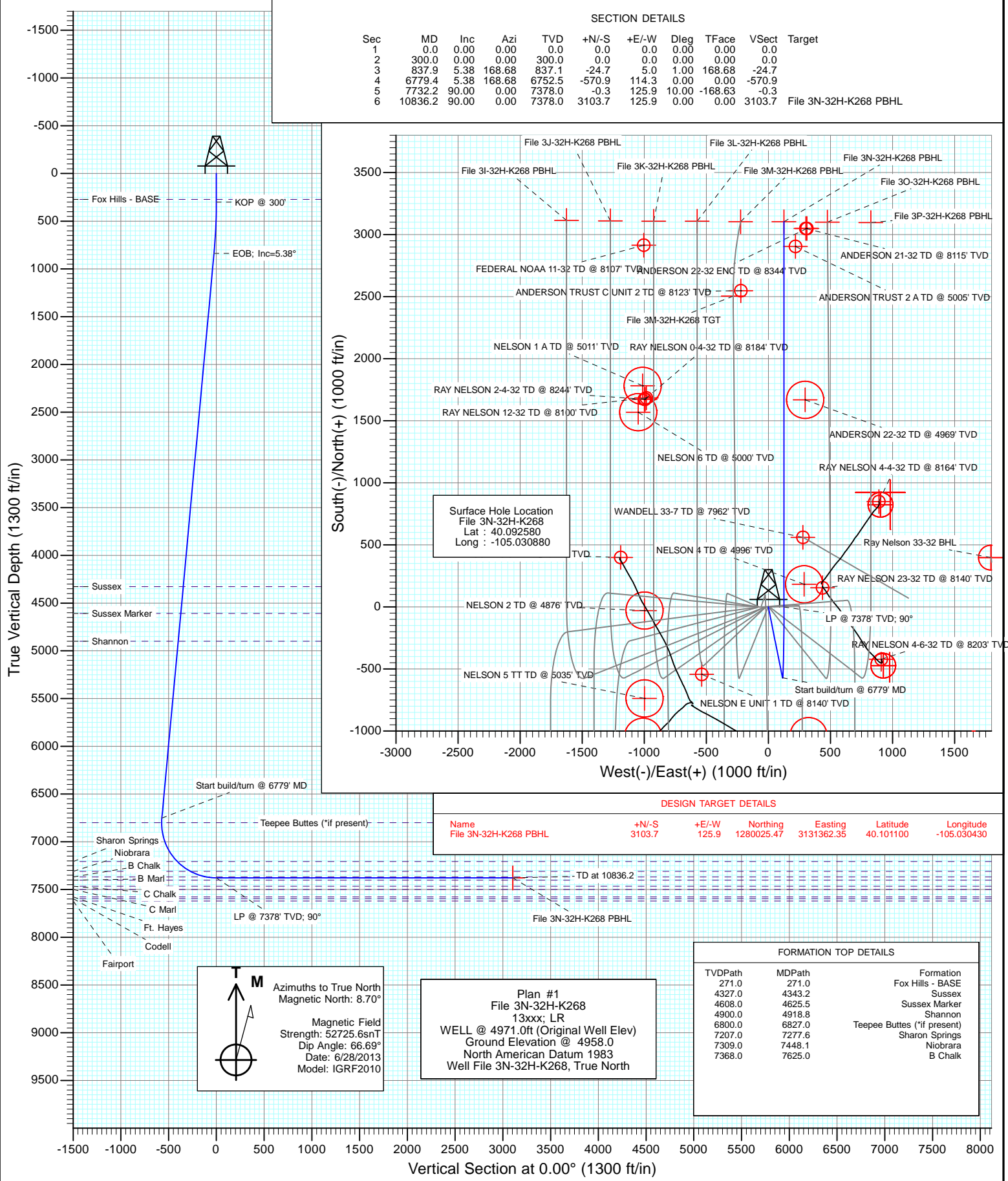




Project: DJ Wattenberg
 Site: S32-T2N-R68W (File)
 Well: File 3N-32H-K268
 Wellbore: Hz
 Design: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	837.9	5.38	168.68	837.1	-24.7	5.0	1.00	168.68	-24.7	
4	6779.4	5.38	168.68	6752.5	-570.9	114.3	0.00	0.00	-570.9	
5	7732.2	90.00	0.00	7378.0	-0.3	125.9	10.00	-168.63	-0.3	
6	10836.2	90.00	0.00	7378.0	3103.7	125.9	0.00	0.00	3103.7	File 3N-32H-K268 PBHL

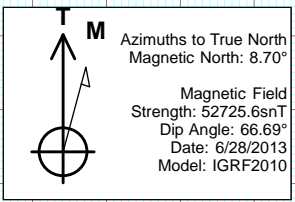
Surface Hole Location
 File 3N-32H-K268
 Lat : 40.092580
 Long : -105.030880

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
File 3N-32H-K268 PBHL	3103.7	125.9	1280025.47	3131362.35	40.101100	-105.030430

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
271.0	271.0	Fox Hills - BASE
4327.0	4343.2	Sussex
4608.0	4625.5	Sussex Marker
4900.0	4918.8	Shannon
6800.0	6827.0	Teepee Buttes (*if present)
7207.0	7277.6	Sharon Springs
7309.0	7448.1	Niobrara
7368.0	7625.0	B Chalk



Plan #1
 File 3N-32H-K268
 13xxx; LR
 WELL @ 4971.0ft (Original Well Elev)
 Ground Elevation @ 4958.0
 North American Datum 1983
 Well File 3N-32H-K268, True North

Vertical Section at 0.00° (1300 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3N-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 3N-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
From:	Lat/Long	Easting:	3,133,277.97 ft
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	40.089950
		Longitude:	-105.023660
		Grid Convergence:	0.31 °

