-127.6	-328.4	207.5	198.6	8.91	23.297		
2,400.0	2,390.0	2,375.8	2,337.8	5.3	7.8	40.11	-136.6	-351.2	222.4	213.1	9.33	23.844		
2,500.0	2,489.4	2,474.7	2,433.5	5.6	8.3	39.99	-145.5	-374.0	237.4	227.6	9.75	24.343		
2,600.0	2,588.7	2,573.6	2,529.3	5.9	8.8	39.88	-154.5	-396.8	252.3	242.1	10.17	24.800		
2,700.0	2,688.1	2,672.5	2,625.1	6.1	9.2	39.78	-163.5	-419.6	267.2	256.6	10.60	25.220		
2,800.0	2,787.4	2,771.4	2,720.9	6.4	9.7	39.69	-172.5	-442.4	282.2	271.2	11.02	25.607		
2,900.0	2,886.7	2,870.2	2,816.7	6.7	10.2	39.61	-181.5	-465.3	297.1	285.7	11.44	25.965		
3,000.0	2,986.1	2,969.1	2,912.5	6.9	10.6	39.53	-190.5	-488.1	312.1	300.2	11.87	26.297		
3,100.0	3,085.4	3,068.0	3,008.3	7.2	11.1	39.47	-199.5	-510.9	327.0	314.7	12.29	26.606		
3,200.0	3,184.8	3,166.9	3,104.1	7.5	11.6	39.41	-208.5	-533.7	341.9	329.2	12.71	26.893		
3,300.0	3,284.1	3,265.7	3,199.9	7.7	12.0	39.35	-217.5	-556.5	356.9	343.7	13.14	27.162		
3,400.0	3,383.4	3,364.6	3,295.6	8.0	12.5	39.30	-226.5	-579.3	371.8	358.2	13.56	27.414		
3,500.0	3,482.8	3,463.5	3,391.4	8.2	13.0	39.26	-235.5	-602.1	386.7	372.8	13.99	27.650		
3,600.0	3,582.1	3,562.4	3,487.2	8.5	13.4	39.21	-244.4	-624.9	401.7	387.3	14.41	27.872		
3,700.0	3,681.5	3,661.2	3,583.0	8.8	13.9	39.17	-253.4	-647.7	416.6	401.8	14.84	28.081		
3,800.0	3,780.8	3,760.1	3,678.8	9.0	14.4	39.14	-262.4	-670.5	431.6	416.3	15.26	28.278		
3,900.0	3,880.1	3,859.0	3,774.6	9.3	14.9	39.10	-271.4	-693.4	446.5	430.8	15.69	28.465		
4,000.0	3,979.5	3,957.9	3,870.4	9.6	15.3	39.07	-280.4	-716.2	461.4	445.3	16.11	28.641		
4,100.0	4,078.8	4,056.8	3,966.2	9.8	15.8	39.04	-289.4	-739.0	476.4	459.9	16.54	28.809		
4,200.0	4,178.2	4,155.6	4,062.0	10.1	16.3	39.01	-298.4	-761.8	491.3	474.4	16.96	28.967		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3J-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-8.4	8.4					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-8.4	8.4	8.1	0.30	27.638		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-8.4	8.4	7.7	0.65	12.858		
233.5	233.5	233.5	233.5	0.4	0.4	-90.00	0.0	-8.4	8.4	7.6	0.77	10.904	CC	
300.0	300.0	299.9	299.9	0.5	0.5	-90.66	-0.1	-8.6	8.6	7.6	1.00	8.574	ES	
400.0	400.0	399.8	399.8	0.7	0.7	-94.98	-0.9	-10.1	10.2	8.8	1.35	7.537	SF	
500.0	500.0	499.5	499.4	0.9	0.9	33.34	-2.5	-13.2	13.3	11.6	1.70	7.820		
600.0	600.0	599.2	599.0	1.0	1.0	31.44	-4.8	-17.9	16.8	14.8	2.05	8.219		
700.0	699.9	698.8	698.4	1.2	1.3	31.49	-7.9	-24.1	20.6	18.2	2.40	8.576		
800.0	799.8	798.4	797.5	1.4	1.5	32.59	-11.8	-31.8	24.5	21.8	2.76	8.899		
900.0	899.5	897.8	896.5	1.6	1.7	34.28	-16.5	-41.0	28.7	25.6	3.12	9.193		
1,000.0	999.2	997.2	995.1	1.8	2.0	36.31	-22.0	-51.8	33.1	29.6	3.50	9.459		
1,100.0	1,098.6	1,096.5	1,093.5	2.0	2.3	38.50	-28.2	-64.1	37.8	33.9	3.90	9.694		
1,200.0	1,197.9	1,195.7	1,191.4	2.3	2.6	40.18	-35.2	-77.9	43.3	39.0	4.31	10.047		
1,300.0	1,297.3	1,294.7	1,289.0	2.5	2.9	40.64	-42.9	-93.1	50.4	45.7	4.73	10.669		
1,400.0	1,396.6	1,393.5	1,385.9	2.8	3.2	40.30	-51.3	-109.9	59.1	54.0	5.14	11.504		
1,500.0	1,496.0	1,492.3	1,482.7	3.0	3.6	39.52	-60.5	-128.0	69.3	63.7	5.54	12.495		
1,600.0	1,595.3	1,591.8	1,579.9	3.3	4.0	38.83	-69.9	-146.6	79.8	73.8	5.95	13.407		
1,700.0	1,694.7	1,691.2	1,677.1	3.5	4.4	38.30	-79.3	-165.1	90.3	83.9	6.36	14.201		
1,800.0	1,794.0	1,790.7	1,774.4	3.8	4.8	37.88	-88.7	-183.7	100.8	94.0	6.77	14.898		
1,900.0	1,893.3	1,890.1	1,871.6	4.0	5.2	37.54	-98.1	-202.2	111.3	104.2	7.18	15.515		
2,000.0	1,992.7	1,989.6	1,968.9	4.3	5.6	37.26	-107.5	-220.8	121.9	114.3	7.59	16.064		
2,100.0	2,092.0	2,089.0	2,066.1	4.6	6.0	37.02	-116.9	-239.4	132.4	124.4	8.00	16.556		
2,200.0	2,191.4	2,188.4	2,163.3	4.8	6.4	36.82	-126.3	-257.9	142.9	134.5	8.41	16.999		
2,300.0	2,290.7	2,287.9	2,260.6	5.1	6.8	36.64	-135.7	-276.5	153.5	144.7	8.82	17.400		
2,400.0	2,390.0	2,387.3	2,357.8	5.3	7.2	36.49	-145.1	-295.1	164.0	154.8	9.23	17.765		
2,500.0	2,489.4	2,486.8	2,455.1	5.6	7.6	36.36	-154.4	-313.6	174.5	164.9	9.64	18.098		
2,600.0	2,588.7	2,586.2	2,552.3	5.9	8.0	36.24	-163.8	-332.2	185.1	175.0	10.06	18.403		
2,700.0	2,688.1	2,685.6	2,649.6	6.1	8.4	36.14	-173.2	-350.7	195.6	185.2	10.47	18.684		
2,800.0	2,787.4	2,785.1	2,746.8	6.4	8.8	36.04	-182.6	-369.3	206.2	195.3	10.88	18.943		
2,900.0	2,886.7	2,884.5	2,844.0	6.7	9.2	35.96	-192.0	-387.9	216.7	205.4	11.30	19.183		
3,000.0	2,986.1	2,984.0	2,941.3	6.9	9.6	35.88	-201.4	-406.4	227.2	215.5	11.71	19.406		
3,100.0	3,085.4	3,083.4	3,038.5	7.2	10.0	35.81	-210.8	-425.0	237.8	225.7	12.12	19.614		
3,200.0	3,184.8	3,182.9	3,135.8	7.5	10.4	35.74	-220.2	-443.5	248.3	235.8	12.54	19.807		
3,300.0	3,284.1	3,282.3	3,233.0	7.7	10.8	35.68	-229.6	-462.1	258.9	245.9	12.95	19.988		
3,400.0	3,383.4	3,381.7	3,330.3	8.0	11.2	35.63	-239.0	-480.7	269.4	256.0	13.37	20.158		
3,500.0	3,482.8	3,481.2	3,427.5	8.2	11.6	35.58	-248.4	-499.2	280.0	266.2	13.78	20.317		
3,600.0	3,582.1	3,580.6	3,524.7	8.5	12.0	35.53	-257.8	-517.8	290.5	276.3	14.19	20.467		
3,700.0	3,681.5	3,680.1	3,622.0	8.8	12.4	35.49	-267.1	-536.3	301.0	286.4	14.61	20.609		
3,800.0	3,780.8	3,779.5	3,719.2	9.0	12.8	35.45	-276.5	-554.9	311.6	296.6	15.02	20.742		
3,900.0	3,880.1	3,879.0	3,816.5	9.3	13.2	35.41	-285.9	-573.5	322.1	306.7	15.44	20.868		
4,000.0	3,979.5	3,978.4	3,913.7	9.6	13.7	35.37	-295.3	-592.0	332.7	316.8	15.85	20.988		
4,100.0	4,078.8	4,077.8	4,011.0	9.8	14.1	35.34	-304.7	-610.6	343.2	327.0	16.27	21.101		
4,200.0	4,178.2	4,177.3	4,108.2	10.1	14.5	35.31	-314.1	-629.1	353.8	337.1	16.68	21.209		
4,300.0	4,277.5	4,276.7	4,205.4	10.4	14.9	35.28	-323.5	-647.7	364.3	347.2	17.09	21.311		
4,400.0	4,376.8	4,376.2	4,302.7	10.6	15.3	35.25	-332.9	-666.3	374.8	357.3	17.51	21.408		
4,500.0	4,476.2	4,475.6	4,399.9	10.9	15.7	35.22	-342.3	-684.8	385.4	367.5	17.92	21.501		
4,600.0	4,575.5	4,575.1	4,497.2	11.2	16.1	35.20	-351.7	-703.4	395.9	377.6	18.34	21.590		
4,700.0	4,674.9	4,674.5	4,594.4	11.4	16.5	35.18	-361.1	-721.9	406.5	387.7	18.75	21.675		
4,800.0	4,774.2	4,773.9	4,691.7	11.7	16.9	35.15	-370.5	-740.5	417.0	397.9	19.17	21.756		
4,900.0	4,873.5	4,873.4	4,788.9	12.0	17.3	35.13	-379.8	-759.1	427.6	408.0	19.58	21.833		
