

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3O-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 3O-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 3O-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,917.58 ft	Latitude:	40.092570
	+E/-W	0.0 ft	Easting:	3,131,258.50 ft	Longitude:	-105.030860
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	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
901.9	6.52	141.28	900.5	-28.9	23.2	1.00	1.00	0.00	141.28	
7,024.5	6.52	141.28	6,983.5	-571.3	458.0	0.00	0.00	0.00	0.00	
7,975.7	90.00	359.50	7,606.0	-0.2	497.0	10.00	8.78	-14.91	-141.60	
11,079.7	90.00	359.50	7,606.0	3,103.7	470.0	0.00	0.00	0.00	0.00	File 3O-32H-K268 PB

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Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3O-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	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 250'
271.0	0.21	141.28	271.0	0.0	0.0	0.0	1.00	1.00	Fox Hills - BASE
300.0	0.50	141.28	300.0	-0.2	0.1	-0.2	1.00	1.00	
400.0	1.50	141.28	400.0	-1.5	1.2	-1.5	1.00	1.00	
500.0	2.50	141.28	499.9	-4.3	3.4	-4.3	1.00	1.00	
600.0	3.50	141.28	599.8	-8.3	6.7	-8.3	1.00	1.00	
700.0	4.50	141.28	699.5	-13.8	11.0	-13.8	1.00	1.00	
800.0	5.50	141.28	799.2	-20.6	16.5	-20.6	1.00	1.00	
900.0	6.50	141.28	898.6	-28.7	23.0	-28.7	1.00	1.00	
901.9	6.52	141.28	900.5	-28.9	23.2	-28.9	1.00	1.00	EOB; Inc=3.52°
1,000.0	6.52	141.28	998.0	-37.6	30.1	-37.6	0.00	0.00	
1,100.0	6.52	141.28	1,097.3	-46.5	37.2	-46.5	0.00	0.00	
1,200.0	6.52	141.28	1,196.7	-55.3	44.3	-55.3	0.00	0.00	
1,300.0	6.52	141.28	1,296.0	-64.2	51.4	-64.2	0.00	0.00	
1,400.0	6.52	141.28	1,395.4	-73.0	58.6	-73.0	0.00	0.00	
1,500.0	6.52	141.28	1,494.7	-81.9	65.7	-81.9	0.00	0.00	
1,600.0	6.52	141.28	1,594.1	-90.7	72.8	-90.7	0.00	0.00	
1,700.0	6.52	141.28	1,693.4	-99.6	79.9	-99.6	0.00	0.00	
1,800.0	6.52	141.28	1,792.8	-108.5	87.0	-108.5	0.00	0.00	
1,900.0	6.52	141.28	1,892.1	-117.3	94.1	-117.3	0.00	0.00	
2,000.0	6.52	141.28	1,991.5	-126.2	101.2	-126.2	0.00	0.00	
2,100.0	6.52	141.28	2,090.8	-135.0	108.3	-135.0	0.00	0.00	
2,200.0	6.52	141.28	2,190.2	-143.9	115.4	-143.9	0.00	0.00	
2,300.0	6.52	141.28	2,289.6	-152.7	122.5	-152.7	0.00	0.00	
2,400.0	6.52	141.28	2,388.9	-161.6	129.6	-161.6	0.00	0.00	
2,500.0	6.52	141.28	2,488.3	-170.5	136.7	-170.5	0.00	0.00	
2,600.0	6.52	141.28	2,587.6	-179.3	143.8	-179.3	0.00	0.00	
2,700.0	6.52	141.28	2,687.0	-188.2	150.9	-188.2	0.00	0.00	
2,800.0	6.52	141.28	2,786.3	-197.0	158.0	-197.0	0.00	0.00	
2,900.0	6.52	141.28	2,885.7	-205.9	165.1	-205.9	0.00	0.00	
3,000.0	6.52	141.28	2,985.0	-214.8	172.2	-214.8	0.00	0.00	
3,100.0	6.52	141.28	3,084.4	-223.6	179.3	-223.6	0.00	0.00	
3,200.0	6.52	141.28	3,183.7	-232.5	186.4	-232.5	0.00	0.00	
3,300.0	6.52	141.28	3,283.1	-241.3	193.5	-241.3	0.00	0.00	
3,400.0	6.52	141.28	3,382.4	-250.2	200.6	-250.2	0.00	0.00	
3,500.0	6.52	141.28	3,481.8	-259.0	207.7	-259.0	0.00	0.00	
3,600.0	6.52	141.28	3,581.1	-267.9	214.8	-267.9	0.00	0.00	
3,700.0	6.52	141.28	3,680.5	-276.8	221.9	-276.8	0.00	0.00	
3,800.0	6.52	141.28	3,779.9	-285.6	229.0	-285.6	0.00	0.00	
3,900.0	6.52	141.28	3,879.2	-294.5	236.1	-294.5	0.00	0.00	
4,000.0	6.52	141.28	3,978.6	-303.3	243.2	-303.3	0.00	0.00	
4,100.0	6.52	141.28	4,077.9	-312.2	250.3	-312.2	0.00	0.00	
4,200.0	6.52	141.28	4,177.3	-321.1	257.4	-321.1	0.00	0.00	
4,300.0	6.52	141.28	4,276.6	-329.9	264.5	-329.9	0.00	0.00	
4,350.7	6.52	141.28	4,327.0	-334.4	268.1	-334.4	0.00	0.00	Sussex
4,400.0	6.52	141.28	4,376.0	-338.8	271.6	-338.8	0.00	0.00	
4,500.0	6.52	141.28	4,475.3	-347.6	278.7	-347.6	0.00	0.00	
4,600.0	6.52	141.28	4,574.7	-356.5	285.8	-356.5	0.00	0.00	
4,633.5	6.52	141.28	4,608.0	-359.5	288.2	-359.5	0.00	0.00	Sussex Marker

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Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3O-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	6.52	141.28	4,674.0	-365.3	292.9	-365.3	0.00	0.00	
4,800.0	6.52	141.28	4,773.4	-374.2	300.0	-374.2	0.00	0.00	
4,900.0	6.52	141.28	4,872.7	-383.1	307.1	-383.1	0.00	0.00	
4,927.4	6.52	141.28	4,900.0	-385.5	309.1	-385.5	0.00	0.00	Shannon
5,000.0	6.52	141.28	4,972.1	-391.9	314.2	-391.9	0.00	0.00	
5,100.0	6.52	141.28	5,071.4	-400.8	321.3	-400.8	0.00	0.00	
5,200.0	6.52	141.28	5,170.8	-409.6	328.4	-409.6	0.00	0.00	
5,300.0	6.52	141.28	5,270.2	-418.5	335.5	-418.5	0.00	0.00	
5,400.0	6.52	141.28	5,369.5	-427.4	342.6	-427.4	0.00	0.00	
5,500.0	6.52	141.28	5,468.9	-436.2	349.7	-436.2	0.00	0.00	
5,600.0	6.52	141.28	5,568.2	-445.1	356.8	-445.1	0.00	0.00	
5,700.0	6.52	141.28	5,667.6	-453.9	363.9	-453.9	0.00	0.00	
5,800.0	6.52	141.28	5,766.9	-462.8	371.0	-462.8	0.00	0.00	
5,900.0	6.52	141.28	5,866.3	-471.6	378.2	-471.6	0.00	0.00	
6,000.0	6.52	141.28	5,965.6	-480.5	385.3	-480.5	0.00	0.00	
6,100.0	6.52	141.28	6,065.0	-489.4	392.4	-489.4	0.00	0.00	
6,200.0	6.52	141.28	6,164.3	-498.2	399.5	-498.2	0.00	0.00	
6,300.0	6.52	141.28	6,263.7	-507.1	406.6	-507.1	0.00	0.00	
6,400.0	6.52	141.28	6,363.0	-515.9	413.7	-515.9	0.00	0.00	
6,500.0	6.52	141.28	6,462.4	-524.8	420.8	-524.8	0.00	0.00	
6,600.0	6.52	141.28	6,561.7	-533.7	427.9	-533.7	0.00	0.00	
6,700.0	6.52	141.28	6,661.1	-542.5	435.0	-542.5	0.00	0.00	
6,800.0	6.52	141.28	6,760.5	-551.4	442.1	-551.4	0.00	0.00	
6,839.8	6.52	141.28	6,800.0	-554.9	444.9	-554.9	0.00	0.00	Teepee Buttes (*if present)
6,900.0	6.52	141.28	6,859.8	-560.2	449.2	-560.2	0.00	0.00	
7,000.0	6.52	141.28	6,959.2	-569.1	456.3	-569.1	0.00	0.00	
7,024.5	6.52	141.28	6,983.5	-571.3	458.0	-571.3	0.00	0.00	Start build/turn @ 7024' MD
7,100.0	4.72	58.42	7,058.7	-573.0	463.4	-573.0	10.00	-2.38	
7,200.0	13.07	17.24	7,157.5	-560.0	470.2	-560.0	10.00	8.35	
7,251.4	18.02	12.06	7,207.0	-546.7	473.6	-546.7	10.00	9.64	Sharon Springs
7,300.0	22.78	9.19	7,252.6	-530.0	476.7	-530.0	10.00	9.79	
7,362.7	28.97	6.84	7,309.0	-502.9	480.4	-502.9	10.00	9.87	Niobrara
7,400.0	32.66	5.83	7,341.0	-483.9	482.5	-483.9	10.00	9.90	
7,432.7	35.90	5.11	7,368.0	-465.6	484.3	-465.6	10.00	9.92	B Chalk
7,475.9	40.19	4.30	7,402.0	-439.1	486.5	-439.1	10.00	9.93	B Marl
7,500.0	42.59	3.91	7,420.1	-423.2	487.6	-423.2	10.00	9.94	
7,566.0	49.15	3.00	7,466.0	-376.0	490.4	-376.0	10.00	9.95	C Chalk
7,600.0	52.54	2.61	7,487.5	-349.6	491.7	-349.6	10.00	9.96	
7,619.3	54.47	2.39	7,499.0	-334.1	492.4	-334.1	10.00	9.96	C Marl
7,700.0	62.51	1.61	7,541.1	-265.4	494.8	-265.4	10.00	9.97	
7,792.4	71.72	0.84	7,577.0	-180.4	496.6	-180.4	10.00	9.97	Ft. Hayes
7,800.0	72.48	0.78	7,579.3	-173.1	496.7	-173.1	10.00	9.97	
7,868.3	79.29	0.27	7,596.0	-106.9	497.3	-106.9	10.00	9.97	Codell
7,900.0	82.45	0.04	7,601.0	-75.7	497.4	-75.7	10.00	9.97	
7,975.7	90.00	359.50	7,606.0	-0.2	497.0	-0.2	10.00	9.97	LP @ 7606' TVD; 90°
8,000.0	90.00	359.50	7,606.0	24.1	496.8	24.1	0.00	0.00	
8,100.0	90.00	359.50	7,606.0	124.1	496.0	124.1	0.00	0.00	
8,200.0	90.00	359.50	7,606.0	224.1	495.1	224.1	0.00	0.00	
8,300.0	90.00	359.50	7,606.0	324.1	494.2	324.1	0.00	0.00	
8,400.0	90.00	359.50	7,606.0	424.1	493.3	424.1	0.00	0.00	
8,500.0	90.00	359.50	7,606.0	524.1	492.5	524.1	0.00	0.00	
8,600.0	90.00	359.50	7,606.0	624.1	491.6	624.1	0.00	0.00	

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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 3O-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
8,700.0	90.00	359.50	7,606.0	724.1	490.7	724.1	0.00	0.00	
8,800.0	90.00	359.50	7,606.0	824.1	489.9	824.1	0.00	0.00	
8,900.0	90.00	359.50	7,606.0	924.1	489.0	924.1	0.00	0.00	
9,000.0	90.00	359.50	7,606.0	1,024.1	488.1	1,024.1	0.00	0.00	
9,100.0	90.00	359.50	7,606.0	1,124.1	487.2	1,124.1	0.00	0.00	
9,200.0	90.00	359.50	7,606.0	1,224.1	486.4	1,224.1	0.00	0.00	
9,300.0	90.00	359.50	7,606.0	1,324.1	485.5	1,324.1	0.00	0.00	
9,400.0	90.00	359.50	7,606.0	1,424.1	484.6	1,424.1	0.00	0.00	
9,500.0	90.00	359.50	7,606.0	1,524.1	483.7	1,524.1	0.00	0.00	
9,600.0	90.00	359.50	7,606.0	1,624.1	482.9	1,624.1	0.00	0.00	
9,700.0	90.00	359.50	7,606.0	1,724.1	482.0	1,724.1	0.00	0.00	
9,800.0	90.00	359.50	7,606.0	1,824.1	481.1	1,824.1	0.00	0.00	
9,900.0	90.00	359.50	7,606.0	1,924.1	480.3	1,924.1	0.00	0.00	
10,000.0	90.00	359.50	7,606.0	2,024.0	479.4	2,024.0	0.00	0.00	
10,100.0	90.00	359.50	7,606.0	2,124.0	478.5	2,124.0	0.00	0.00	
10,200.0	90.00	359.50	7,606.0	2,224.0	477.6	2,224.0	0.00	0.00	
10,300.0	90.00	359.50	7,606.0	2,324.0	476.8	2,324.0	0.00	0.00	
10,400.0	90.00	359.50	7,606.0	2,424.0	475.9	2,424.0	0.00	0.00	
10,500.0	90.00	359.50	7,606.0	2,524.0	475.0	2,524.0	0.00	0.00	
10,600.0	90.00	359.50	7,606.0	2,624.0	474.1	2,624.0	0.00	0.00	
10,700.0	90.00	359.50	7,606.0	2,724.0	473.3	2,724.0	0.00	0.00	
10,800.0	90.00	359.50	7,606.0	2,824.0	472.4	2,824.0	0.00	0.00	
10,900.0	90.00	359.50	7,606.0	2,924.0	471.5	2,924.0	0.00	0.00	
11,000.0	90.00	359.50	7,606.0	3,024.0	470.7	3,024.0	0.00	0.00	
11,079.7	90.00	359.50	7,606.0	3,103.7	470.0	3,103.7	0.00	0.00	TD at 11079.7

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 3O-32H-K268 PBHL	0.00	0.00	7,606.0	3,103.7	470.0	1,280,023.68	3,131,712.04	40.101090	-105.029180
- plan hits target center									
- Point									

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Well:	File 3O-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
271.0	271.0	Fox Hills - BASE				
4,350.7	4,327.0	Sussex				
4,633.5	4,608.0	Sussex Marker				
4,927.4	4,900.0	Shannon				
6,839.8	6,800.0	Teepee Buttes (*if present)				
7,251.4	7,207.0	Sharon Springs				
7,362.7	7,309.0	Niobrara				
7,432.7	7,368.0	B Chalk				
7,475.9	7,402.0	B Marl				
7,566.0	7,466.0	C Chalk				
7,619.3	7,499.0	C Marl				
7,792.4	7,577.0	Ft. Hayes				
7,868.3	7,596.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
250.0	250.0	0.0	0.0	KOP @ 250'	
901.9	900.5	-28.9	23.2	EOB; Inc=3.52°	
7,024.5	6,983.5	-571.3	458.0	Start build/turn @ 7024' MD	
7,975.7	7,606.0	-0.2	497.0	LP @ 7606' TVD; 90°	
11,079.7	7,606.0	3,103.7	470.0	TD at 11079.7	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3O-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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	11,077.4	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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	11,030.2	7,572.0	173.9	103.7	2.478	CC, ES, SF
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -	11,030.1	7,572.0	165.5	95.3	2.358	CC, ES, SF
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
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						Out of range
File 3A-32H-K268 - Hz - Plan #1	200.0	199.0	100.7	100.1	154.712	CC, ES
File 3A-32H-K268 - Hz - Plan #1	900.0	880.2	166.5	163.4	52.872	SF
File 3B-32H-K268 - Hz - Plan #1	200.0	199.0	95.2	94.5	146.224	CC
File 3B-32H-K268 - Hz - Plan #1	300.0	299.0	95.3	94.3	95.327	ES
File 3B-32H-K268 - Hz - Plan #1	900.0	883.3	152.6	149.5	48.790	SF
File 3C-32H-K268 - Hz - Plan #1	200.0	199.0	89.5	88.9	137.522	CC
File 3C-32H-K268 - Hz - Plan #1	300.0	299.0	89.7	88.7	89.655	ES
File 3C-32H-K268 - Hz - Plan #1	900.0	887.8	135.1	132.0	42.824	SF
File 3D-32H-K268 - Hz - Plan #1	200.0	199.0	84.0	83.4	129.048	CC
File 3D-32H-K268 - Hz - Plan #1	300.0	299.0	84.2	83.2	84.147	ES
File 3D-32H-K268 - Hz - Plan #1	900.0	889.5	125.2	122.0	39.994	SF
File 3E-32H-K268 - Hz - Plan #1	200.0	200.0	69.9	69.3	107.151	CC
File 3E-32H-K268 - Hz - Plan #1	300.0	300.0	70.1	69.1	69.951	ES
File 3E-32H-K268 - Hz - Plan #1	800.0	796.1	92.2	89.4	33.222	SF
File 3F-32H-K268 - Hz - Plan #1	200.0	200.0	64.5	63.8	98.736	CC
File 3F-32H-K268 - Hz - Plan #1	300.0	300.0	64.6	63.6	64.478	ES
File 3F-32H-K268 - Hz - Plan #1	1,100.0	1,097.3	113.3	109.4	29.478	SF
File 3G-32H-K268 - Hz - Plan #1	200.0	200.0	58.8	58.1	90.007	CC
File 3G-32H-K268 - Hz - Plan #1	300.0	300.0	58.9	57.9	58.781	ES
File 3G-32H-K268 - Hz - Plan #1	7,400.0	7,635.2	217.2	185.8	6.904	SF
File 3H-32H-K268 - Hz - Plan #1	200.0	200.0	53.3	52.6	81.626	CC
File 3H-32H-K268 - Hz - Plan #1	300.0	300.0	53.4	52.4	53.331	ES
File 3H-32H-K268 - Hz - Plan #1	7,723.7	7,685.9	189.1	160.8	6.675	SF
File 3I-32H-K268 - Hz - Plan #1	200.0	200.0	39.2	38.5	60.005	CC, ES
File 3I-32H-K268 - Hz - Plan #1	600.0	596.4	58.8	56.8	28.496	SF
File 3J-32H-K268 - Hz - Plan #1	200.0	200.0	33.8	33.1	51.735	CC
File 3J-32H-K268 - Hz - Plan #1	227.8	227.8	33.8	33.0	45.073	ES
File 3J-32H-K268 - Hz - Plan #1	600.0	597.5	50.2	48.2	24.335	SF
File 3K-32H-K268 - Hz - Plan #1	200.0	200.0	28.0	27.3	42.861	CC
File 3K-32H-K268 - Hz - Plan #1	300.0	300.0	28.1	27.1	28.063	ES
File 3K-32H-K268 - Hz - Plan #1	600.0	598.6	39.5	37.4	19.136	SF
File 3L-32H-K268 - Hz - Plan #1	200.0	200.0	25.4	24.8	38.976	CC
File 3L-32H-K268 - Hz - Plan #1	300.0	300.0	25.6	24.6	25.555	ES
File 3L-32H-K268 - Hz - Plan #1	600.0	599.4	34.9	32.9	16.997	SF
File 3M-32H-K268 - Hz - Plan #1	200.0	200.0	8.4	7.7	12.858	CC, ES
File 3M-32H-K268 - Hz - Plan #1	400.0	399.8	11.1	9.7	8.153	SF
File 3N-32H-K268 - Hz - Plan #1	200.0	200.0	6.7	6.0	10.229	CC
File 3N-32H-K268 - Hz - Plan #1	300.0	300.0	6.9	5.9	6.872	ES
File 3N-32H-K268 - Hz - Plan #1	11,079.7	10,832.5	417.4	319.3	4.251	SF
File 3P-32H-K268 - Hz - Plan #1	200.0	200.0	6.7	6.0	10.229	CC
File 3P-32H-K268 - Hz - Plan #1	300.0	300.0	7.0	6.0	6.951	ES