Well File 3N-32H-K268			
Well Position	+N/-S	0.0 ft	Northing: 1,276,921.19 ft
	+E/-W	0.0 ft	Easting: 3,131,252.89 ft
Position Uncertainty		0.0 ft	Wellhead Elevation: ft
			Latitude: 40.092580
			Longitude: -105.030880
			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)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
837.9	5.38	168.68	837.1	-24.7	5.0	1.00	1.00	0.00	168.68	
6,779.4	5.38	168.68	6,752.5	-570.9	114.3	0.00	0.00	0.00	0.00	
7,732.2	90.00	0.00	7,378.0	-0.3	125.9	10.00	8.88	-17.70	-168.63	
10,836.2	90.00	0.00	7,378.0	3,103.7	125.9	0.00	0.00	0.00	0.00	File 3N-32H-K268 PB

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: S32-T2N-R68W (File)
Well: File 3N-32H-K268
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well File 3N-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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
271.0	0.00	0.00	271.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE KOP @ 300'
400.0	1.00	168.68	400.0	-0.9	0.2	-0.9	1.00	1.00	
500.0	2.00	168.68	500.0	-3.4	0.7	-3.4	1.00	1.00	
600.0	3.00	168.68	599.9	-7.7	1.5	-7.7	1.00	1.00	
700.0	4.00	168.68	699.7	-13.7	2.7	-13.7	1.00	1.00	
800.0	5.00	168.68	799.4	-21.4	4.3	-21.4	1.00	1.00	
837.9	5.38	168.68	837.1	-24.7	5.0	-24.7	1.00	1.00	EOB; Inc=5.38°
900.0	5.38	168.68	898.9	-30.4	6.1	-30.4	0.00	0.00	
1,000.0	5.38	168.68	998.5	-39.6	7.9	-39.6	0.00	0.00	
1,100.0	5.38	168.68	1,098.1	-48.8	9.8	-48.8	0.00	0.00	
1,200.0	5.38	168.68	1,197.6	-58.0	11.6	-58.0	0.00	0.00	
1,300.0	5.38	168.68	1,297.2	-67.2	13.5	-67.2	0.00	0.00	
1,400.0	5.38	168.68	1,396.7	-76.4	15.3	-76.4	0.00	0.00	
1,500.0	5.38	168.68	1,496.3	-85.6	17.1	-85.6	0.00	0.00	
1,600.0	5.38	168.68	1,595.9	-94.8	19.0	-94.8	0.00	0.00	
1,700.0	5.38	168.68	1,695.4	-104.0	20.8	-104.0	0.00	0.00	
1,800.0	5.38	168.68	1,795.0	-113.2	22.7	-113.2	0.00	0.00	
1,900.0	5.38	168.68	1,894.5	-122.4	24.5	-122.4	0.00	0.00	
2,000.0	5.38	168.68	1,994.1	-131.6	26.3	-131.6	0.00	0.00	
2,100.0	5.38	168.68	2,093.7	-140.7	28.2	-140.7	0.00	0.00	
2,200.0	5.38	168.68	2,193.2	-149.9	30.0	-149.9	0.00	0.00	
2,300.0	5.38	168.68	2,292.8	-159.1	31.9	-159.1	0.00	0.00	
2,400.0	5.38	168.68	2,392.3	-168.3	33.7	-168.3	0.00	0.00	
2,500.0	5.38	168.68	2,491.9	-177.5	35.5	-177.5	0.00	0.00	
2,600.0	5.38	168.68	2,591.5	-186.7	37.4	-186.7	0.00	0.00	
2,700.0	5.38	168.68	2,691.0	-195.9	39.2	-195.9	0.00	0.00	
2,800.0	5.38	168.68	2,790.6	-205.1	41.1	-205.1	0.00	0.00	
2,900.0	5.38	168.68	2,890.1	-214.3	42.9	-214.3	0.00	0.00	
3,000.0	5.38	168.68	2,989.7	-223.5	44.8	-223.5	0.00	0.00	
3,100.0	5.38	168.68	3,089.2	-232.7	46.6	-232.7	0.00	0.00	
3,200.0	5.38	168.68	3,188.8	-241.9	48.4	-241.9	0.00	0.00	
3,300.0	5.38	168.68	3,288.4	-251.0	50.3	-251.0	0.00	0.00	
3,400.0	5.38	168.68	3,387.9	-260.2	52.1	-260.2	0.00	0.00	
3,500.0	5.38	168.68	3,487.5	-269.4	54.0	-269.4	0.00	0.00	
3,600.0	5.38	168.68	3,587.0	-278.6	55.8	-278.6	0.00	0.00	
3,700.0	5.38	168.68	3,686.6	-287.8	57.6	-287.8	0.00	0.00	
3,800.0	5.38	168.68	3,786.2	-297.0	59.5	-297.0	0.00	0.00	
3,900.0	5.38	168.68	3,885.7	-306.2	61.3	-306.2	0.00	0.00	
4,000.0	5.38	168.68	3,985.3	-315.4	63.2	-315.4	0.00	0.00	
4,100.0	5.38	168.68	4,084.8	-324.6	65.0	-324.6	0.00	0.00	
4,200.0	5.38	168.68	4,184.4	-333.8	66.8	-333.8	0.00	0.00	
4,300.0	5.38	168.68	4,284.0	-343.0	68.7	-343.0	0.00	0.00	
4,343.2	5.38	168.68	4,327.0	-346.9	69.5	-346.9	0.00	0.00	Sussex
4,400.0	5.38	168.68	4,383.5	-352.2	70.5	-352.2	0.00	0.00	
4,500.0	5.38	168.68	4,483.1	-361.4	72.4	-361.4	0.00	0.00	
4,600.0	5.38	168.68	4,582.6	-370.5	74.2	-370.5	0.00	0.00	
4,625.5	5.38	168.68	4,608.0	-372.9	74.7	-372.9	0.00	0.00	Sussex Marker
4,700.0	5.38	168.68	4,682.2	-379.7	76.0	-379.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3N-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 3N-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
4,800.0	5.38	168.68	4,781.8	-388.9	77.9	-388.9	0.00	0.00	
4,900.0	5.38	168.68	4,881.3	-398.1	79.7	-398.1	0.00	0.00	
4,918.8	5.38	168.68	4,900.0	-399.8	80.1	-399.8	0.00	0.00	Shannon
5,000.0	5.38	168.68	4,980.9	-407.3	81.6	-407.3	0.00	0.00	