5,000.0	4,972.9	4,972.8	4,886.1	12.2	17.7	35.11	-389.2	-777.6	438.1	418.1	20.00	21.908		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design											S32-T2N-R68W (File) - File 3J-32H-K268 - 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 +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
5,100.0	5,072.2	5,072.3	4,983.4	12.5	18.1	35.09	-398.6	-796.2	448.7	428.2	20.41	21.979				
5,200.0	5,171.6	5,171.7	5,080.6	12.7	18.5	35.07	-408.0	-814.7	459.2	438.4	20.83	22.047				
5,300.0	5,270.9	5,271.2	5,177.9	13.0	18.9	35.06	-417.4	-833.3	469.7	448.5	21.24	22.113				
5,400.0	5,370.3	5,370.6	5,275.1	13.3	19.3	35.04	-426.8	-851.9	480.3	458.6	21.66	22.176				
5,500.0	5,469.6	5,470.0	5,372.4	13.5	19.8	35.02	-436.2	-870.4	490.8	468.8	22.07	22.237				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-142.47	-3.6	-2.8	4.6						
100.0	100.0	100.0	100.0	0.2	0.2	-142.47	-3.6	-2.8	4.6	4.3	0.30	15.125			
200.0	200.0	200.0	200.0	0.3	0.3	-142.47	-3.6	-2.8	4.6	3.9	0.65	7.037			
300.0	300.0	300.0	300.0	0.5	0.5	-142.47	-3.6	-2.8	4.6	3.6	1.00	4.585			
333.5	333.5	333.5	333.5	0.6	0.6	-142.47	-3.6	-2.8	4.6	3.5	1.12	4.106 CC			
400.0	400.0	400.0	400.0	0.7	0.7	-141.69	-3.8	-3.0	4.8	3.5	1.35	3.554 ES, SF			
500.0	500.0	499.9	499.8	0.9	0.9	-4.03	-4.8	-4.4	6.3	4.6	1.70	3.690			
600.0	600.0	599.7	599.6	1.0	1.0	0.51	-6.8	-7.3	8.0	5.9	2.05	3.886			
700.0	699.9	699.5	699.3	1.2	1.2	4.97	-9.7	-11.5	9.7	7.3	2.40	4.039			
800.0	799.8	799.3	798.9	1.4	1.4	9.35	-13.7	-17.2	11.5	8.7	2.74	4.173			
900.0	899.5	899.1	898.3	1.6	1.6	13.64	-18.7	-24.4	13.3	10.2	3.10	4.302			
1,000.0	999.2	998.8	997.5	1.8	1.9	17.79	-24.6	-32.9	15.3	11.8	3.45	4.429			
1,100.0	1,098.6	1,098.5	1,096.4	2.0	2.1	21.79	-31.6	-42.9	17.4	13.6	3.82	4.553			
1,200.0	1,197.9	1,198.2	1,195.1	2.3	2.4	24.73	-39.5	-54.2	20.3	16.1	4.20	4.834			
1,300.0	1,297.3	1,297.8	1,293.5	2.5	2.7	25.71	-48.3	-66.9	24.8	20.3	4.58	5.420			
1,400.0	1,396.6	1,397.7	1,392.1	2.8	3.0	26.15	-57.4	-80.0	29.8	24.8	4.97	5.996			
1,500.0	1,496.0	1,497.6	1,490.7	3.0	3.3	26.46	-66.5	-93.0	34.7	29.4	5.35	6.488			
1,600.0	1,595.3	1,597.4	1,589.3	3.3	3.6	26.69	-75.7	-106.1	39.7	33.9	5.74	6.911			
1,700.0	1,694.7	1,697.3	1,687.9	3.5	3.9	26.87	-84.8	-119.2	44.6	38.5	6.13	7.279			
1,800.0	1,794.0	1,797.2	1,786.5	3.8	4.3	27.02	-93.9	-132.2	49.6	43.0	6.52	7.603			
1,900.0	1,893.3	1,897.1	1,885.1	4.0	4.6	27.14	-103.0	-145.3	54.5	47.6	6.91	7.888			
2,000.0	1,992.7	1,997.0	1,983.7	4.3	4.9	27.23	-112.1	-158.4	59.4	52.1	7.30	8.142			
2,100.0	2,092.0	2,096.8	2,082.3	4.6	5.2	27.32	-121.2	-171.4	64.4	56.7	7.69	8.370			
2,200.0	2,191.4	2,196.7	2,180.9	4.8	5.5	27.39	-130.3	-184.5	69.3	61.3	8.09	8.575			
2,300.0	2,290.7	2,296.6	2,279.5	5.1	5.9	27.45	-139.4	-197.6	74.3	65.8	8.48	8.760			
2,400.0	2,390.0	2,396.5	2,378.1	5.3	6.2	27.51	-148.5	-210.7	79.2	70.4	8.87	8.929			
2,500.0	2,489.4	2,496.3	2,476.7	5.6	6.5	27.56	-157.6	-223.7	84.2	74.9	9.27	9.083			
2,600.0	2,588.7	2,596.2	2,575.3	5.9	6.8	27.60	-166.7	-236.8	89.1	79.5	9.66	9.224			
2,700.0	2,688.1	2,696.1	2,673.9	6.1	7.2	27.64	-175.9	-249.9	94.1	84.0	10.06	9.354			
2,800.0	2,787.4	2,796.0	2,772.5	6.4	7.5	27.67	-185.0	-262.9	99.0	88.6	10.45	9.473			
2,900.0	2,886.7	2,895.9	2,871.1	6.7	7.8	27.70	-194.1	-276.0	104.0	93.1	10.85	9.584			
3,000.0	2,986.1	2,995.7	2,969.7	6.9	8.1	27.73	-203.2	-289.1	108.9	97.7	11.24	9.687			
3,100.0	3,085.4	3,095.6	3,068.3	7.2	8.5	27.76	-212.3	-302.1	113.8	102.2	11.64	9.782			
3,200.0	3,184.8	3,195.5	3,166.9	7.5	8.8	27.78	-221.4	-315.2	118.8	106.8	12.03	9.872			
3,300.0	3,284.1	3,295.4	3,265.5	7.7	9.1	27.80	-230.5	-328.3	123.7	111.3	12.43	9.955			
3,400.0	3,383.4	3,395.2	3,364.1	8.0	9.5	27.82	-239.6	-341.3	128.7	115.9	12.83	10.033			
3,500.0	3,482.8	3,495.1	3,462.7	8.2	9.8	27.84	-248.7	-354.4	133.6	120.4	13.22	10.107			
3,600.0	3,582.1	3,595.0	3,561.3	8.5	10.1	27.86	-257.8	-367.5	138.6	125.0	13.62	10.176			
3,700.0	3,681.5	3,694.9	3,659.9	8.8	10.4	27.87	-266.9	-380.5	143.5	129.5	14.01	10.241			
3,800.0	3,780.8	3,794.8	3,758.5	9.0	10.8	27.89	-276.1	-393.6	148.5	134.0	14.41	10.302			
3,900.0	3,880.1	3,894.6	3,857.1	9.3	11.1	27.90	-285.2	-406.7	153.4	138.6	14.81	10.360			
4,000.0	3,979.5	3,994.5	3,955.7	9.6	11.4	27.92	-294.3	-419.7	158.3	143.1	15.20	10.415			
4,100.0	4,078.8	4,094.4	4,054.3	9.8	11.8	27.93	-303.4	-432.8	163.3	147.7	15.60	10.467			
4,200.0	4,178.2	4,194.3	4,152.9	10.1	12.1	27.94	-312.5	-445.9	168.2	152.2	16.00	10.517			
4,300.0	4,277.5	4,294.1	4,251.5	10.4	12.4	27.95	-321.6	-458.9	173.2	156.8	16.39	10.564			
4,400.0	4,376.8	4,394.0	4,350.1	10.6	12.7	27.96	-330.7	-472.0	178.1	161.3	16.79	10.609			
4,500.0	4,476.2	4,493.9	4,448.7	10.9	13.1	27.97	-339.8	-485.1	183.1	165.9	17.19	10.651			
4,600.0	4,575.5	4,593.8	4,547.3	11.2	13.4	27.98	-348.9	-498.2	188.0	170.4	17.58	10.692			
4,700.0	4,674.9	4,693.6	4,645.9	11.4	13.7	27.99	-358.0	-511.2	193.0	175.0	17.98	10.731			
4,800.0	4,774.2	4,793.5	4,744.5	11.7	14.1	28.00	-367.1	-524.3	197.9	179.5	18.38	10.768			
4,900.0	4,873.5	4,893.4	4,843.1	12.0	14.4	28.01	-376.3	-537.4	202.9	184.1	18.78	10.804			
5,000.0	4,972.9	4,993.3	4,941.7	12.2	14.7	28.01	-385.4	-550.4	207.8	188.6	19.17	10.838			

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - 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		
5,100.0	5,072.2	5,093.2	5,040.3	12.5	15.0	28.02	-394.5	-563.5	212.7	193.2	19.57	10.871		
5,200.0	5,171.6	5,193.0	5,138.9	12.7	15.4	28.03	-403.6	-576.6	217.7	197.7	19.97	10.902		
5,300.0	5,270.9	5,292.9	5,237.5	13.0	15.7	28.03	-412.7	-589.6	222.6	202.3	20.37	10.932		
5,400.0	5,370.3	5,392.8	5,336.1	13.3	16.0	28.04	-421.8	-602.7	227.6	206.8	20.76	10.961		
5,500.0	5,469.6	5,492.7	5,434.7	13.5	16.4	28.05	-430.9	-615.8	232.5	211.4	21.16	10.989		
5,600.0	5,568.9	5,592.5	5,533.3	13.8	16.7	28.05	-440.0	-628.8	237.5	215.9	21.56	11.016		
5,700.0	5,668.3	5,692.4	5,631.9	14.1	17.0	28.06	-449.1	-641.9	242.4	220.5	21.95	11.042		
5,800.0	5,767.6	5,792.3	5,730.5	14.3	17.4	28.06	-458.2	-655.0	247.4	225.0	22.35	11.067		
5,900.0	5,867.0	5,892.2	5,829.1	14.6	17.7	28.07	-467.3	-668.0	252.3	229.6	22.75	11.091		
6,000.0	5,966.3	5,992.1	5,927.7	14.9	18.0	28.07	-476.5	-681.1	257.3	234.1	23.15	11.114		
6,100.0	6,065.6	6,091.9	6,026.3	15.1	18.3	28.08	-485.6	-694.2	262.2	238.7	23.54	11.136		
6,200.0	6,165.0	6,191.8	6,124.9	15.4	18.7	28.08	-494.7	-707.2	267.1	243.2	23.94	11.158		