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 3O-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 3O-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 Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S32-T2N-R68W (File)						
File 3P-32H-K268 - Hz - Plan #1	11,079.7	10,880.7	414.7	315.8	4.190	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
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	854.0	851.9	336.7	333.6	109.010	CC
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	1,000.0	997.0	337.1	333.4	91.181	ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	4,100.0	4,076.9	499.0	483.3	31.814	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						Out of range
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						Out of range
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO						Out of range
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	8,134.2	7,509.0	64.5	36.9	2.336	CC, ES, SF
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
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	8,815.7	7,659.4	398.2	359.2	10.224	CC, ES
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	8,900.0	7,660.2	407.0	366.9	10.151	SF
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	7,300.0	7,304.2	441.6	408.0	13.152	SF
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	7,500.0	7,473.2	422.8	391.6	13.551	ES
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	7,517.3	7,486.7	422.6	391.6	13.633	CC
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	8,528.6	7,695.8	197.5	163.8	5.858	CC, ES, SF
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 3O-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 3O-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 21-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8115-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		
10,600.0	7,606.0	7,572.0	7,572.0	50.4	13.2	-90.00	3,052.7	296.5	464.0	401.1	62.89	7.378		
10,700.0	7,606.0	7,572.0	7,572.0	52.1	13.2	-90.00	3,052.7	296.5	373.2	308.6	64.57	5.779		
10,800.0	7,606.0	7,572.0	7,572.0	53.8	13.2	-90.00	3,052.7	296.5	288.5	222.2	66.26	4.353		
10,900.0	7,606.0	7,572.0	7,572.0	55.4	13.2	-90.00	3,052.7	296.5	217.2	149.2	67.96	3.196		
11,000.0	7,606.0	7,572.0	7,572.0	57.1	13.2	-90.00	3,052.7	296.5	176.5	106.8	69.66	2.533		
11,030.2	7,606.0	7,572.0	7,572.0	57.6	13.2	-90.00	3,052.7	296.5	173.9	103.7	70.17	2.478	CC, ES, SF	
11,079.7	7,606.0	7,572.0	7,572.0	58.5	13.2	-90.00	3,052.7	296.5	180.8	109.8	71.02	2.546		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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 22-32 ENC (EXISTING) - ENCANA WELL - NO SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:												8344-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor					
10,600.0	7,606.0	7,572.0	7,572.0	50.4	13.2	-90.00	3,052.7	304.9	460.8	397.9	62.89	7.328					
10,700.0	7,606.0	7,572.0	7,572.0	52.1	13.2	-90.00	3,052.7	304.9	369.3	304.7	64.57	5.718					
10,800.0	7,606.0	7,572.0	7,572.0	53.8	13.2	-90.00	3,052.7	304.9	283.4	217.2	66.26	4.277					
10,900.0	7,606.0	7,572.0	7,572.0	55.4	13.2	-90.00	3,052.7	304.9	210.5	142.5	67.96	3.097					
11,000.0	7,606.0	7,572.0	7,572.0	57.1	13.2	-90.00	3,052.7	304.9	168.2	98.5	69.66	2.415					
11,030.1	7,606.0	7,572.0	7,572.0	57.6	13.2	-90.00	3,052.7	304.9	165.5	95.3	70.17	2.358	CC, ES, SF				
11,079.7	7,606.0	7,572.0	7,572.0	58.5	13.2	-90.00	3,052.7	304.9	172.7	101.7	71.02	2.433					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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						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	-100.7	100.7					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-100.7	100.7	100.4	0.30	333.319		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-100.7	100.7	100.1	0.65	154.712	CC, ES	
300.0	300.0	297.3	297.3	0.5	0.5	128.75	-0.1	-101.5	101.7	100.7	1.00	101.981		
400.0	400.0	395.5	395.4	0.7	0.7	129.27	-0.4	-104.0	105.3	104.0	1.34	78.351		
500.0	499.9	493.4	493.3	0.9	0.9	130.29	-1.0	-108.2	111.8	110.1	1.69	65.978		
600.0	599.8	591.0	590.7	1.1	1.1	131.64	-1.7	-113.9	121.1	119.0	2.05	59.113		
700.0	699.5	688.0	687.5	1.3	1.3	133.16	-2.7	-121.3	133.3	130.9	2.41	55.350		
800.0	799.2	784.5	783.5	1.5	1.5	134.71	-3.8	-130.3	148.4	145.7	2.77	53.493		
900.0	898.6	880.2	878.6	1.7	1.7	136.20	-5.2	-140.7	166.5	163.4	3.15	52.872	SF	
1,000.0	998.0	975.2	972.8	2.0	2.0	137.55	-6.7	-152.6	186.9	183.4	3.53	52.976		
1,100.0	1,097.3	1,069.6	1,066.2	2.2	2.3	138.49	-8.5	-166.0	209.0	205.1	3.91	53.427		
1,200.0	1,196.7	1,163.3	1,158.7	2.5	2.5	139.13	-10.4	-180.8	232.6	228.3	4.30	54.120		
1,300.0	1,296.0	1,256.3	1,250.3	2.7	2.9	139.54	-12.5	-197.0	257.7	253.0	4.69	54.985		
1,400.0	1,395.4	1,348.6	1,340.9	3.0	3.2	139.78	-14.7	-214.5	284.3	279.2	5.08	55.976		
1,500.0	1,494.7	1,440.0	1,430.4	3.2	3.6	139.88	-17.2	-233.3	312.3	306.9	5.47	57.063		
1,600.0	1,594.1	1,530.7	1,518.8	3.5	3.9	139.88	-19.8	-253.3	341.8	336.0	5.87	58.224		
1,700.0	1,693.4	1,620.5	1,606.0	3.8	4.3	139.81	-22.5	-274.5	372.8	366.5	6.27	59.447		
1,800.0	1,792.8	1,713.1	1,695.6	4.0	4.8	139.69	-25.5	-297.4	404.8	398.1	6.68	60.622		
1,900.0	1,892.1	1,807.7	1,787.3	4.3	5.2	139.57	-28.6	-321.0	437.0	429.9	7.09	61.629		
2,000.0	1,991.5	1,902.4	1,878.9	4.5	5.7	139.48	-31.6	-344.6	469.1	461.6	7.50	62.517		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-87.81	3.6	-95.1	95.2					
100.0	100.0	99.0	99.0	0.2	0.2	-87.81	3.6	-95.1	95.2	94.9	0.30	315.032		
200.0	200.0	199.0	199.0	0.3	0.3	-87.81	3.6	-95.1	95.2	94.5	0.65	146.224	CC	
227.8	227.8	226.8	226.8	0.4	0.4	130.93	3.6	-95.1	95.2	94.5	0.75	127.254		
300.0	300.0	299.0	299.0	0.5	0.5	131.01	3.6	-95.1	95.3	94.3	1.00	95.327	ES	
400.0	400.0	397.3	397.3	0.7	0.7	131.79	3.7	-95.9	97.3	96.0	1.35	72.242		
500.0	499.9	495.5	495.4	0.9	0.8	133.24	4.0	-98.4	102.2	100.5	1.70	60.257		
600.0	599.8	593.3	593.1	1.1	1.0	135.16	4.3	-102.6	110.2	108.1	2.05	53.749		
700.0	699.5	690.6	690.3	1.3	1.2	137.31	4.9	-108.4	121.2	118.7	2.41	50.365		
800.0	799.2	787.3	786.7	1.5	1.4	139.47	5.6	-115.7	135.3	132.5	2.76	48.932		
900.0	898.6	883.3	882.3	1.7	1.6	141.51	6.4	-124.7	152.6	149.5	3.13	48.790	SF	
1,000.0	998.0	978.5	976.9	2.0	1.9	143.31	7.4	-135.1	172.4	168.9	3.49	49.379		
1,100.0	1,097.3	1,073.1	1,070.7	2.2	2.1	144.65	8.5	-147.0	193.9	190.1	3.86	50.299		
1,200.0	1,196.7	1,167.0	1,163.7	2.5	2.4	145.63	9.7	-160.3	217.1	212.9	4.22	51.442		
1,300.0	1,296.0	1,260.2	1,255.7	2.7	2.7	146.34	11.1	-175.0	241.9	237.3	4.59	52.739		
1,400.0	1,395.4	1,352.6	1,346.7	3.0	3.0	146.84	12.6	-191.1	268.2	263.3	4.95	54.144		
1,500.0	1,494.7	1,446.1	1,438.5	3.2	3.3	147.19	14.2	-208.7	295.9	290.6	5.33	55.576		
1,600.0	1,594.1	1,542.1	1,532.7	3.5	3.7	147.48	16.0	-227.1	324.0	318.2	5.70	56.811		
1,700.0	1,693.4	1,638.1	1,626.9	3.8	4.0	147.72	17.7	-245.5	352.0	345.9	6.08	57.883		
1,800.0	1,792.8	1,734.1	1,721.1	4.0	4.4	147.92	19.4	-263.8	380.0	373.5	6.46	58.820		
1,900.0	1,892.1	1,830.1	1,815.3	4.3	4.7	148.10	21.1	-282.2	408.0	401.1	6.84	59.647		
2,000.0	1,991.5	1,926.1	1,909.5	4.5	5.1	148.26	22.8	-300.5	436.0	428.8	7.22	60.380		
2,100.0	2,090.8	2,022.0	2,003.7	4.8	5.4	148.39	24.5	-318.9	464.0	456.4	7.60	61.035		
2,200.0	2,190.2	2,118.0	2,097.9	5.1	5.8	148.51	26.2	-337.2	492.1	484.1	7.98	61.624		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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						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	-89.5	89.5					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-89.5	89.5	89.2	0.30	296.283		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-89.5	89.5	88.9	0.65	137.522 CC		
227.9	227.9	226.9	226.9	0.4	0.4	128.74	0.0	-89.5	89.5	88.8	0.75	119.674		
300.0	300.0	299.0	299.0	0.5	0.5	128.83	0.0	-89.5	89.7	88.7	1.00	89.655 ES		
400.0	400.0	399.0	399.0	0.7	0.7	129.68	0.0	-89.5	90.8	89.4	1.35	67.224		
500.0	499.9	497.4	497.4	0.9	0.8	131.13	-0.2	-90.3	93.8	92.1	1.70	55.178		
600.0	599.8	595.6	595.6	1.1	1.0	132.89	-0.8	-92.8	99.8	97.7	2.06	48.547		
700.0	699.5	693.5	693.3	1.3	1.2	134.76	-1.9	-96.8	108.6	106.2	2.42	44.976		
800.0	799.2	790.9	790.6	1.5	1.4	136.58	-3.4	-102.4	120.4	117.6	2.78	43.289		
900.0	898.6	887.8	887.2	1.7	1.6	138.24	-5.3	-109.6	135.1	132.0	3.15	42.824 SF		
1,000.0	998.0	984.1	983.0	2.0	1.8	139.60	-7.5	-118.3	152.1	148.6	3.53	43.042		
1,100.0	1,097.3	1,079.9	1,078.3	2.2	2.0	140.44	-10.2	-128.5	170.6	166.7	3.92	43.556		
1,200.0	1,196.7	1,175.2	1,172.8	2.5	2.3	140.88	-13.2	-140.2	190.6	186.3	4.31	44.266		
1,300.0	1,296.0	1,269.9	1,266.6	2.7	2.5	141.04	-16.7	-153.3	212.1	207.4	4.70	45.112		
1,400.0	1,395.4	1,364.0	1,359.4	3.0	2.8	141.00	-20.5	-167.8	235.0	229.9	5.10	46.055		
1,500.0	1,494.7	1,459.0	1,453.0	3.2	3.1	140.81	-24.6	-183.8	259.2	253.6	5.51	47.040		
1,600.0	1,594.1	1,556.0	1,548.4	3.5	3.5	140.62	-29.0	-200.4	283.6	277.6	5.92	47.875		
1,700.0	1,693.4	1,652.9	1,643.9	3.8	3.8	140.46	-33.3	-217.0	308.0	301.6	6.34	48.588		
1,800.0	1,792.8	1,749.9	1,739.3	4.0	4.1	140.33	-37.7	-233.5	332.4	325.6	6.76	49.203		
1,900.0	1,892.1	1,846.9	1,834.8	4.3	4.4	140.22	-42.0	-250.1	356.8	349.6	7.17	49.738		
2,000.0	1,991.5	1,943.8	1,930.2	4.5	4.8	140.12	-46.3	-266.7	381.2	373.6	7.59	50.208		
2,100.0	2,090.8	2,040.8	2,025.7	4.8	5.1	140.03	-50.7	-283.3	405.7	397.6	8.01	50.624		
2,200.0	2,190.2	2,137.8	2,121.1	5.1	5.4	139.95	-55.0	-299.9	430.1	421.6	8.43	50.995		
2,300.0	2,289.6	2,234.7	2,216.5	5.3	5.8	139.88	-59.3	-316.5	454.5	445.6	8.85	51.327		
2,400.0	2,388.9	2,331.7	2,312.0	5.6	6.1	139.82	-63.7	-333.0	478.9	469.6	9.28	51.626		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-87.52	3.6	-83.9	84.0					
100.0	100.0	99.0	99.0	0.2	0.2	-87.52	3.6	-83.9	84.0	83.7	0.30	278.026		
200.0	200.0	199.0	199.0	0.3	0.3	-87.52	3.6	-83.9	84.0	83.4	0.65	129.048 CC		
227.9	227.9	226.9	226.9	0.4	0.4	131.22	3.6	-83.9	84.0	83.3	0.75	112.305		
300.0	300.0	299.0	299.0	0.5	0.5	131.31	3.6	-83.9	84.2	83.2	1.00	84.147 ES		
400.0	400.0	399.0	399.0	0.7	0.7	132.19	3.6	-83.9	85.3	84.0	1.35	63.191		
500.0	499.9	498.9	498.9	0.9	0.8	133.86	3.6	-83.9	87.7	86.0	1.70	51.504		
600.0	599.8	597.2	597.2	1.1	1.0	136.17	3.8	-84.7	92.2	90.2	2.06	44.863		
700.0	699.5	695.2	695.1	1.3	1.2	138.89	4.2	-87.2	99.9	97.5	2.41	41.431		
800.0	799.2	792.6	792.5	1.5	1.4	141.69	4.9	-91.3	110.9	108.1	2.77	40.032		
900.0	898.6	889.5	889.2	1.7	1.6	144.34	5.8	-97.0	125.2	122.0	3.13	39.994 SF		
1,000.0	998.0	985.7	985.1	2.0	1.8	146.60	7.0	-104.2	142.1	138.6	3.49	40.723		
1,100.0	1,097.3	1,081.3	1,080.3	2.2	2.0	148.27	8.4	-113.0	160.8	156.9	3.85	41.790		
1,200.0	1,196.7	1,177.6	1,176.1	2.5	2.2	149.52	10.1	-123.3	181.0	176.8	4.21	43.028		
1,300.0	1,296.0	1,275.5	1,273.3	2.7	2.4	150.51	11.9	-133.9	201.6	197.0	4.57	44.109		
1,400.0	1,395.4	1,373.3	1,370.5	3.0	2.6	151.32	13.6	-144.6	222.2	217.2	4.93	45.036		
1,500.0	1,494.7	1,471.1	1,467.7	3.2	2.9	151.99	15.4	-155.3	242.8	237.5	5.30	45.837		
1,600.0	1,594.1	1,568.9	1,564.9	3.5	3.1	152.56	17.1	-166.0	263.5	257.8	5.66	46.535		
1,700.0	1,693.4	1,666.7	1,662.1	3.8	3.4	153.05	18.9	-176.6	284.2	278.1	6.03	47.149		
1,800.0	1,792.8	1,764.5	1,759.3	4.0	3.6	153.47	20.6	-187.3	304.9	298.5	6.39	47.692		
1,900.0	1,892.1	1,862.3	1,856.5	4.3	3.9	153.83	22.4	-198.0	325.6	318.8	6.76	48.176		
2,000.0	1,991.5	1,960.1	1,953.8	4.5	4.1	154.15	24.1	-208.7	346.3	339.2	7.12	48.609		
2,100.0	2,090.8	2,057.9	2,051.0	4.8	4.4	154.44	25.9	-219.3	367.1	359.6	7.49	48.998		
2,200.0	2,190.2	2,155.7	2,148.2	5.1	4.6	154.69	27.6	-230.0	387.8	380.0	7.86	49.351		
2,300.0	2,289.6	2,253.5	2,245.4	5.3	4.9	154.92	29.4	-240.7	408.6	400.3	8.23	49.672		
2,400.0	2,388.9	2,351.4	2,342.6	5.6	5.1	155.13	31.2	-251.4	429.3	420.7	8.59	49.965		
2,500.0	2,488.3	2,449.2	2,439.8	5.8	5.4	155.32	32.9	-262.0	450.1	441.1	8.96	50.233		
2,600.0	2,587.6	2,547.0	2,537.0	6.1	5.6	155.49	34.7	-272.7	470.9	461.5	9.33	50.479		
2,700.0	2,687.0	2,644.8	2,634.2	6.4	5.9	155.65	36.4	-283.4	491.6	482.0	9.70	50.707		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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		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	-69.9	69.9					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-69.9	69.9	69.6	0.30	230.314		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-69.9	69.9	69.3	0.65	107.151 CC		
227.9	227.9	227.9	227.9	0.4	0.4	128.74	0.0	-69.9	70.0	69.2	0.75	93.274		
300.0	300.0	300.0	300.0	0.5	0.5	128.85	0.0	-69.9	70.1	69.1	1.00	69.951 ES		
400.0	400.0	400.0	400.0	0.7	0.7	129.94	0.0	-69.9	71.2	69.8	1.35	52.654		
500.0	499.9	499.9	499.9	0.9	0.8	132.01	0.0	-69.9	73.5	71.8	1.70	43.099		
600.0	599.8	599.8	599.8	1.1	1.0	134.87	0.0	-69.9	77.1	75.0	2.06	37.395		
700.0	699.5	698.2	698.2	1.3	1.2	138.37	0.3	-70.7	83.0	80.6	2.42	34.316		
800.0	799.2	796.1	796.0	1.5	1.4	142.21	1.3	-73.0	92.2	89.4	2.78	33.222 SF		
900.0	898.6	893.8	893.6	1.7	1.5	145.96	2.9	-76.8	104.9	101.8	3.13	33.480		
1,000.0	998.0	992.5	992.3	2.0	1.7	149.23	4.7	-81.2	119.2	115.7	3.49	34.163		
1,100.0	1,097.3	1,091.3	1,090.9	2.2	1.9	151.79	6.6	-85.5	133.8	130.0	3.84	34.816		
1,200.0	1,196.7	1,190.1	1,189.6	2.5	2.1	153.85	8.4	-89.8	148.7	144.5	4.20	35.423		
1,300.0	1,296.0	1,288.8	1,288.3	2.7	2.3	155.53	10.2	-94.1	163.7	159.1	4.55	35.977		
1,400.0	1,395.4	1,387.6	1,386.9	3.0	2.5	156.93	12.1	-98.5	178.8	173.9	4.90	36.480		
1,500.0	1,494.7	1,486.4	1,485.6	3.2	2.7	158.11	13.9	-102.8	194.0	188.7	5.25	36.937		
1,600.0	1,594.1	1,585.1	1,584.2	3.5	2.8	159.12	15.7	-107.1	209.2	203.6	5.60	37.351		
1,700.0	1,693.4	1,683.9	1,682.9	3.8	3.0	159.99	17.6	-111.4	224.6	218.6	5.95	37.727		
1,800.0	1,792.8	1,782.7	1,781.5	4.0	3.2	160.75	19.4	-115.7	239.9	233.6	6.30	38.069		
1,900.0	1,892.1	1,881.4	1,880.2	4.3	3.4	161.42	21.2	-120.1	255.3	248.7	6.65	38.381		
2,000.0	1,991.5	1,980.2	1,978.8	4.5	3.6	162.01	23.1	-124.4	270.8	263.8	7.00	38.667		
2,100.0	2,090.8	2,079.0	2,077.5	4.8	3.8	162.54	24.9	-128.7	286.2	278.9	7.35	38.929		
2,200.0	2,190.2	2,177.7	2,176.1	5.1	4.0	163.02	26.7	-133.0	301.7	294.0	7.70	39.170		
2,300.0	2,289.6	2,276.5	2,274.8	5.3	4.2	163.44	28.6	-137.4	317.2	309.1	8.05	39.393		
2,400.0	2,388.9	2,375.3	2,373.5	5.6	4.4	163.83	30.4	-141.7	332.7	324.3	8.40	39.599		
2,500.0	2,488.3	2,474.0	2,472.1	5.8	4.5	164.19	32.2	-146.0	348.2	339.5	8.75	39.790		
2,600.0	2,587.6	2,572.8	2,570.8	6.1	4.7	164.51	34.1	-150.3	363.8	354.7	9.10	39.968		
2,700.0	2,687.0	2,671.6	2,669.4	6.4	4.9	164.81	35.9	-154.7	379.3	369.9	9.45	40.133		
2,800.0	2,786.3	2,770.3	2,768.1	6.6	5.1	165.08	37.7	-159.0	394.9	385.1	9.80	40.288		
2,900.0	2,885.7	2,869.1	2,866.7	6.9	5.3	165.33	39.6	-163.3	410.4	400.3	10.15	40.433		
3,000.0	2,985.0	2,967.8	2,965.4	7.2	5.5	165.57	41.4	-167.6	426.0	415.5	10.50	40.569		
3,100.0	3,084.4	3,066.6	3,064.0	7.4	5.7	165.79	43.2	-171.9	441.6	430.7	10.85	40.696		
3,200.0	3,183.7	3,165.4	3,162.7	7.7	5.9	165.99	45.1	-176.3	457.2	446.0	11.20	40.816		
3,300.0	3,283.1	3,264.1	3,261.3	8.0	6.1	166.18	46.9	-180.6	472.8	461.2	11.55	40.929		
3,400.0	3,382.4	3,362.9	3,360.0	8.2	6.3	166.36	48.7	-184.9	488.4	476.5	11.90	41.036		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-86.77	3.6	-64.3	64.5					
100.0	100.0	100.0	100.0	0.2	0.2	-86.77	3.6	-64.3	64.5	64.1	0.30	212.226		
200.0	200.0	200.0	200.0	0.3	0.3	-86.77	3.6	-64.3	64.5	63.8	0.65	98.736 CC		
227.9	227.9	227.9	227.9	0.4	0.4	131.98	3.6	-64.3	64.5	63.7	0.75	85.957		
300.0	300.0	300.0	300.0	0.5	0.5	132.10	3.6	-64.3	64.6	63.6	1.00	64.478 ES		
400.0	400.0	400.0	400.0	0.7	0.7	133.22	3.6	-64.3	65.8	64.4	1.35	48.659		
500.0	499.9	499.9	499.9	0.9	0.8	135.34	3.6	-64.3	68.2	66.5	1.70	40.028		
600.0	599.8	599.8	599.8	1.1	1.0	138.24	3.6	-64.3	72.0	70.0	2.06	34.976		
700.0	699.5	699.5	699.5	1.3	1.2	141.64	3.6	-64.3	77.4	75.0	2.42	32.012		
800.0	799.2	799.2	799.2	1.5	1.4	145.27	3.6	-64.3	84.4	81.6	2.78	30.404		
900.0	898.6	898.6	898.6	1.7	1.5	148.88	3.6	-64.3	93.2	90.1	3.13	29.738		
1,000.0	998.0	998.0	998.0	2.0	1.7	152.14	3.6	-64.3	103.1	99.6	3.49	29.545		
1,100.0	1,097.3	1,097.3	1,097.3	2.2	1.9	154.82	3.6	-64.3	113.3	109.4	3.84	29.478 SF		
1,200.0	1,196.7	1,196.7	1,196.7	2.5	2.1	157.06	3.6	-64.3	123.6	119.5	4.19	29.486		
1,300.0	1,296.0	1,296.0	1,296.0	2.7	2.2	158.95	3.6	-64.3	134.2	129.6	4.54	29.536		
1,400.0	1,395.4	1,395.4	1,395.4	3.0	2.4	160.56	3.6	-64.3	144.8	140.0	4.89	29.611		
1,500.0	1,494.7	1,494.7	1,494.7	3.2	2.6	161.95	3.6	-64.3	155.6	150.4	5.24	29.699		
1,600.0	1,594.1	1,594.1	1,594.1	3.5	2.8	163.16	3.6	-64.3	166.4	160.9	5.59	29.794		
1,700.0	1,693.4	1,693.4	1,693.4	3.8	2.9	164.22	3.6	-64.3	177.3	171.4	5.93	29.889		
1,800.0	1,792.8	1,792.8	1,792.8	4.0	3.1	165.16	3.6	-64.3	188.3	182.0	6.28	29.984		
1,900.0	1,892.1	1,892.1	1,892.1	4.3	3.3	166.00	3.6	-64.3	199.3	192.7	6.63	30.077		
2,000.0	1,991.5	1,991.5	1,991.5	4.5	3.5	166.75	3.6	-64.3	210.3	203.4	6.97	30.166		
2,100.0	2,090.8	2,090.8	2,090.8	4.8	3.6	167.42	3.6	-64.3	221.4	214.1	7.32	30.252		
2,200.0	2,190.2	2,190.2	2,190.2	5.1	3.8	168.03	3.6	-64.3	232.5	224.8	7.67	30.334		
2,300.0	2,289.6	2,289.6	2,289.6	5.3	4.0	168.58	3.6	-64.3	243.6	235.6	8.01	30.411		
2,400.0	2,388.9	2,388.9	2,388.9	5.6	4.1	169.09	3.6	-64.3	254.8	246.4	8.36	30.485		
2,500.0	2,488.3	2,488.3	2,488.3	5.8	4.3	169.55	3.6	-64.3	265.9	257.2	8.70	30.554		
2,600.0	2,587.6	2,587.6	2,587.6	6.1	4.5	169.98	3.6	-64.3	277.1	268.1	9.05	30.620		
2,700.0	2,687.0	2,687.0	2,687.0	6.4	4.7	170.37	3.6	-64.3	288.3	278.9	9.40	30.683		
2,800.0	2,786.3	2,786.3	2,786.3	6.6	4.8	170.73	3.6	-64.3	299.5	289.8	9.74	30.742		
2,900.0	2,885.7	2,885.7	2,885.7	6.9	5.0	171.07	3.6	-64.3	310.7	300.6	10.09	30.799		
3,000.0	2,985.0	2,985.0	2,985.0	7.2	5.2	171.38	3.6	-64.3	321.9	311.5	10.43	30.852		
3,100.0	3,084.4	3,084.4	3,084.4	7.4	5.4	171.68	3.6	-64.3	333.2	322.4	10.78	30.903		
3,200.0	3,183.7	3,183.7	3,183.7	7.7	5.5	171.95	3.6	-64.3	344.4	333.3	11.13	30.951		
3,300.0	3,283.1	3,283.1	3,283.1	8.0	5.7	172.21	3.6	-64.3	355.7	344.2	11.47	30.996		
3,400.0	3,382.4	3,382.4	3,382.4	8.2	5.9	172.45	3.6	-64.3	366.9	355.1	11.82	31.040		
3,500.0	3,481.8	3,481.8	3,481.8	8.5	6.1	172.67	3.6	-64.3	378.2	366.0	12.17	31.081		
3,600.0	3,581.1	3,581.1	3,581.1	8.7	6.2	172.88	3.6	-64.3	389.4	376.9	12.51	31.121		
3,700.0	3,680.5	3,680.5	3,680.5	9.0	6.4	173.09	3.6	-64.3	400.7	387.8	12.86	31.159		
3,800.0	3,779.9	3,779.9	3,779.9	9.3	6.6	173.28	3.6	-64.3	412.0	398.8	13.21	31.195		
3,900.0	3,879.2	3,879.2	3,879.2	9.5	6.7	173.46	3.6	-64.3	423.3	409.7	13.55	31.229		
4,000.0	3,978.6	3,978.6	3,978.6	9.8	6.9	173.63	3.6	-64.3	434.5	420.6	13.90	31.262		
4,100.0	4,077.9	4,075.3	4,075.3	10.1	7.1	173.84	4.1	-64.2	446.1	431.8	14.24	31.321		
4,200.0	4,177.3	4,171.1	4,171.1	10.3	7.3	174.22	6.1	-63.5	458.3	443.7	14.58	31.435		
4,300.0	4,276.6	4,269.1	4,269.0	10.6	7.4	174.73	9.2	-62.4	471.1	456.2	14.92	31.579		
4,400.0	4,376.0	4,368.2	4,368.0	10.9	7.6	175.22	12.6	-61.3	484.1	468.8	15.26	31.717		
4,500.0	4,475.3	4,467.2	4,467.0	11.1	7.8	175.69	15.9	-60.2	497.0	481.4	15.61	31.849		