5,100.0	5.38	168.68	5,080.4	-416.5	83.4	-416.5	0.00	0.00	
5,200.0	5.38	168.68	5,180.0	-425.7	85.2	-425.7	0.00	0.00	
5,300.0	5.38	168.68	5,279.6	-434.9	87.1	-434.9	0.00	0.00	
5,400.0	5.38	168.68	5,379.1	-444.1	88.9	-444.1	0.00	0.00	
5,500.0	5.38	168.68	5,478.7	-453.3	90.8	-453.3	0.00	0.00	
5,600.0	5.38	168.68	5,578.2	-462.5	92.6	-462.5	0.00	0.00	
5,700.0	5.38	168.68	5,677.8	-471.7	94.4	-471.7	0.00	0.00	
5,800.0	5.38	168.68	5,777.4	-480.8	96.3	-480.8	0.00	0.00	
5,900.0	5.38	168.68	5,876.9	-490.0	98.1	-490.0	0.00	0.00	
6,000.0	5.38	168.68	5,976.5	-499.2	100.0	-499.2	0.00	0.00	
6,100.0	5.38	168.68	6,076.0	-508.4	101.8	-508.4	0.00	0.00	
6,200.0	5.38	168.68	6,175.6	-517.6	103.7	-517.6	0.00	0.00	
6,300.0	5.38	168.68	6,275.2	-526.8	105.5	-526.8	0.00	0.00	
6,400.0	5.38	168.68	6,374.7	-536.0	107.3	-536.0	0.00	0.00	
6,500.0	5.38	168.68	6,474.3	-545.2	109.2	-545.2	0.00	0.00	
6,600.0	5.38	168.68	6,573.8	-554.4	111.0	-554.4	0.00	0.00	
6,700.0	5.38	168.68	6,673.4	-563.6	112.9	-563.6	0.00	0.00	
6,779.4	5.38	168.68	6,752.5	-570.9	114.3	-570.9	0.00	0.00	Start build/turn @ 6779' MD
6,800.0	3.39	161.80	6,773.0	-572.4	114.7	-572.4	10.00	-9.69	
6,827.0	1.18	115.89	6,800.0	-573.3	115.2	-573.3	10.00	-8.17	Teepee Buttes (*if present)
6,900.0	6.86	8.83	6,872.8	-569.3	116.5	-569.3	10.00	7.79	
7,000.0	16.81	3.51	6,970.5	-548.9	118.3	-548.9	10.00	9.95	
7,100.0	26.80	2.10	7,063.3	-511.8	120.1	-511.8	10.00	9.99	
7,200.0	36.80	1.42	7,148.2	-459.2	121.6	-459.2	10.00	9.99	
7,277.6	44.56	1.08	7,207.0	-408.7	122.7	-408.7	10.00	10.00	Sharon Springs
7,300.0	46.79	1.00	7,222.6	-392.7	123.0	-392.7	10.00	10.00	
7,400.0	56.79	0.69	7,284.4	-314.2	124.2	-314.2	10.00	10.00	
7,448.1	61.59	0.57	7,309.0	-273.0	124.6	-273.0	10.00	10.00	Niobrara
7,500.0	66.79	0.45	7,331.6	-226.2	125.0	-226.2	10.00	10.00	
7,600.0	76.78	0.25	7,362.8	-131.3	125.6	-131.3	10.00	10.00	
7,625.0	79.28	0.20	7,368.0	-106.9	125.7	-106.9	10.00	10.00	B Chalk
7,700.0	86.78	0.06	7,377.1	-32.5	125.9	-32.5	10.00	10.00	
7,732.2	90.00	0.00	7,378.0	-0.3	125.9	-0.3	10.00	10.00	LP @ 7378' TVD; 90°
7,800.0	90.00	0.00	7,378.0	67.5	125.9	67.5	0.00	0.00	
7,900.0	90.00	0.00	7,378.0	167.5	125.9	167.5	0.00	0.00	
8,000.0	90.00	0.00	7,378.0	267.5	125.9	267.5	0.00	0.00	
8,100.0	90.00	0.00	7,378.0	367.5	125.9	367.5	0.00	0.00	
8,200.0	90.00	0.00	7,378.0	467.5	125.9	467.5	0.00	0.00	
8,300.0	90.00	0.00	7,378.0	567.5	125.9	567.5	0.00	0.00	
8,400.0	90.00	0.00	7,378.0	667.5	125.9	667.5	0.00	0.00	
8,500.0	90.00	0.00	7,378.0	767.5	125.9	767.5	0.00	0.00	
8,600.0	90.00	0.00	7,378.0	867.5	125.9	867.5	0.00	0.00	
8,700.0	90.00	0.00	7,378.0	967.5	125.9	967.5	0.00	0.00	
8,800.0	90.00	0.00	7,378.0	1,067.5	125.9	1,067.5	0.00	0.00	
8,900.0	90.00	0.00	7,378.0	1,167.5	125.9	1,167.5	0.00	0.00	
9,000.0	90.00	0.00	7,378.0	1,267.5	125.9	1,267.5	0.00	0.00	
9,100.0	90.00	0.00	7,378.0	1,367.5	125.9	1,367.5	0.00	0.00	
9,200.0	90.00	0.00	7,378.0	1,467.5	125.9	1,467.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3N-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 3N-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	0.00	7,378.0	1,567.5	125.9	1,567.5	0.00	0.00	
9,400.0	90.00	0.00	7,378.0	1,667.5	125.9	1,667.5	0.00	0.00	
9,500.0	90.00	0.00	7,378.0	1,767.5	125.9	1,767.5	0.00	0.00	
9,600.0	90.00	0.00	7,378.0	1,867.5	125.9	1,867.5	0.00	0.00	
9,700.0	90.00	0.00	7,378.0	1,967.5	125.9	1,967.5	0.00	0.00	
9,800.0	90.00	0.00	7,378.0	2,067.5	125.9	2,067.5	0.00	0.00	
9,900.0	90.00	0.00	7,378.0	2,167.5	125.9	2,167.5	0.00	0.00	
10,000.0	90.00	0.00	7,378.0	2,267.5	125.9	2,267.5	0.00	0.00	
10,100.0	90.00	0.00	7,378.0	2,367.5	125.9	2,367.5	0.00	0.00	
10,200.0	90.00	0.00	7,378.0	2,467.5	125.9	2,467.5	0.00	0.00	
10,300.0	90.00	0.00	7,378.0	2,567.5	125.9	2,567.5	0.00	0.00	
10,400.0	90.00	0.00	7,378.0	2,667.5	125.9	2,667.5	0.00	0.00	
10,500.0	90.00	0.00	7,378.0	2,767.5	125.9	2,767.5	0.00	0.00	
10,600.0	90.00	0.00	7,378.0	2,867.5	125.9	2,867.5	0.00	0.00	
10,700.0	90.00	0.00	7,378.0	2,967.5	125.9	2,967.5	0.00	0.00	
10,800.0	90.00	0.00	7,378.0	3,067.5	125.9	3,067.5	0.00	0.00	
10,836.2	90.00	0.00	7,378.0	3,103.7	125.9	3,103.7	0.00	0.00	TD at 10836.2