6,300.0	6,264.3	6,291.7	6,223.5	15.7	19.0	28.09	-503.8	-720.3	272.1	247.8	24.34	11.179		
6,400.0	6,363.7	6,391.6	6,322.1	15.9	19.3	28.09	-512.9	-733.4	277.0	252.3	24.74	11.199		
6,500.0	6,463.0	6,491.4	6,420.7	16.2	19.7	28.10	-522.0	-746.5	282.0	256.8	25.13	11.219		
6,600.0	6,562.3	6,591.3	6,519.3	16.5	20.0	28.10	-531.1	-759.5	286.9	261.4	25.53	11.238		
6,700.0	6,661.7	6,691.2	6,617.9	16.7	20.3	28.10	-540.2	-772.6	291.9	265.9	25.93	11.256		
6,800.0	6,761.0	6,791.1	6,716.5	17.0	20.6	28.11	-549.3	-785.7	296.8	270.5	26.33	11.274		
6,900.0	6,860.5	6,890.4	6,814.5	17.2	21.0	-64.03	-558.4	-798.6	304.1	277.6	26.47	11.486		
7,000.0	6,958.4	6,986.4	6,909.3	17.2	21.3	-91.38	-567.1	-811.2	317.1	291.0	26.13	12.137		
7,100.0	7,051.7	7,080.9	7,002.6	17.1	21.6	-102.31	-575.5	-823.6	338.7	313.2	25.54	13.262		
7,200.0	7,137.6	7,209.7	7,129.9	16.9	21.8	-111.19	-569.1	-840.5	365.9	341.1	24.74	14.790		
7,300.0	7,213.4	7,359.5	7,271.6	16.7	21.8	-117.79	-525.9	-859.2	392.4	368.4	24.04	16.326		
7,400.0	7,276.9	7,533.0	7,415.4	16.5	21.6	-122.41	-431.9	-878.3	414.1	390.6	23.48	17.633		
7,500.0	7,326.1	7,727.1	7,535.0	16.4	21.2	-124.74	-281.1	-894.1	426.5	403.2	23.28	18.325		
7,600.0	7,359.5	7,928.8	7,599.3	16.4	21.1	-124.48	-91.2	-902.7	426.8	403.2	23.66	18.040		
7,700.0	7,376.1	8,071.5	7,606.0	16.6	21.3	-123.20	51.1	-903.6	418.6	394.3	24.25	17.265		
7,766.9	7,379.7	8,138.2	7,606.0	16.8	21.4	-122.91	117.9	-903.6	416.4	391.6	24.75	16.824		
7,800.0	7,378.0	8,171.4	7,606.0	17.0	21.5	-123.11	151.1	-903.6	417.4	392.5	24.93	16.745		
7,900.0	7,378.0	8,271.4	7,606.0	17.5	22.0	-123.11	251.1	-903.6	417.4	391.4	26.07	16.015		
8,000.0	7,378.0	8,371.4	7,606.0	18.2	22.5	-123.11	351.1	-903.6	417.4	390.0	27.47	15.195		
8,100.0	7,378.0	8,471.4	7,606.0	19.0	23.2	-123.11	451.1	-903.6	417.4	388.3	29.11	14.340		
8,200.0	7,378.0	8,571.4	7,606.0	20.0	24.0	-123.11	551.1	-903.6	417.4	386.5	30.94	13.490		
8,300.0	7,378.0	8,671.4	7,606.0	21.0	24.9	-123.11	651.1	-903.6	417.4	384.5	32.94	12.674		
8,400.0	7,378.0	8,771.4	7,606.0	22.2	25.8	-123.11	751.1	-903.6	417.4	382.4	35.07	11.904		
8,500.0	7,378.0	8,871.4	7,606.0	23.4	26.9	-123.11	851.1	-903.6	417.4	380.1	37.31	11.189		
8,600.0	7,378.0	8,971.4	7,606.0	24.7	28.0	-123.11	951.1	-903.6	417.4	377.8	39.64	10.531		
8,700.0	7,378.0	9,071.4	7,606.0	26.0	29.2	-123.11	1,051.1	-903.6	417.4	375.4	42.05	9.927		
8,800.0	7,378.0	9,171.4	7,606.0	27.4	30.5	-123.11	1,151.1	-903.6	417.4	372.9	44.53	9.375		
8,900.0	7,378.0	9,271.4	7,606.0	28.8	31.7	-123.11	1,251.1	-903.6	417.4	370.4	47.05	8.871		
9,000.0	7,378.0	9,371.4	7,606.0	30.3	33.1	-123.11	1,351.1	-903.6	417.4	367.8	49.63	8.411		
9,100.0	7,378.0	9,471.4	7,606.0	31.7	34.4	-123.11	1,451.1	-903.6	417.4	365.2	52.24	7.990		
9,200.0	7,378.0	9,571.4	7,606.0	33.3	35.9	-123.11	1,551.1	-903.6	417.4	362.5	54.89	7.605		
9,300.0	7,378.0	9,671.4	7,606.0	34.8	37.3	-123.11	1,651.1	-903.6	417.4	359.9	57.57	7.251		
9,400.0	7,378.0	9,771.4	7,606.0	36.3	38.7	-123.11	1,751.1	-903.6	417.4	357.2	60.27	6.926		
9,500.0	7,378.0	9,871.4	7,606.0	37.9	40.2	-123.11	1,851.1	-903.6	417.4	354.4	63.00	6.627		
9,600.0	7,378.0	9,971.4	7,606.0	39.5	41.7	-123.11	1,951.1	-903.6	417.4	351.7	65.74	6.350		
9,700.0	7,378.0	10,071.4	7,606.0	41.1	43.3	-123.11	2,051.1	-903.6	417.4	348.9	68.50	6.094		
9,800.0	7,378.0	10,171.4	7,606.0	42.7	44.8	-123.11	2,151.1	-903.6	417.4	346.2	71.27	5.857		
9,900.0	7,378.0	10,271.4	7,606.0	44.4	46.4	-123.11	2,251.1	-903.6	417.4	343.4	74.06	5.636		
10,000.0	7,378.0	10,371.4	7,606.0	46.0	47.9	-123.11	2,351.1	-903.6	417.4	340.6	76.86	5.431		
10,100.0	7,378.0	10,471.4	7,606.0	47.6	49.5	-123.11	2,451.1	-903.6	417.4	337.8	79.67	5.239		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,378.0	10,571.4	7,606.0	49.3	51.1	-123.11	2,551.1	-903.6	417.4	334.9	82.49	5.060		
10,300.0	7,378.0	10,671.4	7,606.0	50.9	52.7	-123.11	2,651.1	-903.6	417.4	332.1	85.32	4.893		
10,400.0	7,378.0	10,771.4	7,606.0	52.6	54.3	-123.11	2,751.1	-903.6	417.4	329.3	88.16	4.735		
10,500.0	7,378.0	10,871.4	7,606.0	54.3	55.9	-123.11	2,851.1	-903.6	417.4	326.4	91.00	4.587		
10,600.0	7,378.0	10,971.4	7,606.0	55.9	57.6	-123.11	2,951.1	-903.6	417.4	323.6	93.85	4.448		
10,700.0	7,378.0	11,071.4	7,606.0	57.6	59.2	-123.11	3,051.1	-903.6	417.4	320.7	96.71	4.317		
10,756.2	7,378.0	11,127.6	7,606.0	58.6	60.1	-123.11	3,107.3	-903.6	417.4	319.1	98.31	4.246		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3M-32H-K268 - 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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	102.24	-3.6	16.8	17.2						
100.0	100.0	100.0	100.0	0.2	0.2	102.24	-3.6	16.8	17.2	16.9	0.30	56.562			
190.6	190.6	190.6	190.6	0.3	0.3	102.24	-3.6	16.8	17.2	16.6	0.62	27.702			
200.0	200.0	200.0	200.0	0.3	0.3	102.24	-3.6	16.8	17.2	16.5	0.65	26.315			
300.0	300.0	300.0	300.0	0.5	0.5	105.15	-4.5	16.5	17.1	16.1	1.00	17.052			
357.0	357.0	357.1	357.0	0.6	0.6	109.44	-5.7	16.1	17.0	15.8	1.20	14.167 CC			
400.0	400.0	400.0	400.0	0.7	0.7	113.93	-6.9	15.6	17.1	15.7	1.35	12.622 ES			
500.0	500.0	499.8	499.7	0.9	0.9	-99.43	-11.0	14.2	18.0	16.3	1.72	10.484			
600.0	600.0	599.6	599.3	1.0	1.1	-87.96	-16.8	12.1	20.6	18.5	2.08	9.871			
700.0	699.9	699.3	698.6	1.2	1.3	-80.07	-24.1	9.6	24.5	22.0	2.46	9.972			
800.0	799.8	799.0	798.0	1.4	1.5	-75.79	-32.8	6.5	29.2	26.4	2.84	10.289			
900.0	899.5	898.9	897.5	1.6	1.7	-75.42	-41.5	3.4	33.6	30.4	3.24	10.378			
1,000.0	999.2	998.9	996.9	1.8	2.0	-77.71	-50.2	0.3	37.6	34.0	3.67	10.261			
1,100.0	1,098.6	1,098.7	1,096.4	2.0	2.2	-81.92	-58.9	-2.7	41.4	37.3	4.13	10.026			
1,200.0	1,197.9	1,198.6	1,195.8	2.3	2.4	-86.72	-67.7	-5.8	45.3	40.7	4.61	9.826			
1,300.0	1,297.3	1,298.5	1,295.3	2.5	2.7	-90.74	-76.4	-8.9	49.5	44.4	5.10	9.704			
1,400.0	1,396.6	1,398.3	1,394.7	2.8	2.9	-94.13	-85.1	-12.0	53.9	48.3	5.59	9.636			
1,500.0	1,496.0	1,498.2	1,494.1	3.0	3.1	-97.00	-93.8	-15.0	58.4	52.3	6.08	9.605			
1,600.0	1,595.3	1,598.0	1,593.5	3.3	3.4	-99.45	-102.5	-18.1	63.1	56.5	6.57	9.598			
1,700.0	1,694.7	1,697.9	1,693.0	3.5	3.6	-101.56	-111.2	-21.2	67.8	60.8	7.06	9.608			
1,800.0	1,794.0	1,797.7	1,792.4	3.8	3.8	-103.39	-120.0	-24.3	72.6	65.1	7.55	9.628			
1,900.0	1,893.3	1,897.6	1,891.8	4.0	4.1	-104.99	-128.7	-27.3	77.5	69.5	8.03	9.655			