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 3O-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 3O-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: 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	100.0	100.0	0.2	0.2	-90.00	0.0	-58.8	58.8	58.4	0.30	193.464		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-58.8	58.8	58.1	0.65	90.007 CC		
227.9	227.9	227.9	227.9	0.4	0.4	128.74	0.0	-58.8	58.8	58.0	0.75	78.348		
300.0	300.0	300.0	300.0	0.5	0.5	128.88	0.0	-58.8	58.9	57.9	1.00	58.781 ES		
400.0	400.0	400.0	400.0	0.7	0.7	130.17	0.0	-58.8	60.0	58.6	1.35	44.380		
500.0	499.9	499.9	499.9	0.9	0.8	132.61	0.0	-58.8	62.3	60.6	1.70	36.550		
600.0	599.8	600.9	600.9	1.1	1.0	136.10	0.0	-57.9	65.1	63.0	2.06	31.562		
700.0	699.5	701.9	701.8	1.3	1.2	140.62	0.2	-55.2	67.7	65.3	2.42	27.959		
800.0	799.2	802.5	802.4	1.5	1.4	146.03	0.4	-50.8	70.6	67.8	2.78	25.372		
900.0	898.6	902.1	901.9	1.7	1.6	151.73	0.6	-46.0	75.1	72.0	3.14	23.936		
1,000.0	998.0	1,001.7	1,001.3	2.0	1.8	157.01	0.8	-41.2	81.1	77.6	3.49	23.239		
1,100.0	1,097.3	1,101.3	1,100.8	2.2	1.9	161.54	1.1	-36.4	87.7	83.8	3.84	22.836		
1,200.0	1,196.7	1,200.8	1,200.2	2.5	2.1	165.42	1.3	-31.5	94.8	90.6	4.19	22.612		
1,300.0	1,296.0	1,300.4	1,299.7	2.7	2.3	168.75	1.5	-26.7	102.2	97.6	4.54	22.498		
1,400.0	1,395.4	1,399.9	1,399.1	3.0	2.5	171.61	1.8	-21.9	109.9	105.0	4.90	22.453		
1,500.0	1,494.7	1,499.5	1,498.5	3.2	2.7	174.10	2.0	-17.1	117.9	112.6	5.25	22.449		
1,600.0	1,594.1	1,599.1	1,598.0	3.5	2.9	176.27	2.2	-12.3	126.1	120.4	5.61	22.471		
1,700.0	1,693.4	1,698.6	1,697.4	3.8	3.1	178.18	2.5	-7.4	134.4	128.4	5.97	22.508		
1,800.0	1,792.8	1,798.2	1,796.9	4.0	3.3	179.86	2.7	-2.6	142.8	136.5	6.33	22.554		
1,900.0	1,892.1	1,897.7	1,896.3	4.3	3.5	-178.65	2.9	2.2	151.4	144.7	6.70	22.604		
2,000.0	1,991.5	1,997.3	1,995.8	4.5	3.7	-177.32	3.2	7.0	160.0	153.0	7.06	22.656		
2,100.0	2,090.8	2,096.9	2,095.2	4.8	3.9	-176.12	3.4	11.8	168.8	161.3	7.43	22.708		
2,200.0	2,190.2	2,196.4	2,194.6	5.1	4.0	-175.05	3.6	16.7	177.6	169.8	7.80	22.759		
2,300.0	2,289.6	2,296.0	2,294.1	5.3	4.2	-174.07	3.9	21.5	186.4	178.2	8.17	22.809		
2,400.0	2,388.9	2,395.5	2,393.5	5.6	4.4	-173.18	4.1	26.3	195.3	186.8	8.55	22.857		
2,500.0	2,488.3	2,495.1	2,493.0	5.8	4.6	-172.38	4.3	31.1	204.3	195.3	8.92	22.903		
2,600.0	2,587.6	2,594.7	2,592.4	6.1	4.8	-171.63	4.6	35.9	213.2	203.9	9.29	22.947		
2,700.0	2,687.0	2,694.2	2,691.9	6.4	5.0	-170.95	4.8	40.8	222.2	212.6	9.67	22.989		
2,800.0	2,786.3	2,793.8	2,791.3	6.6	5.2	-170.32	5.0	45.6	231.3	221.2	10.04	23.029		
2,900.0	2,885.7	2,893.3	2,890.7	6.9	5.4	-169.74	5.3	50.4	240.4	229.9	10.42	23.067		
3,000.0	2,985.0	2,992.9	2,990.2	7.2	5.6	-169.21	5.5	55.2	249.4	238.6	10.80	23.103		
3,100.0	3,084.4	3,092.5	3,089.6	7.4	5.8	-168.70	5.7	60.0	258.6	247.4	11.17	23.137		
3,200.0	3,183.7	3,192.0	3,189.1	7.7	6.0	-168.24	6.0	64.9	267.7	256.1	11.55	23.170		
3,300.0	3,283.1	3,291.6	3,288.5	8.0	6.2	-167.80	6.2	69.7	276.8	264.9	11.93	23.201		
3,400.0	3,382.4	3,391.1	3,388.0	8.2	6.4	-167.39	6.4	74.5	286.0	273.7	12.31	23.230		
3,500.0	3,481.8	3,490.7	3,487.4	8.5	6.5	-167.01	6.7	79.3	295.2	282.5	12.69	23.258		
3,600.0	3,581.1	3,590.3	3,586.8	8.7	6.7	-166.65	6.9	84.1	304.3	291.3	13.07	23.285		
3,700.0	3,680.5	3,689.8	3,686.3	9.0	6.9	-166.31	7.1	89.0	313.5	300.1	13.45	23.311		
3,800.0	3,779.9	3,789.4	3,785.7	9.3	7.1	-165.99	7.4	93.8	322.7	308.9	13.83	23.335		
3,900.0	3,879.2	3,888.9	3,885.2	9.5	7.3	-165.69	7.6	98.6	332.0	317.7	14.21	23.358		
4,000.0	3,978.6	3,988.5	3,984.6	9.8	7.5	-165.41	7.8	103.4	341.2	326.6	14.59	23.381		
4,100.0	4,077.9	4,088.1	4,084.1	10.1	7.7	-165.14	8.1	108.2	350.4	335.4	14.97	23.402		
4,200.0	4,177.3	4,187.6	4,183.5	10.3	7.9	-164.88	8.3	113.1	359.7	344.3	15.36	23.422		
4,300.0	4,276.6	4,287.2	4,282.9	10.6	8.1	-164.64	8.5	117.9	368.9	353.2	15.74	23.442		
4,400.0	4,376.0	4,386.7	4,382.4	10.9	8.3	-164.41	8.8	122.7	378.2	362.0	16.12	23.461		
4,500.0	4,475.3	4,486.3	4,481.8	11.1	8.5	-164.19	9.0	127.5	387.4	370.9	16.50	23.478		
4,600.0	4,574.7	4,585.8	4,581.3	11.4	8.7	-163.98	9.2	132.3	396.7	379.8	16.88	23.496		
4,700.0	4,674.0	4,685.4	4,680.7	11.6	8.9	-163.78	9.5	137.2	405.9	388.7	17.27	23.512		
4,800.0	4,773.4	4,785.0	4,780.1	11.9	9.1	-163.58	9.7	142.0	415.2	397.6	17.65	23.528		
4,900.0	4,872.7	4,884.5	4,879.6	12.2	9.2	-163.40	9.9	146.8	424.5	406.5	18.03	23.544		
5,000.0	4,972.1	4,984.1	4,979.0	12.4	9.4	-163.23	10.2	151.6	433.8	415.4	18.41	23.558		