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
File 3N-32H-K268 PBHL - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,378.0	3,103.7	125.9	1,280,025.47	3,131,362.35	40.101100	-105.030430

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
271.0	271.0	Fox Hills - BASE				
4,343.2	4,327.0	Sussex				
4,625.5	4,608.0	Sussex Marker				
4,918.8	4,900.0	Shannon				
6,827.0	6,800.0	Teepee Buttes (*if present)				
7,277.6	7,207.0	Sharon Springs				
7,448.1	7,309.0	Niobrara				
7,625.0	7,368.0	B Chalk				

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3N-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 3N-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300'
837.9	837.1	-24.7	5.0	EOB; Inc=5.38°
6,779.4	6,752.5	-570.9	114.3	Start build/turn @ 6779' MD
7,732.2	7,378.0	-0.3	125.9	LP @ 7378' TVD; 90°
10,836.2	7,378.0	3,103.7	125.9	TD at 10836.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3N-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	6/28/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,836.2	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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	10,781.5	7,344.0	176.2	106.6	2.532	CC, ES, SF
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -	10,781.5	7,344.0	184.6	115.0	2.652	CC, ES, SF
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W	10,280.3	6,773.0	347.2	287.0	5.774	CC, ES
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W	10,300.0	6,773.0	347.7	287.3	5.752	SF
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - Plan #2						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3A-32H-K268 - Hz - Plan #1	200.0	199.0	95.2	94.5	146.224	CC, ES
File 3A-32H-K268 - Hz - Plan #1	1,100.0	1,075.1	176.7	172.8	44.358	SF
File 3B-32H-K268 - Hz - Plan #1	300.0	299.0	89.5	88.5	89.521	CC, ES
File 3B-32H-K268 - Hz - Plan #1	1,000.0	982.2	145.5	142.0	40.969	SF
File 3C-32H-K268 - Hz - Plan #1	300.0	299.0	84.0	83.0	84.005	CC
File 3C-32H-K268 - Hz - Plan #1	400.0	399.0	84.1	82.8	62.343	ES
File 3C-32H-K268 - Hz - Plan #1	1,100.0	1,084.3	138.4	134.4	34.704	SF
File 3D-32H-K268 - Hz - Plan #1	300.0	299.0	78.3	77.3	78.331	CC
File 3D-32H-K268 - Hz - Plan #1	400.0	399.0	78.5	77.2	58.167	ES
File 3D-32H-K268 - Hz - Plan #1	900.0	891.3	103.2	100.0	32.527	SF
File 3E-32H-K268 - Hz - Plan #1	300.0	300.0	64.5	63.4	64.334	CC
File 3E-32H-K268 - Hz - Plan #1	400.0	400.0	64.6	63.2	47.782	ES
File 3E-32H-K268 - Hz - Plan #1	7,400.0	7,531.6	483.6	455.6	17.304	SF
File 3F-32H-K268 - Hz - Plan #1	300.0	300.0	58.8	57.8	58.646	CC
File 3F-32H-K268 - Hz - Plan #1	400.0	400.0	58.9	57.6	43.602	ES
File 3F-32H-K268 - Hz - Plan #1	7,713.0	7,408.1	146.0	119.6	5.535	SF
File 3G-32H-K268 - Hz - Plan #1	796.6	798.5	52.8	50.0	18.908	CC
File 3G-32H-K268 - Hz - Plan #1	800.0	801.9	52.8	50.0	18.825	ES
File 3G-32H-K268 - Hz - Plan #1	7,442.9	7,413.5	145.3	117.7	5.252	SF
File 3H-32H-K268 - Hz - Plan #1	801.1	803.5	41.0	38.2	14.598	CC, ES
File 3H-32H-K268 - Hz - Plan #1	1,000.0	1,001.5	46.5	42.9	12.967	SF
File 3I-32H-K268 - Hz - Plan #1	200.0	200.0	33.8	33.1	51.735	CC, ES
File 3I-32H-K268 - Hz - Plan #1	700.0	695.8	56.5	54.0	23.150	SF
File 3J-32H-K268 - Hz - Plan #1	233.4	233.4	28.0	27.2	36.367	CC
File 3J-32H-K268 - Hz - Plan #1	300.0	299.8	28.2	27.2	28.130	ES
File 3J-32H-K268 - Hz - Plan #1	600.0	598.0	39.1	37.0	18.917	SF
File 3K-32H-K268 - Hz - Plan #1	300.0	300.0	22.7	21.7	22.635	CC
File 3K-32H-K268 - Hz - Plan #1	400.0	399.8	22.9	21.6	16.960	ES
File 3K-32H-K268 - Hz - Plan #1	600.0	599.0	28.4	26.3	13.748	SF
File 3L-32H-K268 - Hz - Plan #1	300.0	300.0	19.6	18.6	19.549	CC
File 3L-32H-K268 - Hz - Plan #1	400.0	400.0	19.8	18.4	14.631	ES
File 3L-32H-K268 - Hz - Plan #1	600.0	599.6	23.4	21.4	11.363	SF
File 3M-32H-K268 - Hz - Plan #1	200.0	200.0	4.6	3.9	7.037	CC, ES
File 3M-32H-K268 - Hz - Plan #1	10,837.1	11,073.3	417.4	319.0	4.239	SF
File 3O-32H-K268 - Hz - Plan #1	233.5	233.5	6.7	5.9	8.676	CC
File 3O-32H-K268 - Hz - Plan #1	300.0	299.9	6.9	5.9	6.870	ES
File 3O-32H-K268 - Hz - Plan #1	10,837.1	11,077.4	417.5	319.1	4.245	SF
File 3P-32H-K268 - Hz - Plan #1	200.0	200.0	11.2	10.5	17.144	CC, ES
File 3P-32H-K268 - Hz - Plan #1	500.0	499.4	16.8	15.1	9.808	SF
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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)						
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	300.0	299.0	340.9	339.9	333.724	CC
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	400.0	399.0	341.2	339.8	248.930	ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	3,300.0	3,287.4	494.2	482.1	40.640	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	7,886.6	7,281.0	310.8	284.0	11.598	CC, ES
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	7,900.0	7,281.0	311.1	284.3	11.581	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	123.8	126.9	466.9	466.5	1,198.022	CC, ES
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	600.0	544.6	497.6	495.6	246.461	SF
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	191.5	194.6	466.9	466.2	744.494	CC
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	200.0	202.2	466.9	466.2	711.890	ES
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	1,000.0	984.4	496.3	492.1	117.598	SF
Ray Nelson 7-8-32 - DD - Plan #1						Out of range
Ray Nelson 8-8-32 - DD - Plan #2						Out of range
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1	8,263.5	7,538.5	209.9	177.4	6.455	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