2,000.0	1,992.7	1,997.5	1,991.3	4.3	4.3	-106.40	-137.4	-30.4	82.5	74.0	8.52	9.687			
2,100.0	2,092.0	2,097.3	2,090.7	4.6	4.5	-107.65	-146.1	-33.5	87.5	78.5	9.00	9.722			
2,200.0	2,191.4	2,197.2	2,190.1	4.8	4.8	-108.77	-154.8	-36.6	92.5	83.1	9.48	9.758			
2,300.0	2,290.7	2,297.0	2,289.5	5.1	5.0	-109.77	-163.6	-39.7	97.6	87.6	9.97	9.794			
2,400.0	2,390.0	2,396.9	2,389.0	5.3	5.2	-110.67	-172.3	-42.7	102.7	92.3	10.45	9.831			
2,500.0	2,489.4	2,496.7	2,488.4	5.6	5.5	-111.48	-181.0	-45.8	107.8	96.9	10.93	9.867			
2,600.0	2,588.7	2,596.6	2,587.8	5.9	5.7	-112.22	-189.7	-48.9	112.9	101.5	11.41	9.902			
2,700.0	2,688.1	2,696.5	2,687.3	6.1	6.0	-112.90	-198.4	-52.0	118.1	106.2	11.89	9.937			
2,800.0	2,787.4	2,796.3	2,786.7	6.4	6.2	-113.52	-207.1	-55.0	123.3	110.9	12.36	9.970			
2,900.0	2,886.7	2,896.2	2,886.1	6.7	6.4	-114.09	-215.9	-58.1	128.5	115.6	12.84	10.003			
3,000.0	2,986.1	2,996.0	2,985.6	6.9	6.7	-114.62	-224.6	-61.2	133.6	120.3	13.32	10.034			
3,100.0	3,085.4	3,095.9	3,085.0	7.2	6.9	-115.10	-233.3	-64.3	138.8	125.1	13.80	10.064			
3,200.0	3,184.8	3,195.8	3,184.4	7.5	7.1	-115.55	-242.0	-67.4	144.1	129.8	14.27	10.093			
3,300.0	3,284.1	3,295.6	3,283.8	7.7	7.4	-115.97	-250.7	-70.4	149.3	134.5	14.75	10.121			
3,400.0	3,383.4	3,395.5	3,383.3	8.0	7.6	-116.36	-259.4	-73.5	154.5	139.3	15.23	10.148			
3,500.0	3,482.8	3,495.3	3,482.7	8.2	7.9	-116.73	-268.2	-76.6	159.7	144.0	15.70	10.174			
3,600.0	3,582.1	3,595.2	3,582.1	8.5	8.1	-117.07	-276.9	-79.7	165.0	148.8	16.18	10.198			
3,700.0	3,681.5	3,695.0	3,681.6	8.8	8.3	-117.39	-285.6	-82.7	170.2	153.6	16.65	10.222			
3,800.0	3,780.8	3,794.9	3,781.0	9.0	8.6	-117.70	-294.3	-85.8	175.5	158.4	17.13	10.245			
3,900.0	3,880.1	3,894.8	3,880.4	9.3	8.8	-117.98	-303.0	-88.9	180.7	163.1	17.60	10.267			
4,000.0	3,979.5	3,994.6	3,979.8	9.6	9.0	-118.25	-311.8	-92.0	186.0	167.9	18.08	10.289			
4,100.0	4,078.8	4,094.5	4,079.3	9.8	9.3	-118.50	-320.5	-95.1	191.3	172.7	18.55	10.309			
4,200.0	4,178.2	4,194.3	4,178.7	10.1	9.5	-118.74	-329.2	-98.1	196.5	177.5	19.03	10.329			
4,300.0	4,277.5	4,294.2	4,278.1	10.4	9.8	-118.97	-337.9	-101.2	201.8	182.3	19.50	10.348			
4,400.0	4,376.8	4,394.0	4,377.6	10.6	10.0	-119.19	-346.6	-104.3	207.1	187.1	19.98	10.366			
4,500.0	4,476.2	4,493.9	4,477.0	10.9	10.2	-119.39	-355.3	-107.4	212.4	191.9	20.45	10.384			
4,600.0	4,575.5	4,593.8	4,576.4	11.2	10.5	-119.59	-364.1	-110.4	217.6	196.7	20.93	10.401			
4,700.0	4,674.9	4,693.6	4,675.8	11.4	10.7	-119.77	-372.8	-113.5	222.9	201.5	21.40	10.417			
4,800.0	4,774.2	4,793.5	4,775.3	11.7	10.9	-119.95	-381.5	-116.6	228.2	206.3	21.87	10.433			
4,900.0	4,873.5	4,893.3	4,874.7	12.0	11.2	-120.12	-390.2	-119.7	233.5	211.1	22.35	10.448			

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3M-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,000.0	4,972.9	4,993.2	4,974.1	12.2	11.4	-120.28	-398.9	-122.7	238.8	216.0	22.82	10.463		
5,100.0	5,072.2	5,093.1	5,073.6	12.5	11.7	-120.44	-407.7	-125.8	244.1	220.8	23.30	10.477		
5,200.0	5,171.6	5,192.9	5,173.0	12.7	11.9	-120.59	-416.4	-128.9	249.4	225.6	23.77	10.491		
5,300.0	5,270.9	5,292.8	5,272.4	13.0	12.1	-120.73	-425.1	-132.0	254.7	230.4	24.24	10.505		
5,400.0	5,370.3	5,392.6	5,371.8	13.3	12.4	-120.86	-433.8	-135.1	260.0	235.2	24.72	10.518		
5,500.0	5,469.6	5,492.5	5,471.3	13.5	12.6	-121.00	-442.5	-138.1	265.2	240.1	25.19	10.530		
5,600.0	5,568.9	5,592.3	5,570.7	13.8	12.8	-121.12	-451.2	-141.2	270.5	244.9	25.66	10.542		
5,700.0	5,668.3	5,692.2	5,670.1	14.1	13.1	-121.24	-460.0	-144.3	275.8	249.7	26.14	10.554		
5,800.0	5,767.6	5,792.1	5,769.6	14.3	13.3	-121.36	-468.7	-147.4	281.1	254.5	26.61	10.566		
5,900.0	5,867.0	5,891.9	5,869.0	14.6	13.6	-121.47	-477.4	-150.4	286.4	259.4	27.08	10.577		
6,000.0	5,966.3	5,991.8	5,968.4	14.9	13.8	-121.58	-486.1	-153.5	291.7	264.2	27.56	10.587		
6,100.0	6,065.6	6,091.6	6,067.8	15.1	14.0	-121.68	-494.8	-156.6	297.1	269.0	28.03	10.598		
6,200.0	6,165.0	6,191.5	6,167.3	15.4	14.3	-121.78	-503.6	-159.7	302.4	273.9	28.50	10.608		
6,300.0	6,264.3	6,291.3	6,266.7	15.7	14.5	-121.88	-512.3	-162.8	307.7	278.7	28.98	10.618		
6,400.0	6,363.7	6,391.2	6,366.1	15.9	14.7	-121.97	-521.0	-165.8	313.0	283.5	29.45	10.628		
6,500.0	6,463.0	6,491.1	6,465.6	16.2	15.0	-122.06	-529.7	-168.9	318.3	288.4	29.92	10.637		
6,600.0	6,562.3	6,590.9	6,565.0	16.5	15.2	-122.15	-538.4	-172.0	323.6	293.2	30.39	10.646		
6,700.0	6,661.7	6,690.8	6,664.4	16.7	15.4	-122.24	-547.1	-175.1	328.9	298.0	30.87	10.655		
6,800.0	6,761.0	6,790.6	6,763.8	17.0	15.7	-122.32	-555.9	-178.1	334.2	302.9	31.34	10.663		
6,900.0	6,860.5	6,889.9	6,862.7	17.2	15.9	146.97	-564.5	-181.2	341.7	310.1	31.65	10.796		
7,000.0	6,958.4	6,986.1	6,958.5	17.2	16.2	125.23	-572.9	-184.2	354.6	322.8	31.79	11.155		
7,100.0	7,051.7	7,100.9	7,073.0	17.1	16.3	123.14	-575.9	-187.7	373.4	341.9	31.54	11.838		
7,200.0	7,137.6	7,235.7	7,205.1	16.9	16.2	124.40	-550.9	-191.8	392.7	362.2	30.54	12.860		
7,300.0	7,213.4	7,385.2	7,340.2	16.7	15.7	125.97	-488.1	-196.0	409.8	380.9	28.91	14.175		
7,400.0	7,276.9	7,547.8	7,463.3	16.5	15.1	126.89	-382.7	-199.8	422.0	395.0	27.01	15.623		
7,500.0	7,326.1	7,718.3	7,555.3	16.4	14.5	126.64	-240.0	-202.6	427.3	401.9	25.44	16.799		
7,600.0	7,359.5	7,888.5	7,601.4	16.4	14.3	125.01	-76.8	-204.1	425.1	400.2	24.83	17.119		
7,700.0	7,376.1	8,016.6	7,606.0	16.6	14.6	123.27	51.1	-204.2	418.3	393.1	25.26	16.559		
7,766.8	7,379.7	8,083.3	7,606.0	16.8	14.8	122.89	117.8	-204.2	416.6	390.8	25.83	16.131		
7,800.0	7,378.0	8,116.5	7,606.0	17.0	15.0	123.11	151.1	-204.2	417.4	391.3	26.10	15.994		
7,900.0	7,378.0	8,216.5	7,606.0	17.5	15.6	123.11	251.1	-204.2	417.4	390.2	27.19	15.351		
8,000.0	7,378.0	8,316.5	7,606.0	18.2	16.4	123.11	351.1	-204.2	417.4	388.9	28.55	14.622		
8,100.0	7,378.0	8,416.5	7,606.0	19.0	17.3	123.11	451.1	-204.2	417.4	387.3	30.13	13.854		
8,200.0	7,378.0	8,516.5	7,606.0	20.0	18.4	123.11	551.1	-204.2	417.4	385.5	31.91	13.082		
8,300.0	7,378.0	8,616.5	7,606.0	21.0	19.5	123.11	651.1	-204.2	417.4	383.6	33.85	12.332		
8,400.0	7,378.0	8,716.5	7,606.0	22.2	20.7	123.11	751.1	-204.2	417.4	381.5	35.93	11.618		
8,500.0	7,378.0	8,816.5	7,606.0	23.4	22.0	123.11	851.1	-204.2	417.4	379.3	38.12	10.950		
8,600.0	7,378.0	8,916.5	7,606.0	24.7	23.4	123.11	951.1	-204.2	417.4	377.0	40.41	10.330		