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 3O-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 3O-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			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	5,071.4	5,083.6	5,078.5	12.7	9.6	-163.06	10.4	156.4	443.1	424.3	18.80	23.573		
5,200.0	5,170.8	5,183.2	5,177.9	13.0	9.8	-162.90	10.6	161.3	452.3	433.2	19.18	23.586		
5,300.0	5,270.2	5,282.8	5,277.4	13.2	10.0	-162.74	10.9	166.1	461.6	442.1	19.56	23.600		
5,400.0	5,369.5	5,382.3	5,376.8	13.5	10.2	-162.59	11.1	170.9	470.9	451.0	19.94	23.612		
5,500.0	5,468.9	5,481.9	5,476.2	13.8	10.4	-162.45	11.3	175.7	480.2	459.9	20.33	23.625		
5,600.0	5,568.2	5,581.4	5,575.7	14.0	10.6	-162.31	11.6	180.5	489.5	468.8	20.71	23.637		
5,700.0	5,667.6	5,681.0	5,675.1	14.3	10.8	-162.18	11.8	185.4	498.8	477.7	21.09	23.648		
7,000.0	6,959.2	7,723.5	7,378.0	17.7	17.9	138.24	-569.1	267.9	459.2	428.0	31.25	14.697		
7,100.0	7,058.7	7,727.4	7,378.0	17.9	18.0	-151.97	-573.0	267.9	374.3	340.9	33.44	11.193		
7,200.0	7,157.5	7,714.4	7,378.0	17.9	17.8	-119.26	-560.0	267.9	299.2	265.1	34.14	8.764		
7,300.0	7,252.6	7,677.3	7,376.9	17.8	17.4	-109.26	-522.9	267.9	243.1	210.0	33.12	7.342		
7,400.0	7,341.0	7,635.2	7,372.7	17.5	17.0	-98.79	-481.0	267.7	217.2	185.8	31.47	6.904 SF		
7,420.2	7,357.8	7,626.4	7,371.5	17.4	16.9	-96.36	-472.3	267.6	216.5	185.4	31.08	6.965		
7,500.0	7,420.1	7,590.9	7,365.1	17.2	16.5	-85.88	-437.4	267.3	227.5	198.1	29.43	7.732		
7,600.0	7,487.5	7,550.0	7,355.0	16.9	16.1	-72.62	-397.8	266.8	265.4	238.1	27.31	9.721		
7,700.0	7,541.1	7,500.0	7,338.9	16.6	15.7	-58.78	-350.5	266.0	316.9	292.1	24.83	12.762		
7,800.0	7,579.3	7,450.0	7,318.8	16.4	15.3	-47.87	-304.7	265.0	372.6	350.0	22.59	16.495		
7,900.0	7,601.0	7,400.0	7,294.8	16.3	14.9	-39.88	-260.9	263.9	427.4	406.5	20.87	20.475		
8,000.0	7,606.0	7,350.0	7,267.0	16.5	14.6	-34.89	-219.4	262.5	478.7	458.7	20.00	23.931		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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: 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	-86.08	3.6	-53.2	53.3						
100.0	100.0	100.0	100.0	0.2	0.2	-86.08	3.6	-53.2	53.3	53.0	0.30	175.448			
200.0	200.0	200.0	200.0	0.3	0.3	-86.08	3.6	-53.2	53.3	52.6	0.65	81.626 CC			
227.9	227.9	227.9	227.9	0.4	0.4	132.66	3.6	-53.2	53.3	52.6	0.75	71.061			
300.0	300.0	300.0	300.0	0.5	0.5	132.81	3.6	-53.2	53.4	52.4	1.00	53.331 ES			
400.0	400.0	400.5	400.5	0.7	0.7	134.19	3.7	-52.9	54.4	53.1	1.35	40.228			
500.0	499.9	501.4	501.3	0.9	0.9	137.13	3.8	-51.2	55.2	53.5	1.71	32.336			
600.0	599.8	602.2	602.1	1.1	1.0	141.63	4.1	-47.6	55.8	53.7	2.06	27.026			
700.0	699.5	703.0	702.7	1.3	1.2	147.67	4.5	-42.3	56.5	54.1	2.42	23.331			
800.0	799.2	803.6	803.1	1.5	1.4	155.10	5.0	-35.3	57.9	55.1	2.78	20.808			
900.0	898.6	904.0	903.1	1.7	1.6	163.59	5.7	-26.5	60.5	57.3	3.15	19.207			
1,000.0	998.0	1,004.0	1,002.6	2.0	1.9	172.36	6.5	-16.1	64.1	60.6	3.53	18.135			
1,100.0	1,097.3	1,103.4	1,101.4	2.2	2.1	-179.78	7.3	-5.5	68.9	64.9	3.94	17.474			
1,200.0	1,196.7	1,202.9	1,200.3	2.5	2.4	-173.03	8.2	5.1	74.7	70.4	4.37	17.109			
1,300.0	1,296.0	1,302.4	1,299.2	2.7	2.6	-167.33	9.0	15.6	81.5	76.7	4.81	16.929			
1,400.0	1,395.4	1,401.8	1,398.1	3.0	2.8	-162.54	9.8	26.2	89.0	83.7	5.27	16.864			
1,500.0	1,494.7	1,501.3	1,497.0	3.2	3.1	-158.51	10.6	36.8	96.9	91.2	5.74	16.872			
1,600.0	1,594.1	1,600.8	1,595.9	3.5	3.3	-155.10	11.5	47.4	105.3	99.1	6.22	16.926			
1,700.0	1,693.4	1,700.2	1,694.8	3.8	3.6	-152.20	12.3	58.0	114.0	107.3	6.70	17.008			
1,800.0	1,792.8	1,799.7	1,793.7	4.0	3.8	-149.72	13.1	68.6	122.9	115.7	7.19	17.107			
1,900.0	1,892.1	1,899.2	1,892.6	4.3	4.1	-147.58	13.9	79.2	132.1	124.4	7.67	17.216			
2,000.0	1,991.5	1,998.6	1,991.5	4.5	4.3	-145.71	14.7	89.8	141.4	133.2	8.16	17.328			
2,100.0	2,090.8	2,098.1	2,090.4	4.8	4.6	-144.08	15.6	100.4	150.8	142.2	8.65	17.441			
2,200.0	2,190.2	2,197.6	2,189.3	5.1	4.8	-142.64	16.4	111.0	160.3	151.2	9.13	17.554			
2,300.0	2,289.6	2,297.0	2,288.2	5.3	5.1	-141.36	17.2	121.6	170.0	160.3	9.62	17.663			
2,400.0	2,388.9	2,396.5	2,387.1	5.6	5.3	-140.22	18.0	132.2	179.7	169.6	10.11	17.770			
2,500.0	2,488.3	2,496.0	2,486.0	5.8	5.6	-139.20	18.9	142.8	189.4	178.8	10.60	17.872			
2,600.0	2,587.6	2,595.4	2,584.9	6.1	5.8	-138.27	19.7	153.4	199.3	188.2	11.09	17.971			
2,700.0	2,687.0	2,694.9	2,683.8	6.4	6.1	-137.44	20.5	164.0	209.1	197.5	11.58	18.065			
2,800.0	2,786.3	2,794.4	2,782.7	6.6	6.3	-136.68	21.3	174.6	219.0	207.0	12.06	18.155			
2,900.0	2,885.7	2,893.8	2,881.6	6.9	6.6	-135.98	22.1	185.2	229.0	216.4	12.55	18.241			
3,000.0	2,985.0	2,993.3	2,980.5	7.2	6.9	-135.34	23.0	195.8	238.9	225.9	13.04	18.323			
3,100.0	3,084.4	3,092.8	3,079.4	7.4	7.1	-134.76	23.8	206.3	248.9	235.4	13.53	18.401			
3,200.0	3,183.7	3,192.2	3,178.3	7.7	7.4	-134.22	24.6	216.9	259.0	244.9	14.02	18.476			
3,300.0	3,283.1	3,291.7	3,277.2	8.0	7.6	-133.72	25.4	227.5	269.0	254.5	14.50	18.547			
3,400.0	3,382.4	3,391.2	3,376.1	8.2	7.9	-133.25	26.3	238.1	279.1	264.1	14.99	18.615			
3,500.0	3,481.8	3,490.7	3,475.0	8.5	8.1	-132.82	27.1	248.7	289.1	273.7	15.48	18.680			
3,600.0	3,581.1	3,590.1	3,573.9	8.7	8.4	-132.42	27.9	259.3	299.2	283.3	15.97	18.742			
3,700.0	3,680.5	3,689.6	3,672.8	9.0	8.6	-132.04	28.7	269.9	309.3	292.9	16.45	18.801			
3,800.0	3,779.9	3,789.1	3,771.7	9.3	8.9	-131.69	29.6	280.5	319.5	302.5	16.94	18.858			
3,900.0	3,879.2	3,888.5	3,870.6	9.5	9.1	-131.36	30.4	291.1	329.6	312.2	17.43	18.912			
4,000.0	3,978.6	3,988.0	3,969.5	9.8	9.4	-131.05	31.2	301.7	339.7	321.8	17.91	18.964			
4,100.0	4,077.9	4,087.5	4,068.4	10.1	9.6	-130.75	32.0	312.3	349.9	331.5	18.40	19.014			
4,200.0	4,177.3	4,186.9	4,167.3	10.3	9.9	-130.48	32.8	322.9	360.0	341.2	18.89	19.061			
4,300.0	4,276.6	4,286.4	4,266.2	10.6	10.2	-130.21	33.7	333.5	370.2	350.8	19.38	19.107			
4,400.0	4,376.0	4,385.9	4,365.1	10.9	10.4	-129.97	34.5	344.1	380.4	360.5	19.86	19.151			
4,500.0	4,475.3	4,485.3	4,464.0	11.1	10.7	-129.73	35.3	354.7	390.6	370.2	20.35	19.193			
4,600.0	4,574.7	4,584.8	4,562.9	11.4	10.9	-129.51	36.1	365.3	400.7	379.9	20.84	19.234			
4,700.0	4,674.0	4,684.3	4,661.8	11.6	11.2	-129.30	37.0	375.9	410.9	389.6	21.32	19.273			
4,800.0	4,773.4	4,783.7	4,760.7	11.9	11.4	-129.10	37.8	386.4	421.1	399.3	21.81	19.310			
4,900.0	4,872.7	4,883.2	4,859.6	12.2	11.7	-128.90	38.6	397.0	431.3	409.0	22.30	19.346			
5,000.0	4,972.1	4,982.7	4,958.5	12.4	11.9	-128.72	39.4	407.6	441.6	418.8	22.78	19.381			

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 3O-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 3O-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			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	5,071.4	5,082.1	5,057.4	12.7	12.2	-128.55	40.2	418.2	451.8	428.5	23.27	19.415		
5,200.0	5,170.8	5,181.6	5,156.3	13.0	12.4	-128.38	41.1	428.8	462.0	438.2	23.76	19.447		
5,300.0	5,270.2	5,281.1	5,255.2	13.2	12.7	-128.22	41.9	439.4	472.2	448.0	24.24	19.479		
5,400.0	5,369.5	5,380.5	5,354.1	13.5	13.0	-128.07	42.7	450.0	482.4	457.7	24.73	19.509		
5,500.0	5,468.9	5,480.0	5,453.0	13.8	13.2	-127.92	43.5	460.6	492.6	467.4	25.21	19.538		
7,200.0	7,157.5	8,016.2	7,606.0	17.9	21.7	100.09	-560.0	691.2	500.0	472.3	27.66	18.075		
7,300.0	7,252.6	7,986.2	7,606.0	17.8	21.4	116.42	-530.0	691.2	413.5	387.1	26.36	15.687		
7,400.0	7,341.0	7,908.2	7,602.4	17.5	20.8	115.35	-452.2	690.9	335.8	309.5	26.25	12.790		
7,500.0	7,420.1	7,829.9	7,588.5	17.2	20.2	109.10	-375.2	689.4	267.1	240.4	26.74	9.990		
7,600.0	7,487.5	7,762.3	7,568.1	16.9	19.7	100.26	-310.8	687.2	215.0	187.4	27.58	7.795		
7,700.0	7,541.1	7,700.1	7,542.9	16.6	19.3	88.15	-254.1	684.5	190.0	161.8	28.27	6.722		
7,723.7	7,551.6	7,685.9	7,536.2	16.5	19.2	84.85	-241.5	683.8	189.1	160.8	28.32	6.675 SF		
7,800.0	7,579.3	7,641.1	7,513.4	16.4	19.0	73.55	-203.1	681.3	198.4	170.5	27.81	7.132		
7,900.0	7,601.0	7,584.1	7,480.1	16.3	18.7	58.81	-157.0	677.8	231.9	206.1	25.83	8.979		
8,000.0	7,606.0	7,528.7	7,443.5	16.5	18.5	47.24	-115.5	673.8	277.9	254.2	23.75	11.704		
8,100.0	7,606.0	7,480.1	7,408.3	16.8	18.3	41.07	-82.3	670.1	334.7	311.9	22.82	14.664		
8,200.0	7,606.0	7,439.5	7,376.8	17.3	18.2	36.43	-56.9	666.7	401.2	378.9	22.25	18.030		
8,300.0	7,606.0	7,400.0	7,344.6	17.9	18.1	32.39	-34.4	663.2	474.8	453.0	21.82	21.757		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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	-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 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	128.50	-0.3	-40.0	40.1	39.1	1.00	40.078		
400.0	400.0	398.6	398.6	0.7	0.7	129.02	-1.3	-42.4	43.6	42.3	1.35	32.302		
500.0	499.9	497.7	497.5	0.9	0.9	130.23	-2.8	-46.4	49.8	48.1	1.70	29.254		
600.0	599.8	596.4	596.1	1.1	1.1	131.73	-5.0	-51.9	58.8	56.8	2.06	28.496 SF		
700.0	699.5	694.7	694.1	1.3	1.3	133.23	-7.8	-59.0	70.5	68.1	2.43	28.997		
800.0	799.2	792.4	791.4	1.5	1.5	134.57	-11.2	-67.6	85.0	82.2	2.81	30.234		
900.0	898.6	889.5	887.9	1.7	1.7	135.71	-15.2	-77.7	102.2	99.0	3.20	31.910		
1,000.0	998.0	986.0	983.5	2.0	2.0	136.50	-19.7	-89.2	121.6	118.0	3.61	33.720		
1,100.0	1,097.3	1,081.9	1,078.4	2.2	2.3	136.75	-24.8	-102.2	142.4	138.3	4.01	35.456		
1,200.0	1,196.7	1,177.2	1,172.5	2.5	2.6	136.64	-30.5	-116.5	164.5	160.1	4.43	37.131		
1,300.0	1,296.0	1,271.8	1,265.6	2.7	2.9	136.32	-36.7	-132.2	188.1	183.3	4.85	38.755		
1,400.0	1,395.4	1,365.8	1,357.8	3.0	3.3	135.85	-43.3	-149.1	213.1	207.8	5.28	40.340		
1,500.0	1,494.7	1,459.0	1,448.9	3.2	3.6	135.31	-50.5	-167.3	239.5	233.8	5.72	41.897		
1,600.0	1,594.1	1,551.4	1,538.9	3.5	4.0	134.71	-58.2	-186.8	267.3	261.1	6.15	43.431		
1,700.0	1,693.4	1,643.4	1,628.2	3.8	4.4	134.09	-66.3	-207.4	296.5	289.9	6.59	44.959		
1,800.0	1,792.8	1,738.8	1,720.6	4.0	4.9	133.50	-75.0	-229.4	326.2	319.2	7.04	46.318		
1,900.0	1,892.1	1,834.2	1,813.0	4.3	5.3	133.01	-83.7	-251.4	356.0	348.5	7.49	47.515		
2,000.0	1,991.5	1,929.6	1,905.5	4.5	5.8	132.60	-92.3	-273.4	385.8	377.9	7.94	48.576		
2,100.0	2,090.8	2,025.0	1,997.9	4.8	6.2	132.24	-101.0	-295.5	415.7	407.3	8.39	49.523		
2,200.0	2,190.2	2,120.5	2,090.3	5.1	6.6	131.94	-109.7	-317.5	445.5	436.7	8.84	50.373		
2,300.0	2,289.6	2,215.9	2,182.8	5.3	7.1	131.67	-118.4	-339.5	475.4	466.1	9.30	51.140		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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			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	-83.81	3.6	-33.6	33.8					
100.0	100.0	100.0	100.0	0.2	0.2	-83.81	3.6	-33.6	33.8	33.5	0.30	111.199		
200.0	200.0	200.0	200.0	0.3	0.3	-83.81	3.6	-33.6	33.8	33.1	0.65	51.735 CC		
227.8	227.8	227.8	227.8	0.4	0.4	134.95	3.6	-33.6	33.8	33.0	0.75	45.073 ES		
300.0	300.0	299.8	299.8	0.5	0.5	134.97	3.5	-33.8	34.1	33.1	1.00	34.058		
400.0	400.0	399.2	399.2	0.7	0.7	135.40	2.8	-35.3	36.8	35.4	1.35	27.235		
500.0	499.9	498.5	498.4	0.9	0.9	136.08	1.2	-38.4	42.2	40.5	1.70	24.742		
600.0	599.8	597.5	597.3	1.1	1.0	136.83	-1.1	-43.0	50.2	48.2	2.06	24.335 SF		
700.0	699.5	696.1	695.7	1.3	1.2	137.50	-4.2	-49.1	61.0	58.6	2.43	25.061		
800.0	799.2	794.3	793.5	1.5	1.5	138.05	-8.0	-56.6	74.4	71.6	2.81	26.439		
900.0	898.6	891.9	890.5	1.7	1.7	138.48	-12.6	-65.6	90.5	87.3	3.21	28.197		
1,000.0	998.0	988.9	986.8	2.0	1.9	138.63	-17.8	-76.0	108.6	104.9	3.62	30.029		
1,100.0	1,097.3	1,085.4	1,082.4	2.2	2.2	138.29	-23.8	-87.8	128.0	123.9	4.03	31.742		
1,200.0	1,196.7	1,181.3	1,177.2	2.5	2.5	137.66	-30.5	-101.0	148.7	144.2	4.46	33.363		
1,300.0	1,296.0	1,276.7	1,271.2	2.7	2.8	136.87	-37.8	-115.4	170.8	165.9	4.89	34.918		
1,400.0	1,395.4	1,371.4	1,364.3	3.0	3.2	135.98	-45.7	-131.2	194.2	188.9	5.33	36.425		
1,500.0	1,494.7	1,465.7	1,456.6	3.2	3.5	135.05	-54.4	-148.2	219.0	213.2	5.78	37.909		
1,600.0	1,594.1	1,562.3	1,551.1	3.5	3.9	134.20	-63.5	-166.3	244.4	238.1	6.23	39.226		
1,700.0	1,693.4	1,659.0	1,645.6	3.8	4.3	133.51	-72.6	-184.3	269.8	263.1	6.68	40.367		
1,800.0	1,792.8	1,755.7	1,740.1	4.0	4.6	132.94	-81.8	-202.3	295.3	288.1	7.14	41.362		
1,900.0	1,892.1	1,852.3	1,834.7	4.3	5.0	132.46	-90.9	-220.4	320.7	313.1	7.59	42.237		
2,000.0	1,991.5	1,949.0	1,929.2	4.5	5.4	132.06	-100.0	-238.4	346.2	338.2	8.05	43.013		
2,100.0	2,090.8	2,045.7	2,023.7	4.8	5.8	131.70	-109.1	-256.5	371.8	363.2	8.51	43.705		
2,200.0	2,190.2	2,142.3	2,118.3	5.1	6.2	131.40	-118.3	-274.5	397.3	388.3	8.96	44.326		
2,300.0	2,289.6	2,239.0	2,212.8	5.3	6.6	131.12	-127.4	-292.5	422.8	413.4	9.42	44.887		
2,400.0	2,388.9	2,335.7	2,307.3	5.6	7.0	130.88	-136.5	-310.6	448.4	438.5	9.88	45.395		
2,500.0	2,488.3	2,432.3	2,401.8	5.8	7.4	130.67	-145.7	-328.6	473.9	463.6	10.33	45.858		
2,600.0	2,587.6	2,529.0	2,496.4	6.1	7.7	130.48	-154.8	-346.7	499.5	488.7	10.79	46.281		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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		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	-28.0	28.0					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-28.0	28.0	27.7	0.30	92.126		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-28.0	28.0	27.3	0.65	42.861 CC		
228.0	228.0	228.0	228.0	0.4	0.4	128.78	0.0	-28.0	28.0	27.2	0.75	37.301		
300.0	300.0	300.0	300.0	0.5	0.5	129.07	0.0	-28.0	28.1	27.1	1.00	28.063 ES		
400.0	400.0	399.8	399.8	0.7	0.7	131.45	-0.1	-28.2	29.4	28.1	1.35	21.765		
500.0	499.9	499.3	499.3	0.9	0.9	134.10	-1.1	-29.6	33.1	31.4	1.70	19.448		
600.0	599.8	598.6	598.5	1.1	1.0	136.25	-3.1	-32.4	39.5	37.4	2.06	19.136 SF		
700.0	699.5	697.6	697.4	1.3	1.2	137.74	-6.0	-36.6	48.3	45.9	2.43	19.909		
800.0	799.2	796.3	795.9	1.5	1.4	138.66	-9.9	-42.2	59.8	57.0	2.81	21.301		
900.0	898.6	894.5	893.7	1.7	1.6	139.19	-14.8	-49.2	73.7	70.5	3.20	23.047		
1,000.0	998.0	992.3	991.0	2.0	1.9	139.20	-20.6	-57.5	89.5	85.9	3.61	24.835		
1,100.0	1,097.3	1,089.7	1,087.6	2.2	2.1	138.56	-27.3	-67.1	106.5	102.5	4.02	26.470		
1,200.0	1,196.7	1,186.6	1,183.6	2.5	2.4	137.56	-34.9	-78.0	124.7	120.3	4.46	27.988		
1,300.0	1,296.0	1,283.3	1,279.2	2.7	2.7	136.36	-43.4	-90.2	144.1	139.2	4.90	29.431		
1,400.0	1,395.4	1,381.2	1,375.9	3.0	3.0	135.30	-52.3	-103.0	164.0	158.7	5.35	30.684		
1,500.0	1,494.7	1,479.2	1,472.6	3.2	3.3	134.47	-61.2	-115.8	184.0	178.2	5.80	31.738		
1,600.0	1,594.1	1,577.2	1,569.3	3.5	3.6	133.79	-70.2	-128.6	203.9	197.7	6.25	32.636		
1,700.0	1,693.4	1,675.1	1,666.0	3.8	3.9	133.24	-79.1	-141.5	223.9	217.2	6.70	33.409		
1,800.0	1,792.8	1,773.1	1,762.7	4.0	4.2	132.78	-88.0	-154.3	244.0	236.8	7.16	34.081		
1,900.0	1,892.1	1,871.1	1,859.4	4.3	4.5	132.39	-97.0	-167.1	264.0	256.4	7.61	34.670		
2,000.0	1,991.5	1,969.0	1,956.1	4.5	4.8	132.05	-105.9	-179.9	284.0	275.9	8.07	35.191		
2,100.0	2,090.8	2,067.0	2,052.8	4.8	5.1	131.76	-114.8	-192.7	304.1	295.5	8.53	35.654		
2,200.0	2,190.2	2,164.9	2,149.5	5.1	5.4	131.51	-123.8	-205.5	324.1	315.1	8.99	36.069		
2,300.0	2,289.6	2,262.9	2,246.2	5.3	5.8	131.28	-132.7	-218.4	344.2	334.7	9.44	36.442		
2,400.0	2,388.9	2,360.9	2,342.9	5.6	6.1	131.08	-141.6	-231.2	364.2	354.3	9.90	36.780		
2,500.0	2,488.3	2,458.8	2,439.6	5.8	6.4	130.90	-150.6	-244.0	384.3	373.9	10.36	37.088		
2,600.0	2,587.6	2,556.8	2,536.4	6.1	6.7	130.74	-159.5	-256.8	404.3	393.5	10.82	37.368		
2,700.0	2,687.0	2,654.7	2,633.1	6.4	7.0	130.59	-168.4	-269.6	424.4	413.1	11.28	37.625		
2,800.0	2,786.3	2,752.7	2,729.8	6.6	7.4	130.46	-177.4	-282.4	444.5	432.7	11.74	37.861		
2,900.0	2,885.7	2,850.7	2,826.5	6.9	7.7	130.34	-186.3	-295.3	464.5	452.3	12.20	38.080		
3,000.0	2,985.0	2,948.6	2,923.2	7.2	8.0	130.22	-195.2	-308.1	484.6	472.0	12.66	38.281		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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 3L-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			
0.0	0.0	0.0	0.0	0.0	0.0	-81.77	3.6	-25.2	25.4					
100.0	100.0	100.0	100.0	0.2	0.2	-81.77	3.6	-25.2	25.4	25.1	0.30	83.776		
200.0	200.0	200.0	200.0	0.3	0.3	-81.77	3.6	-25.2	25.4	24.8	0.65	38.976 CC		
228.0	228.0	228.0	228.0	0.4	0.4	137.01	3.6	-25.2	25.5	24.7	0.75	33.939		
300.0	300.0	300.0	300.0	0.5	0.5	137.29	3.6	-25.2	25.6	24.6	1.00	25.555 ES		
400.0	400.0	400.0	400.0	0.7	0.7	139.80	3.6	-25.2	26.9	25.6	1.35	19.910		
500.0	499.9	499.8	499.8	0.9	0.8	143.77	3.5	-25.3	29.8	28.1	1.70	17.489		
600.0	599.8	599.4	599.3	1.1	1.0	146.38	2.3	-26.6	34.9	32.9	2.06	16.997 SF		
700.0	699.5	698.8	698.7	1.3	1.2	147.45	-0.1	-29.1	42.4	40.0	2.42	17.572		
800.0	799.2	797.9	797.7	1.5	1.4	147.50	-3.6	-32.9	52.2	49.4	2.78	18.752		
900.0	898.6	896.7	896.2	1.7	1.6	146.98	-8.3	-37.8	64.3	61.1	3.17	20.281		
1,000.0	998.0	995.2	994.3	2.0	1.8	145.92	-14.1	-44.0	77.9	74.3	3.57	21.821		
1,100.0	1,097.3	1,093.4	1,092.0	2.2	2.0	144.27	-21.1	-51.4	92.4	88.4	3.99	23.166		
1,200.0	1,196.7	1,192.0	1,190.0	2.5	2.3	142.56	-28.9	-59.6	107.5	103.1	4.42	24.347		
1,300.0	1,296.0	1,290.8	1,288.2	2.7	2.5	141.27	-36.6	-67.9	122.7	117.9	4.85	25.309		
1,400.0	1,395.4	1,389.6	1,386.3	3.0	2.7	140.26	-44.4	-76.1	138.0	132.7	5.28	26.105		
1,500.0	1,494.7	1,488.4	1,484.5	3.2	3.0	139.45	-52.2	-84.4	153.3	147.5	5.72	26.774		
1,600.0	1,594.1	1,587.2	1,582.6	3.5	3.2	138.79	-60.0	-92.6	168.6	162.4	6.17	27.343		
1,700.0	1,693.4	1,686.0	1,680.8	3.8	3.5	138.24	-67.7	-100.8	183.9	177.3	6.61	27.832		
1,800.0	1,792.8	1,784.8	1,778.9	4.0	3.7	137.77	-75.5	-109.1	199.3	192.2	7.05	28.257		
1,900.0	1,892.1	1,883.7	1,877.1	4.3	4.0	137.37	-83.3	-117.3	214.6	207.1	7.50	28.629		
2,000.0	1,991.5	1,982.5	1,975.2	4.5	4.3	137.02	-91.1	-125.5	230.0	222.0	7.94	28.957		
2,100.0	2,090.8	2,081.3	2,073.4	4.8	4.5	136.72	-98.8	-133.8	245.4	237.0	8.39	29.249		
2,200.0	2,190.2	2,180.1	2,171.5	5.1	4.8	136.45	-106.6	-142.0	260.7	251.9	8.84	29.511		
2,300.0	2,289.6	2,278.9	2,269.7	5.3	5.0	136.22	-114.4	-150.3	276.1	266.9	9.28	29.746		
2,400.0	2,388.9	2,377.7	2,367.8	5.6	5.3	136.00	-122.2	-158.5	291.5	281.8	9.73	29.958		
2,500.0	2,488.3	2,476.5	2,466.0	5.8	5.5	135.81	-129.9	-166.7	306.9	296.7	10.18	30.151		
2,600.0	2,587.6	2,575.3	2,564.2	6.1	5.8	135.64	-137.7	-175.0	322.3	311.7	10.63	30.327		
2,700.0	2,687.0	2,674.1	2,662.3	6.4	6.1	135.48	-145.5	-183.2	337.7	326.6	11.08	30.489		
2,800.0	2,786.3	2,772.9	2,760.5	6.6	6.3	135.34	-153.3	-191.5	353.1	341.6	11.53	30.637		
2,900.0	2,885.7	2,871.7	2,858.6	6.9	6.6	135.21	-161.0	-199.7	368.5	356.6	11.98	30.774		
3,000.0	2,985.0	2,970.5	2,956.8	7.2	6.8	135.09	-168.8	-207.9	383.9	371.5	12.42	30.900		
3,100.0	3,084.4	3,069.3	3,054.9	7.4	7.1	134.98	-176.6	-216.2	399.3	386.5	12.87	31.018		
3,200.0	3,183.7	3,168.1	3,153.1	7.7	7.4	134.87	-184.4	-224.4	414.8	401.4	13.32	31.127		
3,300.0	3,283.1	3,266.9	3,251.2	8.0	7.6	134.78	-192.1	-232.7	430.2	416.4	13.77	31.229		
3,400.0	3,382.4	3,365.7	3,349.4	8.2	7.9	134.69	-199.9	-240.9	445.6	431.3	14.22	31.324		
3,500.0	3,481.8	3,464.5	3,447.5	8.5	8.1	134.60	-207.7	-249.1	461.0	446.3	14.67	31.413		
3,600.0	3,581.1	3,563.3	3,545.7	8.7	8.4	134.53	-215.5	-257.4	476.4	461.3	15.13	31.497		
3,700.0	3,680.5	3,662.1	3,643.8	9.0	8.7	134.45	-223.2	-265.6	491.8	476.2	15.58	31.576		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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 Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-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 CC, ES		
300.0	300.0	299.9	299.9	0.5	0.5	124.60	-0.8	-8.7	8.9	7.9	1.00	8.858		
400.0	400.0	399.8	399.8	0.7	0.7	119.86	-3.2	-9.7	11.1	9.7	1.36	8.153 SF		
500.0	499.9	499.6	499.5	0.9	0.9	117.11	-7.3	-11.3	15.1	13.3	1.72	8.749		
600.0	599.8	599.3	599.0	1.1	1.1	115.90	-12.9	-13.6	20.8	18.7	2.10	9.916		
700.0	699.5	698.8	698.1	1.3	1.3	115.52	-20.1	-16.5	28.3	25.8	2.50	11.343		
800.0	799.2	798.2	797.2	1.5	1.5	115.88	-28.6	-20.0	37.4	34.5	2.92	12.830		
900.0	898.6	897.7	896.2	1.7	1.7	117.82	-37.3	-23.5	47.4	44.0	3.35	14.122		
1,000.0	998.0	997.1	995.2	2.0	2.0	119.93	-46.0	-27.0	57.8	54.0	3.80	15.215		
1,100.0	1,097.3	1,096.6	1,094.2	2.2	2.2	121.40	-54.7	-30.5	68.3	64.1	4.25	16.077		
1,200.0	1,196.7	1,196.0	1,193.2	2.5	2.4	122.47	-63.3	-34.0	78.8	74.1	4.70	16.771		
1,300.0	1,296.0	1,295.4	1,292.2	2.7	2.7	123.29	-72.0	-37.5	89.4	84.2	5.15	17.342		
1,400.0	1,395.4	1,394.9	1,391.2	3.0	2.9	123.94	-80.7	-41.0	99.9	94.3	5.61	17.818		
1,500.0	1,494.7	1,494.3	1,490.2	3.2	3.1	124.46	-89.3	-44.5	110.5	104.4	6.07	18.220		
1,600.0	1,594.1	1,593.8	1,589.2	3.5	3.4	124.89	-98.0	-48.0	121.1	114.6	6.52	18.566		
1,700.0	1,693.4	1,693.2	1,688.2	3.8	3.6	125.26	-106.7	-51.5	131.7	124.7	6.98	18.864		
1,800.0	1,792.8	1,792.6	1,787.2	4.0	3.8	125.57	-115.3	-55.0	142.3	134.8	7.44	19.126		
1,900.0	1,892.1	1,892.1	1,886.2	4.3	4.1	125.83	-124.0	-58.5	152.9	145.0	7.90	19.356		
2,000.0	1,991.5	1,991.5	1,985.1	4.5	4.3	126.06	-132.7	-62.0	163.5	155.1	8.36	19.560		
2,100.0	2,090.8	2,090.9	2,084.1	4.8	4.5	126.27	-141.3	-65.5	174.1	165.2	8.82	19.743		
2,200.0	2,190.2	2,190.4	2,183.1	5.1	4.8	126.45	-150.0	-69.1	184.7	175.4	9.28	19.907		
2,300.0	2,289.6	2,289.8	2,282.1	5.3	5.0	126.61	-158.7	-72.6	195.3	185.5	9.74	20.055		
2,400.0	2,388.9	2,389.2	2,381.1	5.6	5.3	126.75	-167.3	-76.1	205.9	195.7	10.20	20.189		
2,500.0	2,488.3	2,488.7	2,480.1	5.8	5.5	126.88	-176.0	-79.6	216.5	205.8	10.66	20.312		
2,600.0	2,587.6	2,588.1	2,579.1	6.1	5.7	127.00	-184.7	-83.1	227.1	216.0	11.12	20.424		
2,700.0	2,687.0	2,687.5	2,678.1	6.4	6.0	127.11	-193.3	-86.6	237.7	226.1	11.58	20.528		
2,800.0	2,786.3	2,787.0	2,777.1	6.6	6.2	127.20	-202.0	-90.1	248.3	236.2	12.04	20.623		
2,900.0	2,885.7	2,886.4	2,876.1	6.9	6.4	127.29	-210.7	-93.6	258.9	246.4	12.50	20.711		
3,000.0	2,985.0	2,985.8	2,975.1	7.2	6.7	127.38	-219.3	-97.1	269.5	256.5	12.96	20.792		
3,100.0	3,084.4	3,085.3	3,074.1	7.4	6.9	127.45	-228.0	-100.6	280.1	266.7	13.42	20.868		
3,200.0	3,183.7	3,184.7	3,173.1	7.7	7.2	127.52	-236.7	-104.1	290.7	276.8	13.88	20.939		
3,300.0	3,283.1	3,284.1	3,272.1	8.0	7.4	127.59	-245.3	-107.6	301.3	287.0	14.35	21.005		
3,400.0	3,382.4	3,383.6	3,371.1	8.2	7.6	127.65	-254.0	-111.1	311.9	297.1	14.81	21.067		
3,500.0	3,481.8	3,483.0	3,470.1	8.5	7.9	127.71	-262.7	-114.6	322.5	307.3	15.27	21.125		
3,600.0	3,581.1	3,582.5	3,569.1	8.7	8.1	127.76	-271.3	-118.1	333.2	317.4	15.73	21.180		
3,700.0	3,680.5	3,681.9	3,668.1	9.0	8.3	127.81	-280.0	-121.6	343.8	327.6	16.19	21.231		
3,800.0	3,779.9	3,781.3	3,767.0	9.3	8.6	127.86	-288.7	-125.1	354.4	337.7	16.65	21.280		
3,900.0	3,879.2	3,880.8	3,866.0	9.5	8.8	127.91	-297.3	-128.6	365.0	347.9	17.11	21.326		
4,000.0	3,978.6	3,980.2	3,965.0	9.8	9.1	127.95	-306.0	-132.1	375.6	358.0	17.58	21.370		
4,100.0	4,077.9	4,079.6	4,064.0	10.1	9.3	127.99	-314.7	-135.6	386.2	368.2	18.04	21.411		
4,200.0	4,177.3	4,179.1	4,163.0	10.3	9.5	128.03	-323.3	-139.2	396.8	378.3	18.50	21.450		
4,300.0	4,276.6	4,278.5	4,262.0	10.6	9.8	128.06	-332.0	-142.7	407.4	388.5	18.96	21.487		
4,400.0	4,376.0	4,377.9	4,361.0	10.9	10.0	128.09	-340.7	-146.2	418.1	398.6	19.42	21.523		
4,500.0	4,475.3	4,477.4	4,460.0	11.1	10.2	128.13	-349.4	-149.7	428.7	408.8	19.89	21.556		
4,600.0	4,574.7	4,576.8	4,559.0	11.4	10.5	128.16	-358.0	-153.2	439.3	418.9	20.35	21.589		
4,700.0	4,674.0	4,676.2	4,658.0	11.6	10.7	128.19	-366.7	-156.7	449.9	429.1	20.81	21.619		
4,800.0	4,773.4	4,775.7	4,757.0	11.9	11.0	128.22	-375.4	-160.2	460.5	439.2	21.27	21.649		
4,900.0	4,872.7	4,875.1	4,856.0	12.2	11.2	128.24	-384.0	-163.7	471.1	449.4	21.73	21.677		
5,000.0	4,972.1	4,974.5	4,955.0	12.4	11.4	128.27	-392.7	-167.2	481.7	459.5	22.20	21.704		
5,100.0	5,071.4	5,074.0	5,054.0	12.7	11.7	128.29	-401.4	-170.7	492.3	469.7	22.66	21.730		