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 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 8115-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,400.0	7,378.0	7,344.0	7,344.0	50.4	12.8	90.00	3,049.0	302.1	420.3	357.1	63.14	6.656		
10,500.0	7,378.0	7,344.0	7,344.0	52.1	12.8	90.00	3,049.0	302.1	332.1	267.3	64.83	5.123		
10,600.0	7,378.0	7,344.0	7,344.0	53.8	12.8	90.00	3,049.0	302.1	253.0	186.5	66.53	3.803		
10,700.0	7,378.0	7,344.0	7,344.0	55.5	12.8	90.00	3,049.0	302.1	194.2	126.0	68.23	2.846		
10,781.5	7,378.0	7,344.0	7,344.0	56.8	12.8	90.00	3,049.0	302.1	176.2	106.6	69.62	2.532	CC, ES, SF	
10,800.0	7,378.0	7,344.0	7,344.0	57.2	12.8	90.00	3,049.0	302.1	177.2	107.3	69.93	2.534		
10,837.1	7,378.0	7,344.0	7,344.0	57.8	12.8	90.00	3,049.0	302.1	184.8	114.2	70.56	2.619		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,400.0	7,378.0	7,344.0	7,344.0	50.4	12.8	90.00	3,049.0	310.5	423.9	360.7	63.14	6.713			
10,500.0	7,378.0	7,344.0	7,344.0	52.1	12.8	90.00	3,049.0	310.5	336.7	271.8	64.83	5.193			
10,600.0	7,378.0	7,344.0	7,344.0	53.8	12.8	90.00	3,049.0	310.5	258.9	192.4	66.53	3.892			
10,700.0	7,378.0	7,344.0	7,344.0	55.5	12.8	90.00	3,049.0	310.5	201.8	133.6	68.23	2.958			
10,781.5	7,378.0	7,344.0	7,344.0	56.8	12.8	90.00	3,049.0	310.5	184.6	115.0	69.62	2.652 CC, ES, SF			
10,800.0	7,378.0	7,344.0	7,344.0	57.2	12.8	90.00	3,049.0	310.5	185.6	115.6	69.93	2.653			
10,837.1	7,378.0	7,344.0	7,344.0	57.8	12.8	90.00	3,049.0	310.5	192.8	122.2	70.56	2.732			