8,700.0	7,378.0	9,016.5	7,606.0	26.0	24.8	123.11	1,051.1	-204.2	417.4	374.7	42.78	9.758		
8,800.0	7,378.0	9,116.5	7,606.0	27.4	26.3	123.11	1,151.1	-204.2	417.4	372.2	45.22	9.232		
8,900.0	7,378.0	9,216.5	7,606.0	28.8	27.7	123.11	1,251.1	-204.2	417.4	369.7	47.71	8.749		
9,000.0	7,378.0	9,316.5	7,606.0	30.3	29.3	123.11	1,351.1	-204.2	417.4	367.2	50.26	8.306		
9,100.0	7,378.0	9,416.5	7,606.0	31.7	30.8	123.11	1,451.1	-204.2	417.4	364.6	52.84	7.900		
9,200.0	7,378.0	9,516.5	7,606.0	33.3	32.4	123.11	1,551.1	-204.2	417.4	362.0	55.46	7.526		
9,300.0	7,378.0	9,616.5	7,606.0	34.8	34.0	123.11	1,651.1	-204.2	417.4	359.3	58.12	7.183		
9,400.0	7,378.0	9,716.5	7,606.0	36.3	35.5	123.11	1,751.1	-204.2	417.4	356.6	60.80	6.866		
9,500.0	7,378.0	9,816.5	7,606.0	37.9	37.2	123.11	1,851.1	-204.2	417.4	353.9	63.50	6.574		
9,600.0	7,378.0	9,916.5	7,606.0	39.5	38.8	123.11	1,951.1	-204.2	417.4	351.2	66.22	6.303		
9,700.0	7,378.0	10,016.5	7,606.0	41.1	40.4	123.11	2,051.1	-204.2	417.4	348.5	68.97	6.053		
9,800.0	7,378.0	10,116.5	7,606.0	42.7	42.1	123.11	2,151.1	-204.2	417.4	345.7	71.73	5.820		
9,900.0	7,378.0	10,216.5	7,606.0	44.4	43.7	123.11	2,251.1	-204.2	417.4	342.9	74.50	5.603		
10,000.0	7,378.0	10,316.5	7,606.0	46.0	45.4	123.11	2,351.1	-204.2	417.4	340.2	77.28	5.401		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3M-32H-K268 - 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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
10,100.0	7,378.0	10,416.5	7,606.0	47.6	47.1	123.11	2,451.1	-204.2	417.4	337.4	80.08	5.213		
10,200.0	7,378.0	10,516.5	7,606.0	49.3	48.7	123.11	2,551.1	-204.2	417.4	334.5	82.89	5.036		
10,300.0	7,378.0	10,616.5	7,606.0	50.9	50.4	123.11	2,651.1	-204.2	417.4	331.7	85.71	4.871		
10,400.0	7,378.0	10,716.5	7,606.0	52.6	52.1	123.11	2,751.1	-204.2	417.4	328.9	88.53	4.715		
10,500.0	7,378.0	10,816.5	7,606.0	54.3	53.8	123.11	2,851.1	-204.2	417.4	326.1	91.37	4.569		
10,600.0	7,378.0	10,916.5	7,606.0	55.9	55.5	123.11	2,951.1	-204.2	417.4	323.2	94.20	4.431		
10,700.0	7,378.0	11,016.5	7,606.0	57.6	57.2	123.11	3,051.1	-204.2	417.4	320.4	97.05	4.301		
10,741.2	7,378.0	11,057.7	7,606.0	58.3	57.9	123.11	3,092.3	-204.2	417.4	319.2	98.23	4.250		
10,756.2	7,378.0	11,069.1	7,606.0	58.6	58.1	123.11	3,103.7	-204.2	417.5	318.9	98.60	4.234 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3N-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	19.6	19.6	19.3	0.30	64.488		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	19.6	19.6	18.9	0.65	30.002		
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	19.6	19.6	18.6	1.00	19.549 CC		
400.0	400.0	399.9	399.9	0.7	0.7	92.48	-0.9	19.8	19.8	18.4	1.35	14.634 ES		
500.0	500.0	499.8	499.7	0.9	0.9	-127.57	-3.4	20.3	20.7	19.0	1.70	12.141		
600.0	600.0	599.6	599.4	1.0	1.0	-120.94	-7.7	21.1	23.4	21.4	2.06	11.362 SF		
700.0	699.9	699.2	698.9	1.2	1.2	-115.94	-13.6	22.3	28.1	25.7	2.43	11.566		
800.0	799.8	798.7	798.0	1.4	1.4	-112.68	-21.3	23.8	34.6	31.8	2.81	12.308		
900.0	899.5	898.2	897.1	1.6	1.7	-111.11	-30.3	25.6	42.6	39.4	3.21	13.291		
1,000.0	999.2	997.8	996.3	1.8	1.9	-111.72	-39.4	27.5	51.4	47.8	3.62	14.187		
1,100.0	1,098.6	1,097.3	1,095.4	2.0	2.1	-113.65	-48.6	29.3	60.8	56.8	4.06	14.992		
1,200.0	1,197.9	1,196.8	1,194.5	2.3	2.3	-115.86	-57.7	31.1	70.8	66.3	4.50	15.719		
1,300.0	1,297.3	1,296.3	1,293.5	2.5	2.6	-117.54	-66.9	33.0	80.8	75.8	4.95	16.317		
1,400.0	1,396.6	1,395.8	1,392.5	2.8	2.8	-118.84	-76.0	34.8	90.9	85.4	5.40	16.815		
1,500.0	1,496.0	1,495.2	1,491.6	3.0	3.0	-119.88	-85.2	36.6	101.0	95.1	5.86	17.236		
1,600.0	1,595.3	1,594.7	1,590.6	3.3	3.3	-120.74	-94.3	38.5	111.1	104.8	6.31	17.596		
1,700.0	1,694.7	1,694.2	1,689.6	3.5	3.5	-121.45	-103.4	40.3	121.2	114.5	6.77	17.906		
1,800.0	1,794.0	1,793.7	1,788.7	3.8	3.7	-122.05	-112.6	42.1	131.4	124.2	7.23	18.177		
1,900.0	1,893.3	1,893.1	1,887.7	4.0	4.0	-122.57	-121.7	44.0	141.6	133.9	7.69	18.415		
2,000.0	1,992.7	1,992.6	1,986.7	4.3	4.2	-123.01	-130.9	45.8	151.8	143.6	8.15	18.626		
2,100.0	2,092.0	2,092.1	2,085.8	4.6	4.4	-123.40	-140.0	47.6	162.0	153.4	8.61	18.814		
2,200.0	2,191.4	2,191.6	2,184.8	4.8	4.7	-123.75	-149.2	49.5	172.2	163.1	9.07	18.983		
2,300.0	2,290.7	2,291.0	2,283.8	5.1	4.9	-124.05	-158.3	51.3	182.4	172.9	9.53	19.135		
2,400.0	2,390.0	2,390.5	2,382.9	5.3	5.2	-124.32	-167.5	53.1	192.6	182.6	9.99	19.273		
2,500.0	2,489.4	2,490.0	2,481.9	5.6	5.4	-124.57	-176.6	54.9	202.8	192.4	10.46	19.398		
2,600.0	2,588.7	2,589.4	2,580.9	5.9	5.6	-124.79	-185.7	56.8	213.1	202.1	10.92	19.512		
2,700.0	2,688.1	2,688.9	2,680.0	6.1	5.9	-124.99	-194.9	58.6	223.3	211.9	11.38	19.618		
2,800.0	2,787.4	2,788.4	2,779.0	6.4	6.1	-125.17	-204.0	60.4	233.5	221.7	11.84	19.714		
2,900.0	2,886.7	2,887.9	2,878.0	6.7	6.3	-125.34	-213.2	62.3	243.7	231.4	12.31	19.804		
3,000.0	2,986.1	2,987.3	2,977.1	6.9	6.6	-125.50	-222.3	64.1	254.0	241.2	12.77	19.887		
3,100.0	3,085.4	3,086.8	3,076.1	7.2	6.8	-125.64	-231.5	65.9	264.2	251.0	13.23	19.963		
3,200.0	3,184.8	3,186.3	3,175.2	7.5	7.0	-125.77	-240.6	67.8	274.4	260.7	13.70	20.035		
3,300.0	3,284.1	3,285.8	3,274.2	7.7	7.3	-125.90	-249.7	69.6	284.7	270.5	14.16	20.102		
3,400.0	3,383.4	3,385.2	3,373.2	8.0	7.5	-126.01	-258.9	71.4	294.9	280.3	14.63	20.165		
3,500.0	3,482.8	3,484.7	3,472.3	8.2	7.8	-126.12	-268.0	73.3	305.2	290.1	15.09	20.223		
3,600.0	3,582.1	3,584.2	3,571.3	8.5	8.0	-126.22	-277.2	75.1	315.4	299.8	15.55	20.278		
3,700.0	3,681.5	3,683.6	3,670.3	8.8	8.2	-126.31	-286.3	76.9	325.6	309.6	16.02	20.330		
3,800.0	3,780.8	3,783.1	3,769.4	9.0	8.5	-126.40	-295.5	78.8	335.9	319.4	16.48	20.379		
3,900.0	3,880.1	3,882.6	3,868.4	9.3	8.7	-126.48	-304.6	80.6	346.1	329.2	16.95	20.425		
4,000.0	3,979.5	3,982.1	3,967.4	9.6	8.9	-126.56	-313.7	82.4	356.4	339.0	17.41	20.469		
4,100.0	4,078.8	4,081.5	4,066.5	9.8	9.2	-126.63	-322.9	84.2	366.6	348.7	17.87	20.511		
4,200.0	4,178.2	4,181.0	4,165.5	10.1	9.4	-126.70	-332.0	86.1	376.8	358.5	18.34	20.550		
4,300.0	4,277.5	4,280.5	4,264.5	10.4	9.7	-126.76	-341.2	87.9	387.1	368.3	18.80	20.587		
4,400.0	4,376.8	4,380.0	4,363.6	10.6	9.9	-126.83	-350.3	89.7	397.3	378.1	19.27	20.623		
4,500.0	4,476.2	4,479.4	4,462.6	10.9	10.1	-126.89	-359.5	91.6	407.6	387.9	19.73	20.657		