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 3O-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 3O-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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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		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	-56.93	3.6	-5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	-56.93	3.6	-5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	-56.93	3.6	-5.6	6.7	6.0	0.65	10.229 CC		
227.9	227.9	227.9	227.9	0.4	0.4	161.88	3.6	-5.6	6.7	6.0	0.75	8.944		
300.0	300.0	300.0	300.0	0.5	0.5	162.35	3.6	-5.6	6.9	5.9	1.00	6.872 ES		
400.0	400.0	400.1	400.1	0.7	0.7	161.71	2.8	-5.4	7.9	6.6	1.35	5.869		
500.0	499.9	500.2	500.1	0.9	0.9	156.97	0.2	-4.9	9.4	7.7	1.70	5.544		
600.0	599.8	600.2	600.1	1.1	1.0	150.41	-4.1	-4.1	11.6	9.5	2.07	5.594		
700.0	699.5	700.3	700.0	1.3	1.2	143.69	-10.1	-2.9	14.4	11.9	2.45	5.881		
800.0	799.2	800.3	799.7	1.5	1.4	137.69	-17.8	-1.3	18.0	15.2	2.86	6.312		
900.0	898.6	900.3	899.2	1.7	1.7	133.50	-26.8	0.5	22.6	19.3	3.29	6.867		
1,000.0	998.0	1,000.1	998.6	2.0	1.9	131.92	-36.0	2.3	27.8	24.1	3.74	7.451		
1,100.0	1,097.3	1,100.0	1,098.0	2.2	2.1	130.84	-45.2	4.2	33.1	28.9	4.19	7.901		
1,200.0	1,196.7	1,199.8	1,197.5	2.5	2.4	130.05	-54.4	6.0	38.3	33.7	4.64	8.256		
1,300.0	1,296.0	1,299.7	1,296.9	2.7	2.6	129.46	-63.5	7.9	43.6	38.5	5.10	8.543		
1,400.0	1,395.4	1,399.6	1,396.3	3.0	2.8	128.99	-72.7	9.7	48.9	43.3	5.57	8.779		
1,500.0	1,494.7	1,499.4	1,495.7	3.2	3.0	128.61	-81.9	11.5	54.1	48.1	6.03	8.975		
1,600.0	1,594.1	1,599.3	1,595.1	3.5	3.3	128.30	-91.1	13.4	59.4	52.9	6.50	9.142		
1,700.0	1,693.4	1,699.2	1,694.6	3.8	3.5	128.05	-100.3	15.2	64.7	57.7	6.96	9.284		
1,800.0	1,792.8	1,799.0	1,794.0	4.0	3.8	127.83	-109.4	17.0	69.9	62.5	7.43	9.408		
1,900.0	1,892.1	1,898.9	1,893.4	4.3	4.0	127.64	-118.6	18.9	75.2	67.3	7.90	9.515		
2,000.0	1,991.5	1,998.7	1,992.8	4.5	4.2	127.47	-127.8	20.7	80.5	72.1	8.37	9.610		
2,100.0	2,090.8	2,098.6	2,092.3	4.8	4.5	127.33	-137.0	22.6	85.7	76.9	8.84	9.695		
2,200.0	2,190.2	2,198.5	2,191.7	5.1	4.7	127.20	-146.2	24.4	91.0	81.7	9.32	9.770		
2,300.0	2,289.6	2,298.3	2,291.1	5.3	4.9	127.09	-155.3	26.2	96.3	86.5	9.79	9.837		
2,400.0	2,388.9	2,398.2	2,390.5	5.6	5.2	126.99	-164.5	28.1	101.5	91.3	10.26	9.898		
2,500.0	2,488.3	2,498.0	2,489.9	5.8	5.4	126.89	-173.7	29.9	106.8	96.1	10.73	9.954		
2,600.0	2,587.6	2,597.9	2,589.4	6.1	5.6	126.81	-182.9	31.8	112.1	100.9	11.20	10.004		
2,700.0	2,687.0	2,697.8	2,688.8	6.4	5.9	126.74	-192.1	33.6	117.4	105.7	11.68	10.050		
2,800.0	2,786.3	2,797.6	2,788.2	6.6	6.1	126.67	-201.2	35.4	122.6	110.5	12.15	10.093		
2,900.0	2,885.7	2,897.5	2,887.6	6.9	6.4	126.60	-210.4	37.3	127.9	115.3	12.62	10.132		
3,000.0	2,985.0	2,997.3	2,987.0	7.2	6.6	126.54	-219.6	39.1	133.2	120.1	13.10	10.168		
3,100.0	3,084.4	3,097.2	3,086.5	7.4	6.8	126.49	-228.8	40.9	138.5	124.9	13.57	10.201		
3,200.0	3,183.7	3,197.1	3,185.9	7.7	7.1	126.44	-237.9	42.8	143.7	129.7	14.05	10.232		
3,300.0	3,283.1	3,296.9	3,285.3	8.0	7.3	126.39	-247.1	44.6	149.0	134.5	14.52	10.261		
3,400.0	3,382.4	3,396.8	3,384.7	8.2	7.6	126.35	-256.3	46.5	154.3	139.3	15.00	10.288		
3,500.0	3,481.8	3,496.6	3,484.1	8.5	7.8	126.31	-265.5	48.3	159.5	144.1	15.47	10.314		
3,600.0	3,581.1	3,596.5	3,583.6	8.7	8.0	126.27	-274.7	50.1	164.8	148.9	15.94	10.337		
3,700.0	3,680.5	3,696.4	3,683.0	9.0	8.3	126.24	-283.8	52.0	170.1	153.7	16.42	10.360		
3,800.0	3,779.9	3,796.2	3,782.4	9.3	8.5	126.20	-293.0	53.8	175.4	158.5	16.89	10.381		
3,900.0	3,879.2	3,896.1	3,881.8	9.5	8.7	126.17	-302.2	55.6	180.6	163.3	17.37	10.401		
4,000.0	3,978.6	3,995.9	3,981.3	9.8	9.0	126.14	-311.4	57.5	185.9	168.1	17.84	10.419		
4,100.0	4,077.9	4,095.8	4,080.7	10.1	9.2	126.11	-320.6	59.3	191.2	172.9	18.32	10.437		
4,200.0	4,177.3	4,195.7	4,180.1	10.3	9.5	126.09	-329.7	61.2	196.5	177.7	18.79	10.454		
4,300.0	4,276.6	4,295.5	4,279.5	10.6	9.7	126.06	-338.9	63.0	201.7	182.5	19.27	10.470		
4,400.0	4,376.0	4,395.4	4,378.9	10.9	9.9	126.04	-348.1	64.8	207.0	187.3	19.74	10.485		
4,500.0	4,475.3	4,495.3	4,478.4	11.1	10.2	126.02	-357.3	66.7	212.3	192.1	20.22	10.499		
4,600.0	4,574.7	4,595.1	4,577.8	11.4	10.4	126.00	-366.5	68.5	217.6	196.9	20.69	10.513		
4,700.0	4,674.0	4,695.0	4,677.2	11.6	10.7	125.97	-375.6	70.4	222.8	201.7	21.17	10.526		
4,800.0	4,773.4	4,794.8	4,776.6	11.9	10.9	125.95	-384.8	72.2	228.1	206.5	21.64	10.539		
4,900.0	4,872.7	4,894.7	4,876.0	12.2	11.1	125.94	-394.0	74.0	233.4	211.3	22.12	10.551		
5,000.0	4,972.1	4,994.6	4,975.5	12.4	11.4	125.92	-403.2	75.9	238.7	216.1	22.59	10.562		