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 3N-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 3N-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													Offset Site Error:	0.0 ft	
Survey Program: 8123-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,000.0	7,378.0	6,773.0	6,773.0	43.7	11.8	-90.00	2,547.8	-221.3	446.2	390.8	55.42	8.051			
10,100.0	7,378.0	6,773.0	6,773.0	45.3	11.8	-90.00	2,547.8	-221.3	391.2	334.1	57.09	6.852			
10,200.0	7,378.0	6,773.0	6,773.0	47.0	11.8	-90.00	2,547.8	-221.3	356.3	297.6	58.77	6.063			
10,280.3	7,378.0	6,773.0	6,773.0	48.3	11.8	-90.00	2,547.8	-221.3	347.2	287.0	60.12	5.774 CC, ES			
10,300.0	7,378.0	6,773.0	6,773.0	48.7	11.8	-90.00	2,547.8	-221.3	347.7	287.3	60.45	5.752 SF			
10,400.0	7,378.0	6,773.0	6,773.0	50.4	11.8	-90.00	2,547.8	-221.3	367.2	305.1	62.14	5.910			
10,500.0	7,378.0	6,773.0	6,773.0	52.1	11.8	-90.00	2,547.8	-221.3	410.8	347.0	63.83	6.436			
10,600.0	7,378.0	6,773.0	6,773.0	53.8	11.8	-90.00	2,547.8	-221.3	472.0	406.4	65.53	7.202			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3A-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-92.19	-3.6	-95.1	95.2					
100.0	100.0	99.0	99.0	0.2	0.2	-92.19	-3.6	-95.1	95.2	94.9	0.30	315.032		
200.0	200.0	199.0	199.0	0.3	0.3	-92.19	-3.6	-95.1	95.2	94.5	0.65	146.224	CC, ES	
300.0	300.0	297.4	297.4	0.5	0.5	-92.24	-3.7	-95.9	96.0	95.0	1.00	96.289		
400.0	400.0	395.7	395.6	0.7	0.7	99.42	-4.1	-98.4	98.7	97.4	1.34	73.447		
500.0	500.0	493.8	493.7	0.9	0.9	100.56	-4.6	-102.6	103.4	101.7	1.69	61.047		
600.0	599.9	591.7	591.4	1.0	1.1	102.33	-5.4	-108.4	110.2	108.2	2.05	53.746		
700.0	699.7	689.3	688.7	1.2	1.3	104.52	-6.3	-115.8	119.2	116.8	2.42	49.320		
800.0	799.4	786.4	785.4	1.4	1.5	106.92	-7.5	-124.9	130.5	127.7	2.80	46.670		
900.0	898.9	883.1	881.5	1.7	1.7	109.33	-8.9	-135.5	144.1	140.9	3.19	45.231		
1,000.0	998.5	979.3	976.9	1.9	2.0	111.21	-10.4	-147.6	159.6	156.0	3.58	44.544		
1,100.0	1,098.1	1,075.1	1,071.7	2.1	2.3	112.59	-12.2	-161.3	176.7	172.8	3.98	44.358	SF	
1,200.0	1,197.6	1,170.3	1,165.7	2.4	2.6	113.56	-14.2	-176.4	195.5	191.1	4.39	44.522		
1,300.0	1,297.2	1,265.0	1,258.9	2.6	2.9	114.21	-16.3	-193.0	215.9	211.1	4.80	44.937		
1,400.0	1,396.7	1,359.1	1,351.2	2.8	3.2	114.61	-18.7	-211.0	237.8	232.5	5.22	45.538		
1,500.0	1,496.3	1,452.6	1,442.6	3.0	3.6	114.81	-21.2	-230.4	261.1	255.5	5.64	46.283		
1,600.0	1,595.9	1,545.3	1,533.0	3.3	4.0	114.86	-23.9	-251.0	286.0	279.9	6.07	47.140		
1,700.0	1,695.4	1,637.3	1,622.3	3.5	4.4	114.80	-26.7	-273.0	312.2	305.7	6.49	48.093		
1,800.0	1,795.0	1,732.6	1,714.5	3.8	4.9	114.69	-29.8	-296.7	339.5	332.6	6.93	49.004		
1,900.0	1,894.5	1,828.8	1,807.7	4.0	5.3	114.58	-32.9	-320.7	366.8	359.4	7.37	49.789		
2,000.0	1,994.1	1,925.0	1,900.8	4.2	5.8	114.49	-36.0	-344.6	394.1	386.3	7.81	50.477		
2,100.0	2,093.7	2,021.2	1,993.9	4.5	6.2	114.41	-39.1	-368.6	421.3	413.1	8.25	51.087		
2,200.0	2,193.2	2,117.4	2,087.0	4.7	6.7	114.35	-42.2	-392.6	448.6	439.9	8.69	51.629		
2,300.0	2,292.8	2,213.6	2,180.1	4.9	7.1	114.29	-45.3	-416.6	475.9	466.8	9.13	52.115		