4,600.0	4,575.5	4,578.9	4,561.6	11.2	10.4	-126.94	-368.6	93.4	417.8	397.6	20.20	20.689		
4,700.0	4,674.9	4,678.4	4,660.7	11.4	10.6	-127.00	-377.7	95.2	428.1	407.4	20.66	20.720		
4,800.0	4,774.2	4,777.8	4,759.7	11.7	10.8	-127.05	-386.9	97.1	438.3	417.2	21.13	20.749		
4,900.0	4,873.5	4,877.3	4,858.7	12.0	11.1	-127.10	-396.0	98.9	448.6	427.0	21.59	20.777		
5,000.0	4,972.9	4,976.8	4,957.8	12.2	11.3	-127.14	-405.2	100.7	458.8	436.8	22.05	20.804		
5,100.0	5,072.2	5,076.3	5,056.8	12.5	11.6	-127.19	-414.3	102.6	469.1	446.5	22.52	20.830		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File) - File 3N-32H-K268 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference				Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor							
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
5,200.0	5,171.6	5,175.7	5,155.8	12.7	11.8	-127.23	-423.5	104.4	479.3	456.3	22.98	20.855						
5,300.0	5,270.9	5,275.2	5,254.9	13.0	12.0	-127.27	-432.6	106.2	489.6	466.1	23.45	20.878						
5,400.0	5,370.3	5,374.7	5,353.9	13.3	12.3	-127.31	-441.7	108.0	499.8	475.9	23.91	20.901						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3O-32H-K268 - 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	0.0	0.0	0.0	0.0	98.23	-3.6	25.2	25.4						
100.0	100.0	100.0	100.0	0.2	0.2	98.23	-3.6	25.2	25.4	25.1	0.30	83.776			
200.0	200.0	200.0	200.0	0.3	0.3	98.23	-3.6	25.2	25.4	24.8	0.65	38.976			
233.5	233.5	233.5	233.5	0.4	0.4	98.23	-3.6	25.2	25.4	24.7	0.77	33.050 CC			
300.0	300.0	299.8	299.8	0.5	0.5	98.57	-3.8	25.3	25.6	24.6	1.00	25.555 ES			
400.0	400.0	399.5	399.5	0.7	0.7	101.17	-5.2	26.3	26.9	25.5	1.35	19.868			
500.0	500.0	499.1	499.0	0.9	0.9	-121.34	-8.0	28.4	29.7	28.0	1.70	17.424			
600.0	600.0	598.5	598.3	1.0	1.0	-118.50	-12.1	31.5	34.7	32.7	2.06	16.888 SF			
700.0	699.9	697.6	697.2	1.2	1.3	-117.19	-17.6	35.7	42.1	39.7	2.42	17.416			
800.0	799.8	796.5	795.7	1.4	1.5	-116.93	-24.5	40.8	51.7	48.9	2.79	18.543			
900.0	899.5	895.1	893.7	1.6	1.7	-117.27	-32.7	46.9	63.5	60.3	3.17	20.015			
1,000.0	999.2	994.2	992.2	1.8	1.9	-118.33	-41.4	53.5	76.7	73.1	3.57	21.456			
1,100.0	1,098.6	1,093.2	1,090.6	2.0	2.2	-120.01	-50.2	60.1	90.7	86.7	3.99	22.724			
1,200.0	1,197.9	1,192.0	1,188.9	2.3	2.4	-121.79	-58.9	66.7	105.4	101.0	4.42	23.833			
1,300.0	1,297.3	1,290.9	1,287.1	2.5	2.7	-123.15	-67.7	73.2	120.1	115.3	4.86	24.737			
1,400.0	1,396.6	1,389.8	1,385.4	2.8	2.9	-124.21	-76.4	79.8	134.9	129.6	5.29	25.486			
1,500.0	1,496.0	1,488.7	1,483.7	3.0	3.2	-125.06	-85.2	86.3	149.7	144.0	5.73	26.115			
1,600.0	1,595.3	1,587.5	1,581.9	3.3	3.4	-125.76	-93.9	92.9	164.6	158.4	6.17	26.651			
1,700.0	1,694.7	1,686.4	1,680.2	3.5	3.7	-126.34	-102.7	99.5	179.4	172.8	6.62	27.112			
1,800.0	1,794.0	1,785.3	1,778.5	3.8	3.9	-126.83	-111.4	106.0	194.3	187.2	7.06	27.512			
1,900.0	1,893.3	1,884.2	1,876.7	4.0	4.2	-127.26	-120.1	112.6	209.2	201.7	7.51	27.863			
2,000.0	1,992.7	1,983.0	1,975.0	4.3	4.5	-127.62	-128.9	119.1	224.1	216.1	7.95	28.173			
2,100.0	2,092.0	2,081.9	2,073.3	4.6	4.7	-127.94	-137.6	125.7	239.0	230.6	8.40	28.449			
2,200.0	2,191.4	2,180.8	2,171.5	4.8	5.0	-128.23	-146.4	132.3	253.9	245.1	8.85	28.696			
2,300.0	2,290.7	2,279.7	2,269.8	5.1	5.2	-128.48	-155.1	138.8	268.8	259.5	9.30	28.918			
2,400.0	2,390.0	2,378.5	2,368.1	5.3	5.5	-128.70	-163.9	145.4	283.8	274.0	9.75	29.119			
2,500.0	2,489.4	2,477.4	2,466.3	5.6	5.7	-128.91	-172.6	152.0	298.7	288.5	10.19	29.301			
2,600.0	2,588.7	2,576.3	2,564.6	5.9	6.0	-129.09	-181.4	158.5	313.6	303.0	10.64	29.468			
2,700.0	2,688.1	2,675.1	2,662.9	6.1	6.2	-129.26	-190.1	165.1	328.6	317.5	11.09	29.620			
2,800.0	2,787.4	2,774.0	2,761.1	6.4	6.5	-129.41	-198.9	171.6	343.5	332.0	11.54	29.761			
2,900.0	2,886.7	2,872.9	2,859.4	6.7	6.8	-129.55	-207.6	178.2	358.4	346.5	11.99	29.890			
3,000.0	2,986.1	2,971.8	2,957.7	6.9	7.0	-129.68	-216.4	184.8	373.4	360.9	12.44	30.010			
3,100.0	3,085.4	3,070.6	3,055.9	7.2	7.3	-129.79	-225.1	191.3	388.3	375.4	12.89	30.121			
3,200.0	3,184.8	3,169.5	3,154.2	7.5	7.5	-129.90	-233.8	197.9	403.3	389.9	13.34	30.225			
3,300.0	3,284.1	3,268.4	3,252.5	7.7	7.8	-130.01	-242.6	204.4	418.2	404.4	13.79	30.321			
3,400.0	3,383.4	3,367.3	3,350.7	8.0	8.0	-130.10	-251.3	211.0	433.2	418.9	14.24	30.411			
3,500.0	3,482.8	3,466.1	3,449.0	8.2	8.3	-130.19	-260.1	217.6	448.1	433.4	14.69	30.496			
3,600.0	3,582.1	3,565.0	3,547.3	8.5	8.6	-130.27	-268.8	224.1	463.1	447.9	15.15	30.575			
3,700.0	3,681.5	3,663.9	3,645.5	8.8	8.8	-130.35	-277.6	230.7	478.0	462.4	15.60	30.650			
3,800.0	3,780.8	3,762.8	3,743.8	9.0	9.1	-130.42	-286.3	237.3	493.0	476.9	16.05	30.720			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3P-32H-K268 - 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)		Between Centres (ft)	Between Ellipses (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	30.8	30.8	30.5	0.30	101.338		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	30.8	30.8	30.1	0.65	47.147 CC, ES		
300.0	300.0	299.6	299.6	0.5	0.5	90.96	-0.5	31.5	31.5	30.5	1.00	31.405		
400.0	400.0	399.1	399.0	0.7	0.7	93.61	-2.1	33.5	33.6	32.2	1.36	24.787		
500.0	500.0	498.5	498.3	0.9	0.9	-129.57	-4.8	36.9	37.4	35.7	1.70	21.974		
600.0	600.0	597.6	597.3	1.0	1.1	-127.25	-8.4	41.7	43.8	41.7	2.06	21.299 SF		
700.0	699.9	696.5	695.9	1.2	1.3	-126.18	-13.1	47.8	52.8	50.3	2.41	21.861		
800.0	799.8	794.9	793.9	1.4	1.5	-125.97	-18.9	55.2	64.3	61.5	2.78	23.133		
900.0	899.5	892.8	891.2	1.6	1.7	-126.24	-25.6	63.9	78.3	75.2	3.16	24.826		
1,000.0	999.2	990.2	987.7	1.8	2.0	-126.74	-33.3	73.8	94.9	91.4	3.55	26.765		
1,100.0	1,098.6	1,087.1	1,083.6	2.0	2.3	-127.34	-41.9	85.0	114.0	110.0	3.95	28.829		
1,200.0	1,197.9	1,185.0	1,180.4	2.3	2.6	-128.11	-50.9	96.7	134.1	129.8	4.37	30.663		
1,300.0	1,297.3	1,283.0	1,277.2	2.5	2.9	-128.69	-59.9	108.3	154.3	149.5	4.80	32.142		
1,400.0	1,396.6	1,380.9	1,374.0	2.8	3.2	-129.14	-69.0	120.0	174.5	169.2	5.23	33.357		
1,500.0	1,496.0	1,478.9	1,470.9	3.0	3.5	-129.50	-78.0	131.7	194.6	189.0	5.66	34.369		
1,600.0	1,595.3	1,576.8	1,567.7	3.3	3.8	-129.78	-87.0	143.4	214.8	208.7	6.10	35.224		
1,700.0	1,694.7	1,674.7	1,664.5	3.5	4.1	-130.02	-96.0	155.0	235.0	228.5	6.54	35.955		
1,800.0	1,794.0	1,772.7	1,761.3	3.8	4.4	-130.22	-105.1	166.7	255.2	248.2	6.98	36.586		