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 3O-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 3O-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				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	5,071.4	5,094.4	5,074.9	12.7	11.6	125.90	-412.3	77.7	243.9	220.9	23.07	10.573		
5,200.0	5,170.8	5,194.3	5,174.3	13.0	11.8	125.88	-421.5	79.5	249.2	225.7	23.55	10.584		
5,300.0	5,270.2	5,294.1	5,273.7	13.2	12.1	125.87	-430.7	81.4	254.5	230.5	24.02	10.594		
5,400.0	5,369.5	5,394.0	5,373.1	13.5	12.3	125.85	-439.9	83.2	259.7	235.3	24.50	10.603		
5,500.0	5,468.9	5,493.9	5,472.6	13.8	12.6	125.84	-449.1	85.1	265.0	240.0	24.97	10.613		
5,600.0	5,568.2	5,593.7	5,572.0	14.0	12.8	125.83	-458.2	86.9	270.3	244.8	25.45	10.622		
5,700.0	5,667.6	5,693.6	5,671.4	14.3	13.0	125.81	-467.4	88.7	275.6	249.6	25.92	10.630		
5,800.0	5,766.9	5,793.4	5,770.8	14.6	13.3	125.80	-476.6	90.6	280.8	254.4	26.40	10.639		
5,900.0	5,866.3	5,893.3	5,870.3	14.8	13.5	125.79	-485.8	92.4	286.1	259.2	26.87	10.646		
6,000.0	5,965.6	5,993.2	5,969.7	15.1	13.8	125.78	-495.0	94.2	291.4	264.0	27.35	10.654		
6,100.0	6,065.0	6,093.0	6,069.1	15.3	14.0	125.76	-504.1	96.1	296.7	268.8	27.83	10.662		
6,200.0	6,164.3	6,192.9	6,168.5	15.6	14.2	125.75	-513.3	97.9	301.9	273.6	28.30	10.669		
6,300.0	6,263.7	6,292.7	6,267.9	15.9	14.5	125.74	-522.5	99.8	307.2	278.4	28.78	10.676		
6,400.0	6,363.0	6,392.6	6,367.4	16.1	14.7	125.73	-531.7	101.6	312.5	283.2	29.25	10.682		
6,500.0	6,462.4	6,492.5	6,466.8	16.4	14.9	125.72	-540.9	103.4	317.8	288.0	29.73	10.689		
6,600.0	6,561.7	6,592.3	6,566.2	16.7	15.2	125.71	-550.0	105.3	323.0	292.8	30.20	10.695		
6,700.0	6,661.1	6,692.2	6,665.6	16.9	15.4	125.70	-559.2	107.1	328.3	297.6	30.68	10.701		
6,800.0	6,760.5	6,792.4	6,765.4	17.2	15.7	125.72	-568.3	109.0	333.6	302.4	31.15	10.709		
6,900.0	6,859.8	6,893.9	6,866.7	17.5	15.7	127.61	-566.3	110.8	338.5	307.2	31.25	10.829		
7,000.0	6,959.2	6,988.7	6,959.7	17.7	15.6	131.99	-548.4	112.6	344.3	313.5	30.88	11.153		
7,100.0	7,058.7	7,075.1	7,040.8	17.9	15.4	-139.38	-518.9	114.1	353.9	323.9	30.06	11.775		
7,200.0	7,157.5	7,157.3	7,113.0	17.9	15.1	-92.82	-479.9	115.4	366.5	337.4	29.06	12.609		
7,300.0	7,252.6	7,236.3	7,176.5	17.8	14.8	-80.10	-432.9	116.6	380.6	352.6	28.06	13.564		
7,400.0	7,341.0	7,313.0	7,231.4	17.5	14.4	-72.84	-379.5	117.6	395.1	368.0	27.12	14.569		
7,500.0	7,420.1	7,387.7	7,277.6	17.2	14.1	-67.80	-320.8	118.4	408.8	382.5	26.26	15.569		
7,600.0	7,487.5	7,461.1	7,315.1	16.9	13.8	-64.15	-257.8	119.1	420.7	395.2	25.50	16.497		
7,700.0	7,541.1	7,533.3	7,343.9	16.6	13.7	-61.56	-191.6	119.7	430.2	405.3	24.91	17.270		
7,800.0	7,579.3	7,600.0	7,362.8	16.4	13.6	-59.91	-127.7	120.0	436.8	412.3	24.55	17.794		
7,900.0	7,601.0	7,676.0	7,375.2	16.3	13.6	-58.98	-52.8	120.2	440.1	415.6	24.49	17.969		
8,000.0	7,606.0	7,753.0	7,378.0	16.5	13.7	-58.80	24.1	120.3	440.2	415.4	24.80	17.753		
8,100.0	7,606.0	7,853.0	7,378.0	16.8	14.1	-58.75	124.1	120.3	439.5	413.9	25.51	17.229		
8,200.0	7,606.0	7,953.0	7,378.0	17.3	14.7	-58.69	224.1	120.3	438.7	412.2	26.53	16.539		
8,300.0	7,606.0	8,053.0	7,378.0	17.9	15.4	-58.63	324.1	120.3	438.0	410.1	27.83	15.736		
8,400.0	7,606.0	8,153.0	7,378.0	18.7	16.3	-58.57	424.1	120.3	437.2	407.8	29.38	14.879		
8,500.0	7,606.0	8,253.0	7,378.0	19.6	17.4	-58.51	524.1	120.3	436.5	405.3	31.15	14.014		
8,600.0	7,606.0	8,353.0	7,378.0	20.6	18.5	-58.45	624.1	120.3	435.7	402.6	33.08	13.171		
8,700.0	7,606.0	8,453.0	7,378.0	21.8	19.8	-58.39	724.1	120.3	435.0	399.8	35.16	12.370		
8,800.0	7,606.0	8,553.0	7,378.0	23.0	21.1	-58.33	824.1	120.3	434.2	396.9	37.37	11.621		
8,900.0	7,606.0	8,653.0	7,378.0	24.2	22.4	-58.27	924.1	120.3	433.5	393.8	39.67	10.929		
9,000.0	7,606.0	8,753.0	7,378.0	25.5	23.9	-58.21	1,024.1	120.3	432.8	390.7	42.05	10.292		
9,100.0	7,606.0	8,853.0	7,378.0	26.9	25.3	-58.14	1,124.1	120.3	432.0	387.5	44.50	9.709		
9,200.0	7,606.0	8,952.9	7,378.0	28.3	26.8	-58.08	1,224.1	120.3	431.3	384.3	47.00	9.175		
9,300.0	7,606.0	9,052.9	7,378.0	29.8	28.3	-58.02	1,324.1	120.3	430.5	381.0	49.56	8.687		
9,400.0	7,606.0	9,152.9	7,378.0	31.3	29.9	-57.96	1,424.1	120.3	429.8	377.6	52.15	8.241		
9,500.0	7,606.0	9,252.9	7,378.0	32.8	31.5	-57.90	1,524.1	120.3	429.1	374.3	54.78	7.833		
9,600.0	7,606.0	9,352.9	7,378.0	34.3	33.1	-57.84	1,624.1	120.3	428.3	370.9	57.43	7.458		
9,700.0	7,606.0	9,452.9	7,378.0	35.9	34.7	-57.77	1,724.1	120.3	427.6	367.5	60.11	7.113		
9,800.0	7,606.0	9,552.9	7,378.0	37.4	36.3	-57.71	1,824.1	120.3	426.8	364.0	62.81	6.796		
9,900.0	7,606.0	9,652.9	7,378.0	39.0	37.9	-57.65	1,924.1	120.3	426.1	360.6	65.52	6.503		
10,000.0	7,606.0	9,752.9	7,378.0	40.6	39.6	-57.59	2,024.0	120.3	425.4	357.1	68.25	6.232		
10,100.0	7,606.0	9,852.9	7,378.0	42.2	41.2	-57.52	2,124.0	120.3	424.6	353.6	70.99	5.981		
10,200.0	7,606.0	9,952.9	7,378.0	43.9	42.9	-57.46	2,224.0	120.3	423.9	350.1	73.74	5.748		

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 3O-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 3O-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		
10,300.0	7,606.0	10,052.9	7,378.0	45.5	44.5	-57.40	2,324.0	120.3	423.2	346.7	76.50	5.531		
10,400.0	7,606.0	10,152.9	7,378.0	47.1	46.2	-57.33	2,424.0	120.3	422.4	343.1	79.27	5.329		
10,500.0	7,606.0	10,252.9	7,378.0	48.8	47.9	-57.27	2,524.0	120.3	421.7	339.6	82.04	5.140		
10,600.0	7,606.0	10,352.9	7,378.0	50.4	49.6	-57.20	2,624.0	120.3	421.0	336.1	84.82	4.963		
10,700.0	7,606.0	10,452.9	7,378.0	52.1	51.3	-57.14	2,724.0	120.3	420.2	332.6	87.60	4.797		
10,800.0	7,606.0	10,552.9	7,378.0	53.8	53.0	-57.08	2,824.0	120.3	419.5	329.1	90.39	4.641		
10,900.0	7,606.0	10,652.9	7,378.0	55.4	54.7	-57.01	2,924.0	120.3	418.8	325.6	93.18	4.494		
11,000.0	7,606.0	10,752.9	7,378.0	57.1	56.4	-56.95	3,024.0	120.3	418.0	322.1	95.97	4.356		
11,079.7	7,606.0	10,832.5	7,378.0	58.5	57.7	-56.89	3,103.7	120.3	417.4	319.3	98.19	4.251 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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			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	56.93	3.6	5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	56.93	3.6	5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	56.93	3.6	5.6	6.7	6.0	0.65	10.229 CC		
300.0	300.0	300.0	299.9	0.5	0.5	-79.35	3.1	6.3	7.0	6.0	1.00	6.951 ES		
400.0	400.0	399.9	399.9	0.7	0.7	-74.38	1.5	8.4	7.7	6.4	1.36	5.710		
500.0	499.9	499.8	499.7	0.9	0.9	-71.52	-1.2	11.8	8.9	7.2	1.72	5.195		
600.0	599.8	599.7	599.4	1.1	1.1	-70.38	-4.9	16.6	10.5	8.4	2.10	5.006		
700.0	699.5	699.6	698.9	1.3	1.3	-70.40	-9.7	22.8	12.5	10.0	2.51	4.979		
800.0	799.2	799.4	798.3	1.5	1.5	-71.12	-15.5	30.4	14.8	11.9	2.94	5.034		
900.0	898.6	899.2	897.5	1.7	1.8	-72.22	-22.4	39.3	17.5	14.1	3.41	5.131		
1,000.0	998.0	999.0	996.4	2.0	2.0	-71.30	-30.4	49.6	20.8	16.9	3.89	5.349		
1,100.0	1,097.3	1,098.8	1,095.1	2.2	2.3	-67.46	-39.3	61.2	25.1	20.7	4.36	5.755		
1,200.0	1,196.7	1,198.6	1,193.8	2.5	2.6	-64.15	-48.5	73.1	29.7	24.9	4.82	6.163		
1,300.0	1,296.0	1,298.5	1,292.6	2.7	2.9	-61.72	-57.7	85.0	34.3	29.1	5.27	6.517		
1,400.0	1,395.4	1,398.4	1,391.3	3.0	3.2	-59.88	-66.9	96.9	39.1	33.3	5.72	6.824		
1,500.0	1,494.7	1,498.3	1,490.1	3.2	3.5	-58.44	-76.1	108.8	43.8	37.6	6.18	7.091		
1,600.0	1,594.1	1,598.2	1,588.8	3.5	3.9	-57.28	-85.3	120.7	48.6	41.9	6.63	7.326		
1,700.0	1,693.4	1,698.0	1,687.5	3.8	4.2	-56.32	-94.5	132.7	53.4	46.3	7.08	7.532		
1,800.0	1,792.8	1,797.9	1,786.3	4.0	4.5	-55.53	-103.7	144.6	58.2	50.6	7.54	7.716		
1,900.0	1,892.1	1,897.8	1,885.0	4.3	4.8	-54.85	-112.9	156.5	63.0	55.0	7.99	7.880		
2,000.0	1,991.5	1,997.7	1,983.8	4.5	5.1	-54.27	-122.1	168.4	67.8	59.3	8.44	8.027		
2,100.0	2,090.8	2,097.6	2,082.5	4.8	5.4	-53.77	-131.4	180.3	72.6	63.7	8.90	8.160		
2,200.0	2,190.2	2,197.5	2,181.2	5.1	5.7	-53.33	-140.6	192.2	77.4	68.1	9.35	8.281		
2,300.0	2,289.6	2,297.3	2,280.0	5.3	6.0	-52.95	-149.8	204.1	82.3	72.5	9.80	8.391		
2,400.0	2,388.9	2,397.2	2,378.7	5.6	6.4	-52.60	-159.0	216.0	87.1	76.8	10.26	8.491		
2,500.0	2,488.3	2,497.1	2,477.5	5.8	6.7	-52.29	-168.2	227.9	91.9	81.2	10.71	8.583		
2,600.0	2,587.6	2,597.0	2,576.2	6.1	7.0	-52.01	-177.4	239.8	96.8	85.6	11.16	8.668		
2,700.0	2,687.0	2,696.9	2,675.0	6.4	7.3	-51.76	-186.6	251.8	101.6	90.0	11.62	8.747		
2,800.0	2,786.3	2,796.7	2,773.7	6.6	7.6	-51.53	-195.8	263.7	106.4	94.4	12.07	8.819		
2,900.0	2,885.7	2,896.6	2,872.4	6.9	7.9	-51.33	-205.0	275.6	111.3	98.8	12.52	8.887		
3,000.0	2,985.0	2,996.5	2,971.2	7.2	8.2	-51.14	-214.2	287.5	116.1	103.2	12.98	8.950		
3,100.0	3,084.4	3,096.4	3,069.9	7.4	8.6	-50.96	-223.4	299.4	121.0	107.5	13.43	9.008		
3,200.0	3,183.7	3,196.3	3,168.7	7.7	8.9	-50.80	-232.6	311.3	125.8	111.9	13.88	9.063		
3,300.0	3,283.1	3,296.2	3,267.4	8.0	9.2	-50.65	-241.8	323.2	130.7	116.3	14.34	9.115		
3,400.0	3,382.4	3,396.0	3,366.1	8.2	9.5	-50.51	-251.0	335.1	135.5	120.7	14.79	9.163		
3,500.0	3,481.8	3,495.9	3,464.9	8.5	9.8	-50.38	-260.2	347.0	140.4	125.1	15.24	9.209		
3,600.0	3,581.1	3,595.8	3,563.6	8.7	10.1	-50.26	-269.4	358.9	145.2	129.5	15.70	9.252		
3,700.0	3,680.5	3,695.7	3,662.4	9.0	10.4	-50.14	-278.6	370.9	150.1	133.9	16.15	9.292		
3,800.0	3,779.9	3,795.6	3,761.1	9.3	10.8	-50.04	-287.8	382.8	154.9	138.3	16.60	9.331		
3,900.0	3,879.2	3,895.5	3,859.8	9.5	11.1	-49.94	-297.0	394.7	159.8	142.7	17.06	9.367		
4,000.0	3,978.6	3,995.3	3,958.6	9.8	11.4	-49.84	-306.2	406.6	164.6	147.1	17.51	9.401		
4,100.0	4,077.9	4,095.2	4,057.3	10.1	11.7	-49.75	-315.4	418.5	169.5	151.5	17.96	9.434		
4,200.0	4,177.3	4,195.1	4,156.1	10.3	12.0	-49.67	-324.6	430.4	174.3	155.9	18.42	9.465		
4,300.0	4,276.6	4,295.0	4,254.8	10.6	12.3	-49.59	-333.8	442.3	179.2	160.3	18.87	9.495		
4,400.0	4,376.0	4,394.9	4,353.6	10.9	12.7	-49.52	-343.0	454.2	184.0	164.7	19.32	9.523		
4,500.0	4,475.3	4,494.7	4,452.3	11.1	13.0	-49.45	-352.2	466.1	188.9	169.1	19.78	9.550		
4,600.0	4,574.7	4,594.6	4,551.0	11.4	13.3	-49.38	-361.4	478.0	193.7	173.5	20.23	9.576		
4,700.0	4,674.0	4,694.5	4,649.8	11.6	13.6	-49.31	-370.6	490.0	198.6	177.9	20.68	9.601		
4,800.0	4,773.4	4,794.4	4,748.5	11.9	13.9	-49.25	-379.8	501.9	203.4	182.3	21.14	9.625		
4,900.0	4,872.7	4,894.3	4,847.3	12.2	14.2	-49.19	-389.0	513.8	208.3	186.7	21.59	9.647		
5,000.0	4,972.1	4,994.2	4,946.0	12.4	14.6	-49.14	-398.2	525.7	213.2	191.1	22.05	9.669		
5,100.0	5,071.4	5,094.0	5,044.7	12.7	14.9	-49.09	-407.5	537.6	218.0	195.5	22.50	9.690		