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 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
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		
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-89.5	89.5	88.5	1.00	89.521	CC, ES	
400.0	400.0	397.5	397.5	0.7	0.7	101.90	0.1	-90.4	90.5	89.2	1.35	67.212		
500.0	500.0	495.8	495.8	0.9	0.8	103.53	0.3	-92.9	93.7	92.0	1.70	55.192		
600.0	599.9	593.9	593.8	1.0	1.0	106.03	0.7	-97.0	99.1	97.0	2.05	48.249		
700.0	699.7	691.7	691.4	1.2	1.2	109.07	1.2	-102.9	106.9	104.5	2.42	44.224		
800.0	799.4	789.0	788.4	1.4	1.4	112.36	1.9	-110.3	117.3	114.6	2.79	42.050		
900.0	898.9	885.8	884.8	1.7	1.6	115.57	2.8	-119.3	130.4	127.2	3.17	41.141		
1,000.0	998.5	982.2	980.6	1.9	1.9	118.14	3.8	-129.9	145.5	142.0	3.55	40.969	SF	
1,100.0	1,098.1	1,078.1	1,075.7	2.1	2.1	120.09	4.9	-142.1	162.5	158.5	3.94	41.272		
1,200.0	1,197.6	1,173.5	1,170.1	2.4	2.4	121.52	6.2	-155.7	181.2	176.8	4.32	41.892		
1,300.0	1,297.2	1,268.3	1,263.7	2.6	2.7	122.56	7.6	-170.8	201.5	196.8	4.72	42.732		
1,400.0	1,396.7	1,362.5	1,356.4	2.8	3.0	123.29	9.1	-187.3	223.4	218.3	5.11	43.725		
1,500.0	1,496.3	1,458.0	1,450.2	3.0	3.4	123.80	10.8	-205.4	246.7	241.2	5.51	44.773		
1,600.0	1,595.9	1,555.2	1,545.6	3.3	3.7	124.21	12.6	-224.0	270.2	264.3	5.92	45.666		
1,700.0	1,695.4	1,652.4	1,640.9	3.5	4.1	124.56	14.3	-242.6	293.7	287.3	6.32	46.432		
1,800.0	1,795.0	1,749.6	1,736.3	3.8	4.4	124.86	16.0	-261.2	317.1	310.4	6.73	47.093		
1,900.0	1,894.5	1,846.8	1,831.7	4.0	4.8	125.12	17.8	-279.8	340.6	333.5	7.15	47.669		
2,000.0	1,994.1	1,944.0	1,927.1	4.2	5.1	125.34	19.5	-298.3	364.1	356.6	7.56	48.175		
2,100.0	2,093.7	2,041.1	2,022.5	4.5	5.5	125.54	21.2	-316.9	387.6	379.7	7.97	48.622		
2,200.0	2,193.2	2,138.3	2,117.8	4.7	5.9	125.71	23.0	-335.5	411.1	402.8	8.39	49.021		
2,300.0	2,292.8	2,235.5	2,213.2	4.9	6.2	125.87	24.7	-354.1	434.7	425.9	8.80	49.377		
2,400.0	2,392.3	2,332.7	2,308.6	5.2	6.6	126.01	26.4	-372.7	458.2	449.0	9.22	49.697		
2,500.0	2,491.9	2,429.9	2,404.0	5.4	7.0	126.13	28.2	-391.3	481.7	472.1	9.64	49.987		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													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	-92.49	-3.6	-83.9	84.0						
100.0	100.0	99.0	99.0	0.2	0.2	-92.49	-3.6	-83.9	84.0	83.7	0.30	278.028			
200.0	200.0	199.0	199.0	0.3	0.3	-92.49	-3.6	-83.9	84.0	83.4	0.65	129.048			
300.0	300.0	299.0	299.0	0.5	0.5	-92.49	-3.6	-83.9	84.0	83.0	1.00	84.005 CC			
400.0	400.0	399.0	399.0	0.7	0.7	99.42	-3.6	-83.9	84.1	82.8	1.35	62.343 ES			
500.0	500.0	497.6	497.6	0.9	0.8	100.99	-3.9	-84.7	85.4	83.7	1.70	50.243			
600.0	599.9	596.0	596.0	1.0	1.0	103.28	-4.5	-87.2	88.8	86.8	2.06	43.169			
700.0	699.7	694.2	694.1	1.2	1.2	106.04	-5.6	-91.2	94.4	92.0	2.42	38.956			
800.0	799.4	792.2	791.9	1.4	1.4	109.02	-7.0	-96.9	102.4	99.6	2.80	36.530			
900.0	898.9	889.9	889.3	1.7	1.6	111.89	-8.9	-104.2	112.7	109.5	3.19	35.304			
1,000.0	998.5	987.2	986.2	1.9	1.8	113.99	-11.3	-113.0	124.8	121.2	3.59	34.781			
1,100.0	1,098.1	1,084.3	1,082.7	2.1	2.0	115.38	-14.0	-123.4	138.4	134.4	3.99	34.704 SF			
1,200.0	1,197.6	1,181.0	1,178.5	2.4	2.3	116.22	-17.1	-135.3	153.6	149.2	4.40	34.927			
1,300.0	1,297.2	1,277.2	1,273.8	2.6	2.6	116.62	-20.6	-148.8	170.3	165.5	4.82	35.362			
1,400.0	1,396.7	1,373.0	1,368.3	2.8	2.9	116.69	-24.5	-163.7	188.4	183.1	5.24	35.951			
1,500.0	1,496.3	1,469.8	1,463.6	3.0	3.2	116.55	-28.8	-180.1	207.6	202.0	5.67	36.622			
1,600.0	1,595.9	1,567.9	1,560.2	3.3	3.5	116.42	-33.2	-196.8	227.1	221.0	6.11	37.189			
1,700.0	1,695.4	1,666.0	1,656.7	3.5	3.8	116.30	-37.5	-213.6	246.6	240.0	6.55	37.668			
1,800.0	1,795.0	1,764.0	1,753.2	3.8	4.2	116.20	-41.9	-230.4	266.0	259.0	6.99	38.078			
1,900.0	1,894.5	1,862.1	1,849.8	4.0	4.5	116.11	-46.3	-247.1	285.5	278.0	7.43	38.431			
2,000.0	1,994.1	1,960.2	1,946.3	4.2	4.8	116.04	-50.7	-263.9	304.9	297.0	7.87	38.739			
2,100.0	2,093.7	2,058.3	2,042.9	4.5	5.2	115.97	-55.1	-280.7	324.4	316.1	8.32	39.010			
2,200.0	2,193.2	2,156.4	2,139.4	4.7	5.5	115.91	-59.5	-297.5	343.8	335.1	8.76	39.249			
2,300.0	2,292.8	2,254.5	2,236.0	4.9	5.9	115.86	-63.9	-314.2	363.3	354.1	9.21	39.462			
2,400.0	2,392.3	2,352.6	2,332.5	5.2	6.2	115.82	-68.2	-331.0	382.7	373.1	9.65	39.653			
2,500.0	2,491.9	2,450.7	2,429.1	5.4	6.5	115.77	-72.6	-347.8	402.2	392.1	10.10	39.825			
2,600.0	2,591.5	2,548.8	2,525.6	5.7	6.9	115.74	-77.0	-364.6	421.7	411.1	10.55	39.981			
2,700.0	2,691.0	2,646.8	2,622.1	5.9	7.2	115.70	-81.4	-381.3	441.1	430.1	10.99	40.123			
2,800.0	2,790.6	2,744.9	2,718.7	6.1	7.6	115.67	-85.8	-398.1	460.6	449.1	11.44	40.252			
2,900.0	2,890.1	2,843.0	2,815.2	6.4	7.9	115.64	-90.2	-414.9	480.0	468.1	11.89	40.371			
3,000.0	2,989.7	2,941.1	2,911.8	6.6	8.3	115.61	-94.5	-431.6	499.5	487.2	12.34	40.480			