1,900.0	1,893.3	1,870.6	1,858.1	4.0	4.7	-130.39	-114.1	178.4	275.4	268.0	7.42	37.137		
2,000.0	1,992.7	1,968.5	1,954.9	4.3	5.0	-130.54	-123.1	190.1	295.6	287.7	7.86	37.621		
2,100.0	2,092.0	2,066.5	2,051.8	4.6	5.3	-130.67	-132.1	201.8	315.8	307.5	8.30	38.049		
2,200.0	2,191.4	2,164.4	2,148.6	4.8	5.6	-130.78	-141.2	213.4	336.0	327.2	8.74	38.431		
2,300.0	2,290.7	2,262.4	2,245.4	5.1	5.9	-130.89	-150.2	225.1	356.2	347.0	9.19	38.774		
2,400.0	2,390.0	2,360.3	2,342.2	5.3	6.2	-130.98	-159.2	236.8	376.4	366.7	9.63	39.083		
2,500.0	2,489.4	2,458.2	2,439.0	5.6	6.5	-131.06	-168.2	248.5	396.6	386.5	10.08	39.362		
2,600.0	2,588.7	2,556.2	2,535.9	5.9	6.9	-131.13	-177.2	260.2	416.8	406.3	10.52	39.617		
2,700.0	2,688.1	2,654.1	2,632.7	6.1	7.2	-131.19	-186.3	271.8	437.0	426.0	10.97	39.849		
2,800.0	2,787.4	2,752.0	2,729.5	6.4	7.5	-131.26	-195.3	283.5	457.2	445.8	11.41	40.062		
2,900.0	2,886.7	2,850.0	2,826.3	6.7	7.8	-131.31	-204.3	295.2	477.4	465.5	11.86	40.259		
3,000.0	2,986.1	2,947.9	2,923.1	6.9	8.1	-131.36	-213.3	306.9	497.6	485.3	12.30	40.440		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 4996-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	59.38	182.1	307.7	357.6					
100.0	100.0	99.0	99.0	0.2	0.2	59.38	182.1	307.7	357.6	357.3	0.32	1,102.997		
200.0	200.0	199.0	199.0	0.3	0.3	59.38	182.1	307.7	357.6	356.9	0.67	531.475		
300.0	300.0	299.0	299.0	0.5	0.5	59.38	182.1	307.7	357.6	356.6	1.02	350.080		
400.0	400.0	399.0	399.0	0.7	0.7	59.38	182.1	307.7	357.6	356.2	1.37	260.999 CC		
427.8	427.8	426.8	426.8	0.7	0.7	-167.28	182.1	307.7	357.6	356.2	1.47	243.787		
500.0	500.0	499.0	499.0	0.9	0.9	-167.29	182.1	307.7	357.8	356.1	1.72	208.186 ES		
600.0	600.0	599.0	599.0	1.0	1.0	-167.35	182.1	307.7	359.5	357.5	2.07	173.929		
700.0	699.9	698.9	698.9	1.2	1.2	-167.46	182.1	307.7	362.9	360.5	2.42	150.280		
800.0	799.8	798.8	798.8	1.4	1.4	-167.62	182.1	307.7	368.0	365.3	2.76	133.222		
900.0	899.5	898.5	898.5	1.6	1.6	-167.84	182.1	307.7	374.9	371.7	3.11	120.542		
1,000.0	999.2	998.2	998.2	1.8	1.7	-168.10	182.1	307.7	383.4	379.9	3.46	110.919		
1,100.0	1,098.6	1,097.6	1,097.6	2.0	1.9	-168.39	182.1	307.7	393.6	389.8	3.80	103.511		
1,200.0	1,197.9	1,196.9	1,196.9	2.3	2.1	-168.71	182.1	307.7	404.9	400.7	4.15	97.515		
1,300.0	1,297.3	1,296.3	1,296.3	2.5	2.3	-169.02	182.1	307.7	416.1	411.6	4.50	92.442		
1,400.0	1,396.6	1,395.6	1,395.6	2.8	2.4	-169.31	182.1	307.7	427.4	422.5	4.85	88.104		
1,500.0	1,496.0	1,495.0	1,495.0	3.0	2.6	-169.59	182.1	307.7	438.6	433.4	5.20	84.354		
1,600.0	1,595.3	1,594.3	1,594.3	3.3	2.8	-169.86	182.1	307.7	449.9	444.4	5.55	81.079		
1,700.0	1,694.7	1,693.7	1,693.7	3.5	2.9	-170.11	182.1	307.7	461.2	455.3	5.90	78.195		
1,800.0	1,794.0	1,793.0	1,793.0	3.8	3.1	-170.35	182.1	307.7	472.5	466.3	6.25	75.637		
1,900.0	1,893.3	1,892.3	1,892.3	4.0	3.3	-170.57	182.1	307.7	483.8	477.2	6.60	73.352		
2,000.0	1,992.7	1,991.7	1,991.7	4.3	3.5	-170.79	182.1	307.7	495.1	488.2	6.94	71.299 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8140-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	
3,000.0	2,986.1	2,975.1	2,975.1	6.9	5.2	-4.76	-543.5	-516.5	495.7	485.3	10.40	47.660		
3,100.0	3,085.4	3,074.4	3,074.4	7.2	5.4	-4.87	-543.5	-516.5	484.2	473.5	10.75	45.050		
3,200.0	3,184.8	3,173.8	3,173.8	7.5	5.5	-4.99	-543.5	-516.5	472.8	461.7	11.10	42.604		
3,300.0	3,284.1	3,273.1	3,273.1	7.7	5.7	-5.11	-543.5	-516.5	461.4	449.9	11.45	40.306		
3,400.0	3,383.4	3,372.4	3,372.4	8.0	5.9	-5.24	-543.5	-516.5	450.0	438.2	11.80	38.145		
3,500.0	3,482.8	3,471.8	3,471.8	8.2	6.1	-5.38	-543.5	-516.5	438.6	426.4	12.15	36.107		
3,600.0	3,582.1	3,571.1	3,571.1	8.5	6.2	-5.52	-543.5	-516.5	427.1	414.7	12.50	34.183		
3,700.0	3,681.5	3,670.5	3,670.5	8.8	6.4	-5.67	-543.5	-516.5	415.7	402.9	12.85	32.364		
3,800.0	3,780.8	3,769.8	3,769.8	9.0	6.6	-5.83	-543.5	-516.5	404.3	391.1	13.20	30.641		
3,900.0	3,880.1	3,869.1	3,869.1	9.3	6.8	-6.00	-543.5	-516.5	392.9	379.4	13.55	29.006		
4,000.0	3,979.5	3,968.5	3,968.5	9.6	6.9	-6.18	-543.5	-516.5	381.5	367.6	13.90	27.454		
4,100.0	4,078.8	4,067.8	4,067.8	9.8	7.1	-6.38	-543.5	-516.5	370.1	355.9	14.25	25.977		
4,200.0	4,178.2	4,167.2	4,167.2	10.1	7.3	-6.58	-543.5	-516.5	358.7	344.1	14.60	24.571		
4,300.0	4,277.5	4,266.5	4,266.5	10.4	7.4	-6.80	-543.5	-516.5	347.3	332.4	14.95	23.231		
4,400.0	4,376.8	4,365.8	4,365.8	10.6	7.6	-7.03	-543.5	-516.5	336.0	320.7	15.30	21.953		
4,500.0	4,476.2	4,465.2	4,465.2	10.9	7.8	-7.27	-543.5	-516.5	324.6	308.9	15.66	20.731		
4,600.0	4,575.5	4,564.5	4,564.5	11.2	8.0	-7.54	-543.5	-516.5	313.2	297.2	16.01	19.563		
4,700.0	4,674.9	4,663.9	4,663.9	11.4	8.1	-7.83	-543.5	-516.5	301.8	285.5	16.37	18.445		
4,800.0	4,774.2	4,763.2	4,763.2	11.7	8.3	-8.13	-543.5	-516.5	290.5	273.8	16.72	17.373		
4,900.0	4,873.5	4,862.5	4,862.5	12.0	8.5	-8.47	-543.5	-516.5	279.1	262.1	17.08	16.346		
5,000.0	4,972.9	4,961.9	4,961.9	12.2	8.7	-8.83	-543.5	-516.5	267.8	250.4	17.43	15.361		
5,100.0	5,072.2	5,061.2	5,061.2	12.5	8.8	-9.22	-543.5	-516.5	256.5	238.7	17.79	14.414		
5,200.0	5,171.6	5,160.6	5,160.6	12.7	9.0	-9.65	-543.5	-516.5	245.2	227.0	18.16	13.504		
5,300.0	5,270.9	5,259.9	5,259.9	13.0	9.2	-10.12	-543.5	-516.5	233.9	215.4	18.52	12.629		
5,400.0	5,370.3	5,359.3	5,359.3	13.3	9.4	-10.64	-543.5	-516.5	222.6	203.7	18.88	11.787		
5,500.0	5,469.6	5,458.6	5,458.6	13.5	9.5	-11.21	-543.5	-516.5	211.3	192.1	19.25	10.977		
5,600.0	5,568.9	5,557.9	5,557.9	13.8	9.7	-11.85	-543.5	-516.5	200.1	180.5	19.63	10.196		
5,700.0	5,668.3	5,657.3	5,657.3	14.1	9.9	-12.57	-543.5	-516.5	188.9	168.9	20.00	9.443		
5,800.0	5,767.6	5,756.6	5,756.6	14.3	10.0	-13.37	-543.5	-516.5	177.7	157.3	20.39	8.717		
5,900.0	5,867.0	5,856.0	5,856.0	14.6	10.2	-14.28	-543.5	-516.5	166.6	145.8	20.78	8.017		
6,000.0	5,966.3	5,955.3	5,955.3	14.9	10.4	-15.32	-543.5	-516.5	155.5	134.3	21.18	7.341		
6,100.0	6,065.6	6,054.6	6,054.6	15.1	10.6	-16.52	-543.5	-516.5	144.5	122.9	21.59	6.690		
6,200.0	6,165.0	6,154.0	6,154.0	15.4	10.7	-17.92	-543.5	-516.5	133.5	111.5	22.02	6.061		
6,300.0	6,264.3	6,253.3	6,253.3	15.7	10.9	-19.57	-543.5	-516.5	122.6	100.2	22.48	5.456		
6,400.0	6,363.7	6,352.7	6,352.7	15.9	11.1	-21.54	-543.5	-516.5	111.9	88.9	22.96	4.873		
6,500.0	6,463.0	6,452.0	6,452.0	16.2	11.3	-23.91	-543.5	-516.5	101.3	77.8	23.49	4.313		