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 3O-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 3O-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: 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
5,200.0	5,170.8	5,193.9	5,143.5	13.0	15.2	-49.03	-416.7	549.5	222.9	199.9	22.95	9.710	
5,300.0	5,270.2	5,293.8	5,242.2	13.2	15.5	-48.99	-425.9	561.4	227.7	204.3	23.41	9.729	
5,400.0	5,369.5	5,393.7	5,341.0	13.5	15.8	-48.94	-435.1	573.3	232.6	208.7	23.86	9.748	
5,500.0	5,468.9	5,493.6	5,439.7	13.8	16.1	-48.89	-444.3	585.2	237.4	213.1	24.31	9.765	
5,600.0	5,568.2	5,593.4	5,538.4	14.0	16.5	-48.85	-453.5	597.1	242.3	217.5	24.77	9.783	
5,700.0	5,667.6	5,693.3	5,637.2	14.3	16.8	-48.81	-462.7	609.1	247.1	221.9	25.22	9.799	
5,800.0	5,766.9	5,793.2	5,735.9	14.6	17.1	-48.77	-471.9	621.0	252.0	226.3	25.67	9.815	
5,900.0	5,866.3	5,893.1	5,834.7	14.8	17.4	-48.73	-481.1	632.9	256.9	230.7	26.13	9.831	
6,000.0	5,965.6	5,993.0	5,933.4	15.1	17.7	-48.70	-490.3	644.8	261.7	235.1	26.58	9.846	
6,100.0	6,065.0	6,092.9	6,032.2	15.3	18.0	-48.66	-499.5	656.7	266.6	239.5	27.03	9.860	
6,200.0	6,164.3	6,192.7	6,130.9	15.6	18.4	-48.63	-508.7	668.6	271.4	243.9	27.49	9.874	
6,300.0	6,263.7	6,292.6	6,229.6	15.9	18.7	-48.59	-517.9	680.5	276.3	248.3	27.94	9.887	
6,400.0	6,363.0	6,392.5	6,328.4	16.1	19.0	-48.56	-527.1	692.4	281.1	252.7	28.40	9.901	
6,500.0	6,462.4	6,492.4	6,427.1	16.4	19.3	-48.53	-536.3	704.3	286.0	257.1	28.85	9.913	
6,600.0	6,561.7	6,592.3	6,525.9	16.7	19.6	-48.50	-545.5	716.2	290.8	261.5	29.30	9.925	
6,700.0	6,661.1	6,692.1	6,624.6	16.9	19.9	-48.47	-554.7	728.2	295.7	265.9	29.76	9.937	
6,800.0	6,760.5	6,792.0	6,723.3	17.2	20.3	-48.44	-563.9	740.1	300.6	270.3	30.21	9.949	
6,900.0	6,859.8	6,893.1	6,823.4	17.5	20.5	-49.05	-569.8	752.1	305.3	274.5	30.75	9.927	
7,000.0	6,959.2	6,991.3	6,920.3	17.7	20.6	-52.52	-559.9	763.8	310.1	278.4	31.78	9.759	
7,100.0	7,058.7	7,082.6	7,007.7	17.9	20.6	24.51	-535.8	774.4	317.4	284.4	33.01	9.615	
7,200.0	7,157.5	7,170.0	7,086.7	17.9	20.5	60.03	-499.9	783.9	327.1	293.5	33.65	9.721	
7,300.0	7,252.6	7,254.2	7,156.9	17.8	20.4	63.02	-454.3	792.4	338.5	304.9	33.57	10.081	
7,400.0	7,341.0	7,336.0	7,218.0	17.5	20.2	61.98	-400.5	799.7	350.3	317.5	32.77	10.690	
7,500.0	7,420.1	7,415.9	7,269.7	17.2	20.0	60.18	-340.1	806.0	361.8	330.4	31.36	11.538	
7,600.0	7,487.5	7,494.2	7,311.9	16.9	19.8	58.43	-274.3	811.1	372.1	342.6	29.56	12.587	
7,700.0	7,541.1	7,571.5	7,344.4	16.6	19.7	57.00	-204.4	815.0	380.7	353.0	27.70	13.742	
7,800.0	7,579.3	7,650.0	7,367.6	16.4	19.7	55.97	-129.5	817.8	387.1	361.0	26.16	14.797	
7,900.0	7,601.0	7,723.9	7,379.9	16.3	19.7	55.44	-56.7	819.3	391.0	365.7	25.35	15.427	
8,000.0	7,606.0	7,804.8	7,383.0	16.5	19.8	55.36	24.1	819.6	392.3	366.9	25.48	15.396	
8,100.0	7,606.0	7,904.8	7,383.0	16.8	20.0	55.43	124.1	819.6	393.1	366.9	26.16	15.027	
8,200.0	7,606.0	8,004.8	7,383.0	17.3	20.4	55.51	224.1	819.6	393.8	366.6	27.13	14.517	
8,300.0	7,606.0	8,104.8	7,383.0	17.9	21.0	55.58	324.1	819.6	394.5	366.1	28.36	13.909	
8,400.0	7,606.0	8,204.8	7,383.0	18.7	21.7	55.65	424.1	819.6	395.2	365.4	29.83	13.247	
8,500.0	7,606.0	8,304.8	7,383.0	19.6	22.4	55.72	524.1	819.6	395.9	364.4	31.51	12.566	
8,600.0	7,606.0	8,404.8	7,383.0	20.6	23.3	55.79	624.1	819.6	396.7	363.3	33.36	11.891	
8,700.0	7,606.0	8,504.8	7,383.0	21.8	24.3	55.86	724.1	819.6	397.4	362.0	35.35	11.240	
8,800.0	7,606.0	8,604.8	7,383.0	23.0	25.4	55.93	824.1	819.6	398.1	360.6	37.48	10.623	
8,900.0	7,606.0	8,704.8	7,383.0	24.2	26.5	56.00	924.1	819.6	398.8	359.1	39.71	10.045	
9,000.0	7,606.0	8,804.8	7,383.0	25.5	27.8	56.07	1,024.1	819.6	399.5	357.5	42.02	9.507	
9,100.0	7,606.0	8,904.8	7,383.0	26.9	29.0	56.14	1,124.1	819.6	400.3	355.9	44.42	9.011	
9,200.0	7,606.0	9,004.8	7,383.0	28.3	30.3	56.21	1,224.1	819.6	401.0	354.1	46.88	8.553	
9,300.0	7,606.0	9,104.8	7,383.0	29.8	31.7	56.28	1,324.1	819.6	401.7	352.3	49.40	8.132	
9,400.0	7,606.0	9,204.8	7,383.0	31.3	33.1	56.35	1,424.1	819.6	402.4	350.5	51.97	7.744	
9,500.0	7,606.0	9,304.8	7,383.0	32.8	34.5	56.42	1,524.1	819.6	403.2	348.6	54.58	7.386	
9,600.0	7,606.0	9,404.8	7,383.0	34.3	36.0	56.49	1,624.1	819.6	403.9	346.7	57.23	7.057	
9,700.0	7,606.0	9,504.8	7,383.0	35.9	37.5	56.56	1,724.1	819.6	404.6	344.7	59.92	6.753	
9,800.0	7,606.0	9,604.8	7,383.0	37.4	39.0	56.62	1,824.1	819.6	405.4	342.7	62.63	6.472	
9,900.0	7,606.0	9,704.8	7,383.0	39.0	40.5	56.69	1,924.1	819.6	406.1	340.7	65.37	6.212	
10,000.0	7,606.0	9,804.8	7,383.0	40.6	42.0	56.76	2,024.0	819.6	406.8	338.7	68.13	5.971	
10,100.0	7,606.0	9,904.8	7,383.0	42.2	43.6	56.83	2,124.0	819.6	407.5	336.6	70.92	5.747	
10,200.0	7,606.0	10,004.8	7,383.0	43.9	45.2	56.89	2,224.0	819.6	408.3	334.6	73.72	5.538	
10,300.0	7,606.0	10,104.7	7,383.0	45.5	46.7	56.96	2,324.0	819.6	409.0	332.5	76.55	5.343	

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 3O-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 3O-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			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.0	7,606.0	10,204.7	7,383.0	47.1	48.3	57.03	2,424.0	819.6	409.7	330.4	79.39	5.161	
10,500.0	7,606.0	10,304.7	7,383.0	48.8	50.0	57.09	2,524.0	819.6	410.5	328.2	82.24	4.991	
10,600.0	7,606.0	10,404.7	7,383.0	50.4	51.6	57.16	2,624.0	819.6	411.2	326.1	85.11	4.831	
10,700.0	7,606.0	10,504.7	7,383.0	52.1	53.2	57.22	2,724.0	819.6	411.9	323.9	87.99	4.682	
10,800.0	7,606.0	10,604.7	7,383.0	53.8	54.8	57.29	2,824.0	819.6	412.7	321.8	90.89	4.541	
10,900.0	7,606.0	10,704.7	7,383.0	55.4	56.5	57.35	2,924.0	819.6	413.4	319.6	93.79	4.408	
11,000.0	7,606.0	10,804.7	7,383.0	57.1	58.1	57.42	3,024.0	819.6	414.1	317.4	96.71	4.282	
11,079.7	7,606.0	10,880.7	7,383.0	58.5	59.4	57.47	3,100.0	819.6	414.7	315.8	98.98	4.190 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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				Total		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	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	56.68	185.8	282.6	338.2						
100.0	100.0	99.0	99.0	0.2	0.2	56.68	185.8	282.6	338.2	337.8	0.32	1,043.048			
200.0	200.0	199.0	199.0	0.3	0.3	56.68	185.8	282.6	338.2	337.5	0.67	502.588			
300.0	300.0	299.0	299.0	0.5	0.5	-84.64	185.8	282.6	338.2	337.1	1.02	331.014			
400.0	400.0	399.0	399.0	0.7	0.7	-84.94	185.8	282.6	338.0	336.6	1.37	246.314			
500.0	499.9	498.9	498.9	0.9	0.9	-85.53	185.8	282.6	337.7	336.0	1.73	195.385			
600.0	599.8	598.8	598.8	1.1	1.0	-86.42	185.8	282.6	337.3	335.2	2.09	161.111			
700.0	699.5	698.5	698.5	1.3	1.2	-87.60	185.8	282.6	337.0	334.5	2.47	136.320			
800.0	799.2	798.2	798.2	1.5	1.4	-89.08	185.8	282.6	336.7	333.9	2.87	117.493			
854.0	852.9	851.9	851.9	1.6	1.5	-90.00	185.8	282.6	336.7	333.6	3.09	109.010 CC			
900.0	898.6	897.6	897.6	1.7	1.6	-90.85	185.8	282.6	336.7	333.4	3.28	102.704			
1,000.0	998.0	997.0	997.0	2.0	1.7	-92.77	185.8	282.6	337.1	333.4	3.70	91.181 ES			
1,100.0	1,097.3	1,096.3	1,096.3	2.2	1.9	-94.68	185.8	282.6	337.8	333.7	4.12	82.025			
1,200.0	1,196.7	1,195.7	1,195.7	2.5	2.1	-96.58	185.8	282.6	338.9	334.4	4.54	74.628			
1,300.0	1,296.0	1,295.0	1,295.0	2.7	2.3	-98.47	185.8	282.6	340.4	335.5	4.97	68.563			
1,400.0	1,395.4	1,394.4	1,394.4	3.0	2.4	-100.33	185.8	282.6	342.3	336.9	5.39	63.529			
1,500.0	1,494.7	1,493.7	1,493.7	3.2	2.6	-102.18	185.8	282.6	344.5	338.7	5.81	59.304			
1,600.0	1,594.1	1,593.1	1,593.1	3.5	2.8	-104.00	185.8	282.6	347.1	340.9	6.23	55.726			
1,700.0	1,693.4	1,692.4	1,692.4	3.8	2.9	-105.79	185.8	282.6	350.1	343.4	6.65	52.673			
1,800.0	1,792.8	1,791.8	1,791.8	4.0	3.1	-107.56	185.8	282.6	353.3	346.3	7.06	50.048			
1,900.0	1,892.1	1,891.1	1,891.1	4.3	3.3	-109.28	185.8	282.6	356.9	349.5	7.47	47.779			
2,000.0	1,991.5	1,990.5	1,990.5	4.5	3.5	-110.98	185.8	282.6	360.9	353.0	7.88	45.807			
2,100.0	2,090.8	2,089.8	2,089.8	4.8	3.6	-112.63	185.8	282.6	365.1	356.8	8.28	44.086			
2,200.0	2,190.2	2,189.2	2,189.2	5.1	3.8	-114.25	185.8	282.6	369.7	361.0	8.68	42.577			
2,300.0	2,289.6	2,288.6	2,288.6	5.3	4.0	-115.82	185.8	282.6	374.5	365.4	9.08	41.250			
2,400.0	2,388.9	2,387.9	2,387.9	5.6	4.2	-117.36	185.8	282.6	379.6	370.1	9.47	40.079			
2,500.0	2,488.3	2,487.3	2,487.3	5.8	4.3	-118.85	185.8	282.6	385.0	375.1	9.86	39.043			
2,600.0	2,587.6	2,586.6	2,586.6	6.1	4.5	-120.30	185.8	282.6	390.6	380.4	10.25	38.124			
2,700.0	2,687.0	2,686.0	2,686.0	6.4	4.7	-121.71	185.8	282.6	396.5	385.8	10.63	37.307			
2,800.0	2,786.3	2,785.3	2,785.3	6.6	4.8	-123.08	185.8	282.6	402.6	391.6	11.01	36.579			
2,900.0	2,885.7	2,884.7	2,884.7	6.9	5.0	-124.41	185.8	282.6	408.9	397.5	11.38	35.930			
3,000.0	2,985.0	2,984.0	2,984.0	7.2	5.2	-125.69	185.8	282.6	415.5	403.7	11.75	35.349			
3,100.0	3,084.4	3,083.4	3,083.4	7.4	5.4	-126.94	185.8	282.6	422.2	410.1	12.12	34.830			
3,200.0	3,183.7	3,182.7	3,182.7	7.7	5.5	-128.15	185.8	282.6	429.2	416.7	12.49	34.365			
3,300.0	3,283.1	3,282.1	3,282.1	8.0	5.7	-129.32	185.8	282.6	436.3	423.5	12.85	33.947			
3,400.0	3,382.4	3,381.4	3,381.4	8.2	5.9	-130.45	185.8	282.6	443.6	430.4	13.21	33.572			
3,500.0	3,481.8	3,480.8	3,480.8	8.5	6.1	-131.54	185.8	282.6	451.1	437.5	13.57	33.235			
3,600.0	3,581.1	3,580.1	3,580.1	8.7	6.2	-132.60	185.8	282.6	458.7	444.8	13.93	32.932			
3,700.0	3,680.5	3,679.5	3,679.5	9.0	6.4	-133.62	185.8	282.6	466.5	452.2	14.28	32.659			
3,800.0	3,779.9	3,778.9	3,778.9	9.3	6.6	-134.61	185.8	282.6	474.4	459.8	14.64	32.414			
3,900.0	3,879.2	3,878.2	3,878.2	9.5	6.8	-135.57	185.8	282.6	482.5	467.5	14.99	32.193			
4,000.0	3,978.6	3,977.6	3,977.6	9.8	6.9	-136.49	185.8	282.6	490.7	475.4	15.34	31.993			
4,100.0	4,077.9	4,076.9	4,076.9	10.1	7.1	-137.39	185.8	282.6	499.0	483.3	15.69	31.814 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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	69.91	157.7	431.1	469.2					
100.0	100.0	3.0	3.0	0.2	0.0	69.91	157.7	431.1	459.1	458.9	0.16	2,918.837		
200.0	200.0	103.0	103.0	0.3	0.2	69.91	157.7	431.1	459.1	458.6	0.51	906.646		
300.0	300.0	203.0	203.0	0.5	0.4	-71.40	157.7	431.1	459.0	458.1	0.86	536.561		
400.0	400.0	303.0	303.0	0.7	0.5	-71.61	157.7	431.1	458.5	457.2	1.21	380.044		
500.0	499.9	402.9	402.9	0.9	0.7	-72.04	157.7	431.1	457.4	455.8	1.56	292.768		
600.0	599.8	502.8	502.8	1.1	0.9	-72.68	157.7	431.1	455.8	453.8	1.93	236.573		
700.0	699.5	602.5	602.5	1.3	1.1	-73.53	157.7	431.1	453.7	451.4	2.30	197.034		
800.0	799.2	702.2	702.2	1.5	1.2	-74.62	157.7	431.1	451.3	448.6	2.69	167.506		
900.0	898.6	801.6	801.6	1.7	1.4	-75.92	157.7	431.1	448.7	445.6	3.10	144.502		
1,000.0	998.0	901.0	901.0	2.0	1.6	-77.33	157.7	431.1	446.0	442.5	3.52	126.609		
1,100.0	1,097.3	1,000.3	1,000.3	2.2	1.7	-78.75	157.7	431.1	443.7	439.7	3.95	112.428		
1,200.0	1,196.7	1,099.7	1,099.7	2.5	1.9	-80.19	157.7	431.1	441.6	437.2	4.37	100.968		
1,300.0	1,296.0	1,199.0	1,199.0	2.7	2.1	-81.63	157.7	431.1	439.8	435.0	4.80	91.551		
1,400.0	1,395.4	1,298.4	1,298.4	3.0	2.3	-83.09	157.7	431.1	438.2	433.0	5.24	83.704		
1,500.0	1,494.7	1,397.7	1,397.7	3.2	2.4	-84.56	157.7	431.1	437.0	431.3	5.67	77.084		
1,600.0	1,594.1	1,497.1	1,497.1	3.5	2.6	-86.04	157.7	431.1	436.1	430.0	6.10	71.443		
1,700.0	1,693.4	1,596.4	1,596.4	3.8	2.8	-87.52	157.7	431.1	435.4	428.9	6.54	66.592		
1,800.0	1,792.8	1,695.8	1,695.8	4.0	3.0	-89.00	157.7	431.1	435.1	428.1	6.97	62.389		
1,867.1	1,859.5	1,762.5	1,762.5	4.2	3.1	-90.00	157.7	431.1	435.0	427.8	7.27	59.875		
1,900.0	1,892.1	1,795.1	1,795.1	4.3	3.1	-90.49	157.7	431.1	435.0	427.6	7.41	58.723		
2,000.0	1,991.5	1,894.5	1,894.5	4.5	3.3	-91.97	157.7	431.1	435.3	427.4	7.84	55.507		
2,100.0	2,090.8	1,993.8	1,993.8	4.8	3.5	-93.46	157.7	431.1	435.8	427.6	8.27	52.672		
2,200.0	2,190.2	2,093.2	2,093.2	5.1	3.7	-94.93	157.7	431.1	436.7	428.0	8.71	50.160		
2,300.0	2,289.6	2,192.6	2,192.6	5.3	3.8	-96.40	157.7	431.1	437.8	428.7	9.13	47.928		
2,400.0	2,388.9	2,291.9	2,291.9	5.6	4.0	-97.87	157.7	431.1	439.2	429.7	9.56	45.936		
2,500.0	2,488.3	2,391.3	2,391.3	5.8	4.2	-99.32	157.7	431.1	440.9	430.9	9.99	44.154		
2,600.0	2,587.6	2,490.6	2,490.6	6.1	4.3	-100.76	157.7	431.1	442.9	432.5	10.41	42.555		
2,700.0	2,687.0	2,590.0	2,590.0	6.4	4.5	-102.19	157.7	431.1	445.2	434.4	10.83	41.117		
2,800.0	2,786.3	2,689.3	2,689.3	6.6	4.7	-103.60	157.7	431.1	447.7	436.5	11.24	39.822		
2,900.0	2,885.7	2,788.7	2,788.7	6.9	4.9	-104.99	157.7	431.1	450.6	438.9	11.66	38.653		
3,000.0	2,985.0	2,888.0	2,888.0	7.2	5.0	-106.37	157.7	431.1	453.6	441.6	12.07	37.596		
3,100.0	3,084.4	2,987.4	2,987.4	7.4	5.2	-107.73	157.7	431.1	457.0	444.5	12.47	36.639		
3,200.0	3,183.7	3,086.7	3,086.7	7.7	5.4	-109.07	157.7	431.1	460.6	447.7	12.88	35.771		
3,300.0	3,283.1	3,186.1	3,186.1	8.0	5.6	-110.38	157.7	431.1	464.5	451.2	13.28	34.984		
3,400.0	3,382.4	3,285.4	3,285.4	8.2	5.7	-111.68	157.7	431.1	468.5	454.9	13.67	34.270		
3,500.0	3,481.8	3,384.8	3,384.8	8.5	5.9	-112.95	157.7	431.1	472.9	458.8	14.07	33.620		
3,600.0	3,581.1	3,484.1	3,484.1	8.7	6.1	-114.20	157.7	431.1	477.4	463.0	14.46	33.030		
3,700.0	3,680.5	3,583.5	3,583.5	9.0	6.3	-115.42	157.7	431.1	482.2	467.4	14.84	32.493		
3,800.0	3,779.9	3,682.9	3,682.9	9.3	6.4	-116.62	157.7	431.1	487.2	472.0	15.22	32.004		
3,900.0	3,879.2	3,782.2	3,782.2	9.5	6.6	-117.80	157.7	431.1	492.5	476.9	15.60	31.560		
4,000.0	3,978.6	3,881.6	3,881.6	9.8	6.8	-118.95	157.7	431.1	497.9	481.9	15.98	31.155		
7,700.0	7,541.1	7,444.1	7,444.1	16.6	13.0	-21.22	157.7	431.1	427.9	408.4	19.47	21.979		
7,800.0	7,579.3	7,482.3	7,482.3	16.4	13.1	-35.19	157.7	431.1	337.3	317.0	20.33	16.593		
7,900.0	7,601.0	7,504.0	7,504.0	16.3	13.1	-65.22	157.7	431.1	242.6	217.5	25.08	9.671		
8,000.0	7,606.0	7,509.0	7,509.0	16.5	13.1	-90.00	157.7	431.1	148.9	121.8	27.06	5.502		
8,100.0	7,606.0	7,509.0	7,509.0	16.8	13.1	-90.00	157.7	431.1	73.0	45.6	27.43	2.662		
8,134.2	7,606.0	7,509.0	7,509.0	16.9	13.1	-90.00	157.7	431.1	64.5	36.9	27.62	2.336 CC, ES, SF		
8,200.0	7,606.0	7,509.0	7,509.0	17.3	13.1	-90.00	157.7	431.1	92.2	64.2	28.00	3.293		
8,300.0	7,606.0	7,509.0	7,509.0	17.9	13.1	-90.00	157.7	431.1	177.9	149.2	28.75	6.191		
8,400.0	7,606.0	7,509.0	7,509.0	18.7	13.1	-90.00	157.7	431.1	273.6	243.9	29.64	9.228		
8,500.0	7,606.0	7,509.0	7,509.0	19.6	13.1	-90.00	157.7	431.1	371.5	340.8	30.67	12.111		