6,600.0	6,562.3	6,551.3	6,551.3	16.5	11.4	-26.84	-543.5	-516.5	90.9	66.8	24.07	3.777		
6,700.0	6,661.7	6,650.7	6,650.7	16.7	11.6	-30.50	-543.5	-516.5	80.8	56.1	24.74	3.268		
6,800.0	6,761.0	6,750.0	6,750.0	17.0	11.8	-35.18	-543.5	-516.5	71.2	45.7	25.53	2.789		
6,852.8	6,813.5	6,802.5	6,802.5	17.1	11.9	-90.00	-543.5	-516.5	68.7	42.7	26.03	2.639 CC, ES, SF		
6,900.0	6,860.5	6,849.5	6,849.5	17.2	12.0	-133.24	-543.5	-516.5	70.6	44.2	26.38	2.677		
7,000.0	6,958.4	6,947.4	6,947.4	17.2	12.1	-163.90	-543.5	-516.5	88.4	61.8	26.54	3.330		
7,100.0	7,051.7	7,040.7	7,040.7	17.1	12.3	-174.06	-543.5	-516.5	123.5	97.7	25.84	4.781		
7,200.0	7,137.6	7,126.6	7,126.6	16.9	12.4	-178.70	-543.5	-516.5	174.5	150.0	24.44	7.140		
7,300.0	7,213.4	7,202.4	7,202.4	16.7	12.6	178.67	-543.5	-516.5	239.5	216.9	22.58	10.609		
7,400.0	7,276.9	7,265.9	7,265.9	16.5	12.7	176.58	-543.5	-516.5	316.6	296.1	20.49	15.451		
7,500.0	7,326.1	7,315.1	7,315.1	16.4	12.8	173.99	-543.5	-516.5	403.4	384.9	18.51	21.796		
7,600.0	7,359.5	7,348.5	7,348.5	16.4	12.8	168.68	-543.5	-516.5	497.4	480.2	17.26	28.828		

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 File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8184-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	
9,100.0	7,378.0	7,355.0	7,355.0	31.7	12.8	-90.00	1,673.5	-972.4	474.0	430.9	43.05	11.010		
9,200.0	7,378.0	7,355.0	7,355.0	33.3	12.8	-90.00	1,673.5	-972.4	436.1	391.4	44.64	9.770		
9,300.0	7,378.0	7,355.0	7,355.0	34.8	12.8	-90.00	1,673.5	-972.4	419.1	372.9	46.24	9.064		
9,322.4	7,378.0	7,355.0	7,355.0	35.1	12.8	-90.00	1,673.5	-972.4	418.5	371.9	46.60	8.981 CC, ES		
9,400.0	7,378.0	7,355.0	7,355.0	36.3	12.8	-90.00	1,673.5	-972.4	425.7	377.8	47.86	8.894 SF		
9,500.0	7,378.0	7,355.0	7,355.0	37.9	12.8	-90.00	1,673.5	-972.4	454.7	405.2	49.49	9.187		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 8100-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
9,100.0	7,378.0	7,292.0	7,292.0	31.7	12.7	-90.00	1,684.1	-963.2	471.0	428.0	42.94	10.968	
9,200.0	7,378.0	7,292.0	7,292.0	33.3	12.7	-90.00	1,684.1	-963.2	430.4	385.9	44.53	9.666	
9,300.0	7,378.0	7,292.0	7,292.0	34.8	12.7	-90.00	1,684.1	-963.2	410.6	364.5	46.13	8.902	
9,333.0	7,378.0	7,292.0	7,292.0	35.3	12.7	-90.00	1,684.1	-963.2	409.3	362.6	46.66	8.771 CC, ES	
9,400.0	7,378.0	7,292.0	7,292.0	36.3	12.7	-90.00	1,684.1	-963.2	414.8	367.0	47.75	8.686 SF	
9,500.0	7,378.0	7,292.0	7,292.0	37.9	12.7	-90.00	1,684.1	-963.2	442.1	392.7	49.38	8.953	
9,600.0	7,378.0	7,292.0	7,292.0	39.5	12.7	-90.00	1,684.1	-963.2	488.7	437.7	51.02	9.578	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 8140-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	71.34	154.1	456.3	491.3						
100.0	100.0	3.0	3.0	0.2	0.0	71.34	154.1	456.3	481.6	481.5	0.16	3,062.191			
200.0	200.0	103.0	103.0	0.3	0.2	71.34	154.1	456.3	481.6	481.1	0.51	951.174			
300.0	300.0	203.0	203.0	0.5	0.4	71.34	154.1	456.3	481.6	480.8	0.86	563.031			
400.0	400.0	303.0	303.0	0.7	0.5	71.34	154.1	456.3	481.6	480.4	1.20	399.861 CC			
427.8	427.8	330.8	330.8	0.7	0.6	-155.32	154.1	456.3	481.7	480.3	1.30	370.084			
500.0	500.0	403.0	403.0	0.9	0.7	-155.33	154.1	456.3	481.8	480.3	1.55	310.149 ES			
600.0	600.0	503.0	503.0	1.0	0.9	-155.41	154.1	456.3	483.4	481.5	1.90	254.092			
700.0	699.9	602.9	602.9	1.2	1.1	-155.57	154.1	456.3	486.6	484.3	2.25	216.093			
800.0	799.8	702.8	702.8	1.4	1.2	-155.80	154.1	456.3	491.4	488.7	2.60	188.866			
900.0	899.5	802.5	802.5	1.6	1.4	-156.10	154.1	456.3	497.7	494.8	2.95	168.581 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design											S32-T2N-R68W (File) - RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO SURVEYS			Offset Site Error:		0.0 ft
Survey Program:											8244-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 +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
9,100.0	7,378.0	7,355.0	7,355.0	31.7	12.8	-90.00	1,673.5	-978.9	479.7	436.6	43.05	11.142				
9,200.0	7,378.0	7,355.0	7,355.0	33.3	12.8	-90.00	1,673.5	-978.9	442.3	397.6	44.64	9.908				
9,300.0	7,378.0	7,355.0	7,355.0	34.8	12.8	-90.00	1,673.5	-978.9	425.6	379.3	46.24	9.203				
9,322.4	7,378.0	7,355.0	7,355.0	35.1	12.8	-90.00	1,673.5	-978.9	425.0	378.4	46.60	9.119 CC, ES				
9,400.0	7,378.0	7,355.0	7,355.0	36.3	12.8	-90.00	1,673.5	-978.9	432.0	384.1	47.86	9.027 SF				
9,500.0	7,378.0	7,355.0	7,355.0	37.9	12.8	-90.00	1,673.5	-978.9	460.6	411.1	49.49	9.307				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 60-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis				Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	3.2	3.2	0.0	0.0	67.55	185.4	448.8	485.6				
100.0	100.0	105.2	105.2	0.2	0.2	67.40	186.4	447.8	485.0	484.7	0.31	1,565.712	
125.3	125.3	128.4	128.3	0.2	0.2	67.34	186.8	447.5	484.9	484.6	0.39	1,228.481	CC, ES
200.0	200.0	196.0	196.0	0.3	0.3	67.14	188.6	447.3	485.5	484.8	0.64	754.223	
300.0	300.0	283.2	283.0	0.5	0.5	66.79	192.2	448.4	488.2	487.3	0.97	503.623	
400.0	400.0	366.4	366.0	0.7	0.7	66.36	197.5	451.2	493.9	492.6	1.29	383.612	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 60-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	3.1	3.1	0.0	0.0	69.83	167.6	456.0	485.8						
100.0	100.0	104.9	104.9	0.2	0.2	69.88	167.0	455.9	485.5	485.2	0.31	1,580.920			
189.5	189.5	192.5	192.5	0.3	0.3	70.08	165.3	456.2	485.2	484.6	0.62	786.357 CC			
200.0	200.0	202.0	202.0	0.3	0.3	70.12	165.0	456.3	485.2	484.6	0.65	743.880 ES			
300.0	300.0	298.1	298.0	0.5	0.5	70.69	160.7	458.4	485.8	484.8	1.00	484.020			
400.0	400.0	390.7	390.2	0.7	0.7	71.59	153.8	462.3	487.4	486.0	1.37	356.687			
500.0	500.0	482.1	481.0	0.9	0.9	-153.94	145.7	468.6	491.4	489.7	1.78	275.416			
600.0	600.0	579.2	577.3	1.0	1.2	-152.63	135.8	476.5	497.9	495.6	2.21	225.124 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3L-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3L-32H-K268	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 #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4971.0ft (Original Well Elev)

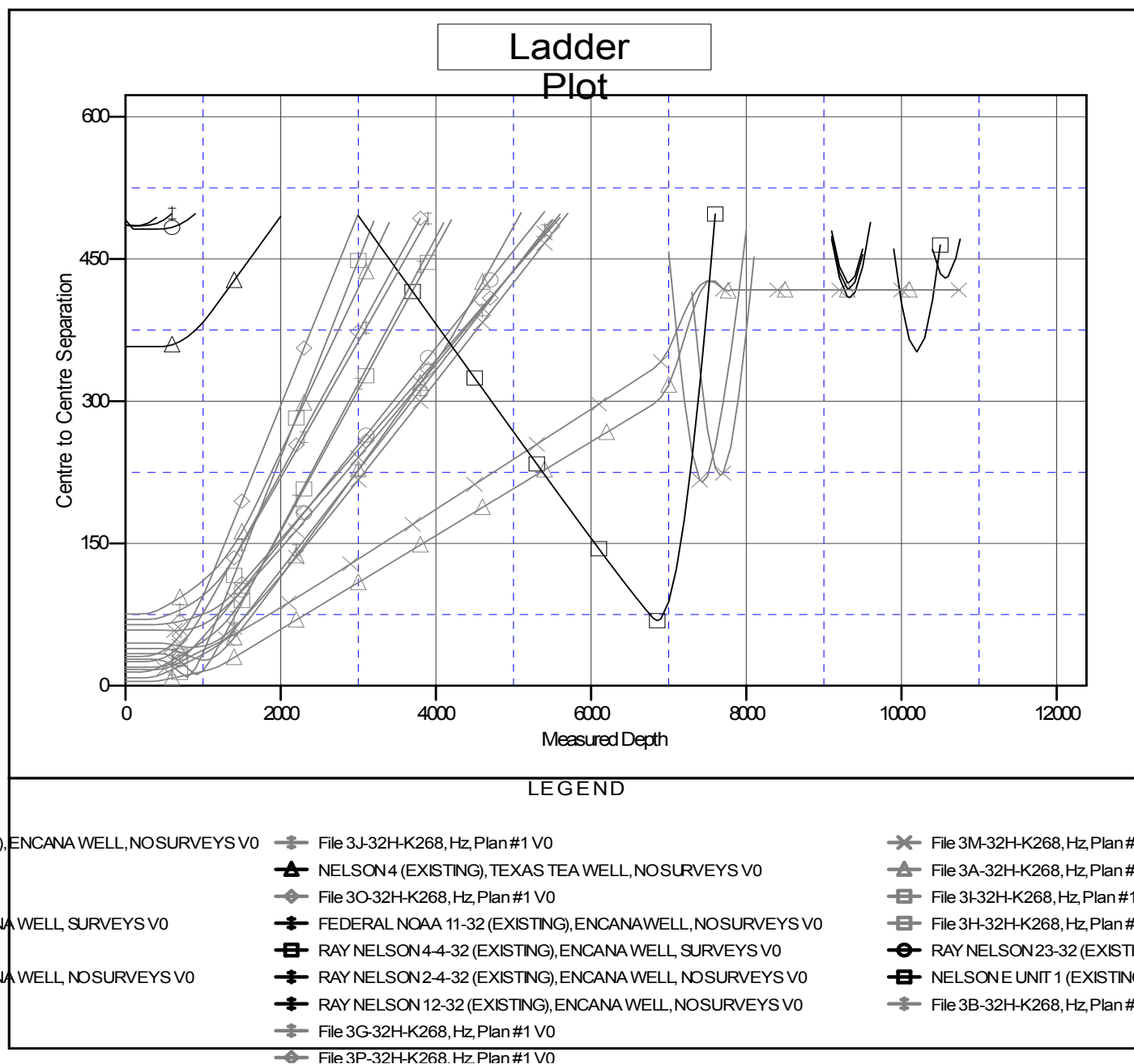
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: File 3L-32H-K268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°



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