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 3O-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 3O-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						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,600.0	7,606.0	7,509.0	7,509.0	20.6	13.1	-90.00	157.7	431.1	470.3	438.5	31.81	14.784	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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							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	3.2	3.2	0.0	0.0	65.95	189.1	423.6	463.9					
100.0	100.0	104.9	104.9	0.2	0.2	65.78	190.0	422.6	463.3	463.0	0.31	1,505.446		
122.8	122.8	125.8	125.8	0.2	0.2	65.73	190.4	422.4	463.3	462.9	0.38	1,205.193		
200.0	200.0	196.0	195.9	0.3	0.3	65.52	192.2	422.1	463.9	463.2	0.65	718.909		
300.0	300.0	283.5	283.4	0.5	0.5	-76.12	195.9	423.2	466.7	465.7	0.98	474.672		
400.0	400.0	367.1	366.8	0.7	0.7	-76.68	201.2	426.0	472.1	470.8	1.32	358.255		
500.0	499.9	456.9	456.1	0.9	0.9	-77.48	208.5	431.4	480.2	478.5	1.67	287.537		
600.0	599.8	545.0	543.6	1.1	1.1	-78.40	216.4	438.1	490.0	488.0	2.03	241.598		
8,600.0	7,606.0	7,657.5	7,607.2	20.6	19.3	89.75	843.3	887.9	452.8	416.6	36.20	12.509		
8,700.0	7,606.0	7,658.4	7,608.1	21.8	19.3	89.88	843.3	887.9	414.6	377.2	37.43	11.078		
8,800.0	7,606.0	7,659.3	7,609.0	23.0	19.3	90.01	843.3	887.9	398.5	359.7	38.73	10.289		
8,815.7	7,606.0	7,659.4	7,609.2	23.2	19.3	90.03	843.3	887.9	398.2	359.2	38.94	10.224 CC, ES		
8,900.0	7,606.0	7,660.2	7,610.0	24.2	19.3	90.14	843.3	887.9	407.0	366.9	40.09	10.151 SF		
9,000.0	7,606.0	7,661.1	7,610.9	25.5	19.3	90.27	843.3	887.9	438.7	397.2	41.50	10.571		
9,100.0	7,606.0	7,662.0	7,611.8	26.9	19.3	90.40	843.3	887.9	489.2	446.3	42.96	11.388		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3O-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 3O-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		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	3.1	3.1	0.0	0.0	68.33	171.2	430.8	463.6						
100.0	100.0	105.0	105.0	0.2	0.2	68.39	170.6	430.7	463.3	0.31	1,505.777				
193.3	193.3	196.3	196.3	0.3	0.3	68.61	168.8	431.1	462.9	0.63	731.915				
200.0	200.0	202.4	202.4	0.3	0.3	68.64	168.6	431.1	462.9	0.66	706.521				
300.0	300.0	299.1	298.9	0.5	0.5	-72.06	164.2	433.3	462.3	1.02	455.869				
400.0	400.0	392.2	391.8	0.7	0.7	-71.27	157.4	437.2	464.2	1.40	332.631				
500.0	499.9	484.7	483.7	0.9	0.9	-70.40	149.1	443.6	466.6	1.80	258.972				
600.0	599.8	583.1	581.1	1.1	1.2	-69.49	139.0	451.6	469.2	2.25	208.521				
700.0	699.5	687.8	684.8	1.3	1.5	-68.62	127.2	460.1	471.0	2.74	172.028				
800.0	799.2	791.6	787.8	1.5	1.8	-68.05	115.9	467.5	471.4	3.23	145.807				
900.0	898.6	890.8	886.1	1.7	2.1	-67.67	104.5	474.0	470.5	3.75	125.601				
1,000.0	998.0	986.3	980.5	2.0	2.4	-67.24	92.5	481.3	470.0	4.27	110.099				
1,003.9	1,001.9	990.0	984.2	2.0	2.4	-67.22	92.0	481.6	470.0	4.29	109.570				
1,100.0	1,097.3	1,077.6	1,070.8	2.2	2.7	-66.79	81.2	489.5	470.8	4.77	98.623				
1,200.0	1,196.7	1,182.4	1,174.5	2.5	3.0	-66.41	69.2	499.3	472.3	5.31	88.959				
1,300.0	1,296.0	1,282.0	1,273.0	2.7	3.3	-66.08	58.0	507.8	473.2	5.84	81.072				
1,400.0	1,395.4	1,383.9	1,373.9	3.0	3.6	-65.71	46.2	516.4	473.8	6.37	74.389				
1,500.0	1,494.7	1,480.3	1,469.3	3.2	3.9	-65.40	35.4	524.8	474.7	6.88	68.988				
1,600.0	1,594.1	1,580.3	1,568.3	3.5	4.2	-65.08	24.4	533.7	476.0	7.41	64.259				
1,700.0	1,693.4	1,678.7	1,665.6	3.8	4.5	-64.73	13.2	542.8	477.5	7.93	60.230				
1,800.0	1,792.8	1,781.4	1,767.3	4.0	4.8	-64.47	2.3	551.9	478.8	8.45	56.677				
1,900.0	1,892.1	1,883.2	1,868.2	4.3	5.1	-64.21	-8.6	560.5	479.7	8.97	53.503				
2,000.0	1,991.5	1,986.3	1,970.4	4.5	5.4	-64.07	-18.8	568.4	480.0	9.48	50.635				
2,100.0	2,090.8	2,087.1	2,070.4	4.8	5.7	-63.88	-29.3	575.8	479.9	10.00	48.007				
2,161.3	2,151.7	2,147.8	2,130.6	5.0	5.8	-63.73	-35.9	580.4	479.9	10.31	46.540				
2,200.0	2,190.2	2,186.0	2,168.5	5.1	6.0	-63.63	-40.1	583.3	479.9	10.51	45.670				
2,300.0	2,289.6	2,285.9	2,267.5	5.3	6.2	-63.40	-50.8	590.9	480.1	11.02	43.578				
2,400.0	2,388.9	2,388.6	2,369.3	5.6	6.5	-63.19	-61.6	598.5	480.0	11.54	41.609				
2,500.0	2,488.3	2,488.2	2,468.1	5.8	6.8	-62.88	-73.1	605.6	479.5	12.06	39.761				
2,547.6	2,535.5	2,534.2	2,513.5	6.0	7.0	-62.67	-78.9	609.1	479.4	12.30	38.963				
2,600.0	2,587.6	2,583.9	2,562.7	6.1	7.1	-62.45	-85.1	613.2	479.6	12.57	38.151				
2,700.0	2,687.0	2,678.0	2,655.7	6.4	7.4	-62.03	-96.6	621.6	480.7	13.07	36.777				
2,800.0	2,786.3	2,778.9	2,755.4	6.6	7.8	-61.63	-108.5	631.3	482.7	13.58	35.534				
2,900.0	2,885.7	2,881.1	2,856.5	6.9	8.1	-61.29	-120.0	640.4	484.1	14.10	34.336				
3,000.0	2,985.0	2,981.3	2,955.6	7.2	8.4	-60.93	-131.7	649.1	485.2	14.61	33.204				
3,100.0	3,084.4	3,081.7	3,055.1	7.4	8.7	-60.59	-143.3	657.9	486.3	15.11	32.191				
3,200.0	3,183.7	3,186.3	3,158.7	7.7	9.0	-60.38	-154.2	666.2	486.9	15.62	31.178				
3,300.0	3,283.1	3,279.7	3,251.2	8.0	9.3	-60.08	-164.8	674.0	487.8	16.11	30.270				
3,400.0	3,382.4	3,384.8	3,355.2	8.2	9.6	-59.71	-177.1	682.8	488.7	16.62	29.398				
3,500.0	3,481.8	3,482.3	3,451.8	8.5	9.9	-59.45	-187.8	690.8	489.4	17.11	28.607				
3,600.0	3,581.1	3,583.1	3,551.6	8.7	10.2	-59.24	-198.4	699.1	490.4	17.60	27.858				
3,700.0	3,680.5	3,686.0	3,653.7	9.0	10.5	-59.02	-209.3	707.2	490.9	18.10	27.118				
3,800.0	3,779.9	3,788.5	3,755.4	9.3	10.7	-58.82	-220.0	714.7	490.8	18.60	26.387				
3,900.0	3,879.2	3,889.6	3,855.6	9.5	11.0	-58.55	-231.3	721.7	490.4	19.09	25.683				
4,000.0	3,978.6	3,989.0	3,954.2	9.8	11.3	-58.32	-242.2	728.5	489.9	19.58	25.018				
4,085.9	4,063.9	4,073.1	4,037.5	10.0	11.6	-58.10	-251.4	734.5	489.7	20.00	24.491				
4,100.0	4,077.9	4,086.9	4,051.2	10.1	11.6	-58.07	-253.0	735.6	489.7	20.07	24.408				
4,200.0	4,177.3	4,189.7	4,153.1	10.3	11.9	-57.82	-264.1	743.1	489.8	20.55	23.832				
4,300.0	4,276.6	4,295.4	4,258.1	10.6	12.2	-57.72	-274.5	749.5	488.6	21.04	23.220				
4,400.0	4,376.0	4,394.9	4,357.0	10.9	12.4	-57.69	-283.8	754.9	486.9	21.53	22.617				
4,500.0	4,475.3	4,494.5	4,455.9	11.1	12.7	-57.58	-293.7	760.5	485.3	22.01	22.049				
4,600.0	4,574.7	4,591.4	4,552.2	11.4	12.9	-57.50	-303.1	766.4	484.2	22.48	21.537				

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 3O-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 3O-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				Total		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	Separation Factor		
4,700.0	4,674.0	4,691.9	4,652.0	11.6	13.2	-57.37	-313.2	772.6	483.1	460.2	22.97	21.031		
4,744.7	4,718.4	4,732.0	4,691.8	11.8	13.3	-57.30	-317.4	775.3	482.9	459.7	23.18	20.836		
4,800.0	4,773.4	4,783.2	4,742.5	11.9	13.5	-57.21	-322.6	779.3	483.2	459.8	23.43	20.623		
4,900.0	4,872.7	4,883.5	4,842.1	12.2	13.8	-57.10	-332.3	787.3	484.0	460.1	23.91	20.241		
5,000.0	4,972.1	4,982.1	4,939.8	12.4	14.1	-56.91	-342.5	795.4	484.9	460.5	24.39	19.881		
5,100.0	5,071.4	5,084.5	5,041.3	12.7	14.3	-56.77	-352.7	803.8	486.0	461.1	24.87	19.538		
5,200.0	5,170.8	5,184.7	5,140.9	13.0	14.6	-56.80	-361.3	811.2	486.3	461.0	25.35	19.183		
5,300.0	5,270.2	5,279.0	5,234.5	13.2	14.9	-56.81	-369.4	818.9	487.4	461.6	25.82	18.874		
5,400.0	5,369.5	5,373.7	5,328.4	13.5	15.1	-56.74	-378.2	828.0	489.8	463.5	26.30	18.626		
5,500.0	5,468.9	5,474.3	5,428.0	13.8	15.4	-56.58	-388.2	838.1	492.6	465.9	26.77	18.401		
5,600.0	5,568.2	5,578.9	5,531.7	14.0	15.7	-56.49	-398.0	847.9	494.9	467.6	27.26	18.154		
5,700.0	5,667.6	5,679.7	5,631.7	14.3	16.0	-56.37	-407.8	856.6	496.3	468.6	27.74	17.890		
5,800.0	5,766.9	5,782.0	5,733.0	14.6	16.3	-56.24	-417.9	865.5	497.9	469.7	28.21	17.649		
5,900.0	5,866.3	5,889.8	5,840.1	14.8	16.6	-56.35	-426.4	873.5	498.3	469.6	28.71	17.357		
6,000.0	5,965.6	5,993.3	5,943.3	15.1	16.8	-56.66	-433.0	879.7	497.4	468.2	29.20	17.036		
6,100.0	6,065.0	6,095.9	6,045.6	15.3	17.0	-57.17	-437.8	885.1	496.0	466.3	29.70	16.700		
6,200.0	6,164.3	6,200.6	6,150.1	15.6	17.2	-57.84	-441.6	889.8	493.9	463.6	30.22	16.343		
6,300.0	6,263.7	6,300.5	6,250.0	15.9	17.3	-58.62	-444.1	893.6	491.3	460.6	30.73	15.988		
6,400.0	6,363.0	6,403.7	6,353.1	16.1	17.5	-59.55	-445.8	896.8	488.4	457.1	31.26	15.622		
6,500.0	6,462.4	6,500.9	6,450.3	16.4	17.6	-60.48	-447.0	899.9	485.7	453.9	31.78	15.280		
6,600.0	6,561.7	6,602.9	6,552.2	16.7	17.8	-61.49	-448.1	903.0	482.9	450.6	32.32	14.943		
6,700.0	6,661.1	6,703.0	6,652.2	16.9	17.9	-62.58	-448.5	905.8	480.2	447.4	32.85	14.619		
6,800.0	6,760.5	6,806.9	6,756.1	17.2	18.1	-63.83	-448.1	907.8	477.1	443.7	33.40	14.286		
6,900.0	6,859.8	6,909.9	6,859.1	17.5	18.2	-65.16	-447.5	908.8	473.3	439.4	33.94	13.944		
7,000.0	6,959.2	7,009.5	6,958.7	17.7	18.3	-66.52	-446.5	909.3	469.3	434.8	34.48	13.611		
7,100.0	7,058.7	7,110.7	7,059.9	17.9	18.4	15.62	-445.0	909.6	464.2	429.5	34.77	13.352		
7,200.0	7,157.5	7,210.1	7,159.3	17.9	18.5	58.56	-443.6	909.4	454.3	419.9	34.43	13.195		
7,300.0	7,252.6	7,304.2	7,253.4	17.8	18.6	70.75	-442.4	909.5	441.6	408.0	33.58	13.152 SF		
7,400.0	7,341.0	7,392.2	7,341.3	17.5	18.7	79.98	-440.6	909.7	429.4	397.0	32.42	13.245		
7,500.0	7,420.1	7,473.2	7,422.3	17.2	18.7	88.60	-438.7	910.1	422.8	391.6	31.20	13.551 ES		
7,517.3	7,432.7	7,486.7	7,435.8	17.1	18.8	90.02	-438.3	910.1	422.6	391.6	31.00	13.633 CC		
7,600.0	7,487.5	7,545.8	7,494.9	16.9	18.8	96.06	-436.7	910.1	427.3	397.2	30.17	14.166		
7,700.0	7,541.1	7,602.3	7,551.4	16.6	18.9	100.70	-435.0	909.8	448.3	418.7	29.61	15.144		
7,800.0	7,579.3	7,644.5	7,593.5	16.4	18.9	101.86	-433.7	909.5	488.3	458.6	29.64	16.474		

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 3O-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 3O-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) - WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,100.0	7,606.0	7,650.1	7,492.4	16.8	21.8	-68.64	546.9	303.9	470.2	441.2	28.93	16.251		
8,200.0	7,606.0	7,661.8	7,503.9	17.3	21.9	-71.93	548.0	302.0	382.2	352.3	29.89	12.786		
8,300.0	7,606.0	7,672.9	7,514.8	17.9	21.9	-75.06	549.0	300.3	301.4	270.4	30.95	9.737		
8,400.0	7,606.0	7,683.3	7,525.0	18.7	22.0	-78.04	550.0	298.7	235.4	203.3	32.11	7.331		
8,500.0	7,606.0	7,693.1	7,534.7	19.6	22.0	-80.87	550.8	297.2	199.5	166.2	33.34	5.985		
8,528.6	7,606.0	7,695.8	7,537.3	19.9	22.0	-81.65	551.0	296.8	197.5	163.8	33.71	5.858 CC, ES, SF		
8,600.0	7,606.0	7,702.3	7,543.8	20.6	22.0	-83.54	551.6	295.9	209.9	175.3	34.63	6.061		
8,700.0	7,606.0	7,711.0	7,552.4	21.8	22.0	-86.05	552.3	294.7	261.0	225.1	35.96	7.260		
8,800.0	7,606.0	7,719.3	7,560.5	23.0	22.1	-88.42	552.9	293.5	334.8	297.5	37.31	8.974		
8,900.0	7,606.0	7,727.1	7,568.3	24.2	22.1	-90.65	553.5	292.5	419.4	380.8	38.68	10.844		

Anticollision Report

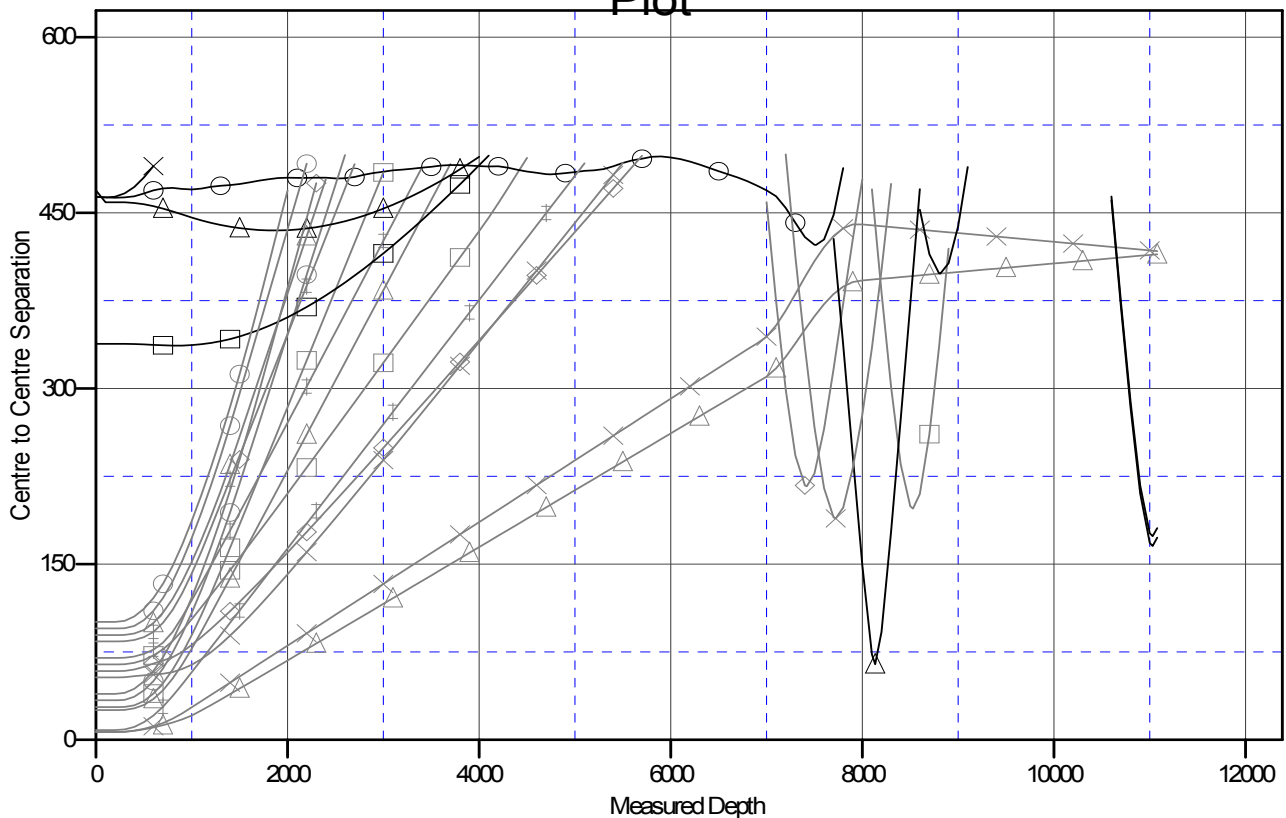
Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Reference Site: S32-T2N-R68W (File)
Site Error: 0.0ft
Reference Well: File 3O-32H-K268
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well File 3O-32H-K268
TVD Reference: WELL @ 4971.0ft (Original Well Elev)
MD Reference: WELL @ 4971.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: USA EDM 5000 Multi Users DB
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 3O-32H-K268
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.30°

Ladder Plot



LEGEND

File 3K-32H-K268, Hz, Plan #1 V0	File 3M-32H-K268, Hz, Plan #1 V0	ANDERSON 22-32 ENC (EXISTING)
File 3J-32H-K268, Hz, Plan #1 V0	File 3B-32H-K268, Hz, Plan #1 V0	File 3H-32H-K268, Hz, Plan #1 V0
NELSON 4 (EXISTING), TEXAS TEA WELL, NOSURVEYS V0	File 3A-32H-K268, Hz, Plan #1 V0	
File 3P-32H-K268, Hz, Plan #1 V0	File 3I-32H-K268, Hz, Plan #1 V0	
RAY NELSON 4-4-32 (EXISTING), ENCANA WELL, SURVEYS V0		
ANDERSON 21-32 (EXISTING), ENCANA WELL, NOSURVEYS V0		
File 3G-32H-K268, Hz, Plan #1 V0		
RAY NELSON 23-32 (EXISTING), ENCANA WELL, NOSURVEYS V0		

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