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 3N-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 3N-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													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	-78.3	78.3						
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-78.3	78.3	78.0	0.30	259.248			
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-78.3	78.3	77.7	0.65	120.331			
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-78.3	78.3	77.3	1.00	78.331 CC			
400.0	400.0	399.0	399.0	0.7	0.7	101.94	0.0	-78.3	78.5	77.2	1.35	58.167 ES			
500.0	500.0	499.0	499.0	0.9	0.8	103.79	0.0	-78.3	79.1	77.4	1.70	46.453			
600.0	599.9	597.5	597.5	1.0	1.0	106.80	0.1	-79.2	81.1	79.0	2.06	39.376			
700.0	699.7	695.8	695.8	1.2	1.2	110.72	0.5	-81.6	85.6	83.2	2.42	35.326			
800.0	799.4	793.7	793.6	1.4	1.4	115.09	1.2	-85.8	93.0	90.2	2.80	33.247			
900.0	898.9	891.3	891.0	1.7	1.6	119.37	2.2	-91.5	103.2	100.0	3.17	32.527 SF			
1,000.0	998.5	988.5	987.9	1.9	1.8	122.76	3.4	-98.9	115.5	112.0	3.55	32.580			
1,100.0	1,098.1	1,085.3	1,084.3	2.1	2.0	125.30	4.8	-107.8	129.9	126.0	3.92	33.112			
1,200.0	1,197.6	1,182.8	1,181.2	2.4	2.2	127.19	6.6	-118.2	145.8	141.5	4.30	33.902			
1,300.0	1,297.2	1,281.4	1,279.2	2.6	2.4	128.69	8.3	-129.0	162.1	157.5	4.69	34.607			
1,400.0	1,396.7	1,379.9	1,377.1	2.8	2.7	129.92	10.1	-139.8	178.5	173.5	5.07	35.212			
1,500.0	1,496.3	1,478.5	1,475.1	3.0	2.9	130.94	11.9	-150.5	195.0	189.5	5.46	35.734			
1,600.0	1,595.9	1,577.1	1,573.1	3.3	3.1	131.81	13.6	-161.3	211.5	205.6	5.84	36.188			
1,700.0	1,695.4	1,675.7	1,671.1	3.5	3.4	132.55	15.4	-172.0	228.0	221.8	6.23	36.585			
1,800.0	1,795.0	1,774.3	1,769.1	3.8	3.6	133.19	17.2	-182.8	244.6	238.0	6.62	36.934			
1,900.0	1,894.5	1,872.9	1,867.0	4.0	3.9	133.74	18.9	-193.6	261.2	254.2	7.01	37.244			
2,000.0	1,994.1	1,971.4	1,965.0	4.2	4.1	134.23	20.7	-204.3	277.8	270.4	7.40	37.520			
2,100.0	2,093.7	2,070.0	2,063.0	4.5	4.4	134.67	22.5	-215.1	294.4	286.6	7.80	37.768			
2,200.0	2,193.2	2,168.6	2,161.0	4.7	4.6	135.06	24.2	-225.8	311.1	302.9	8.19	37.990			
2,300.0	2,292.8	2,267.2	2,259.0	4.9	4.9	135.41	26.0	-236.6	327.8	319.2	8.58	38.192			
2,400.0	2,392.3	2,365.8	2,356.9	5.2	5.1	135.72	27.8	-247.3	344.4	335.4	8.98	38.375			
2,500.0	2,491.9	2,464.4	2,454.9	5.4	5.4	136.01	29.5	-258.1	361.1	351.7	9.37	38.542			
2,600.0	2,591.5	2,562.9	2,552.9	5.7	5.7	136.27	31.3	-268.9	377.8	368.0	9.76	38.695			
2,700.0	2,691.0	2,661.5	2,650.9	5.9	5.9	136.51	33.1	-279.6	394.5	384.3	10.16	38.835			
2,800.0	2,790.6	2,760.1	2,748.8	6.1	6.2	136.73	34.8	-290.4	411.2	400.7	10.55	38.965			
2,900.0	2,890.1	2,858.7	2,846.8	6.4	6.4	136.93	36.6	-301.1	427.9	417.0	10.95	39.084			
3,000.0	2,989.7	2,957.3	2,944.8	6.6	6.7	137.12	38.4	-311.9	444.6	433.3	11.34	39.195			
3,100.0	3,089.2	3,055.9	3,042.8	6.8	6.9	137.29	40.1	-322.7	461.3	449.6	11.74	39.298			
3,200.0	3,188.8	3,154.4	3,140.8	7.1	7.2	137.46	41.9	-333.4	478.1	465.9	12.14	39.395			
3,300.0	3,288.4	3,253.0	3,238.7	7.3	7.4	137.61	43.7	-344.2	494.8	482.3	12.53	39.484			

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 3N-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 3N-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			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)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	-93.25	-3.7	-64.3	64.5						
100.0	100.0	100.0	100.0	0.2	0.2	-93.25	-3.7	-64.3	64.5	64.1	0.30	212.230			
200.0	200.0	200.0	200.0	0.3	0.3	-93.25	-3.7	-64.3	64.5	63.8	0.65	98.738			
300.0	300.0	300.0	300.0	0.5	0.5	-93.25	-3.7	-64.3	64.5	63.4	1.00	64.334 CC			
400.0	400.0	400.0	400.0	0.7	0.7	98.84	-3.7	-64.3	64.6	63.2	1.35	47.782 ES			
500.0	500.0	500.0	500.0	0.9	0.8	101.12	-3.7	-64.3	65.0	63.3	1.70	38.152			
600.0	599.9	599.9	599.9	1.0	1.0	104.82	-3.7	-64.3	66.0	64.0	2.06	31.987			
700.0	699.7	698.5	698.5	1.2	1.2	109.90	-3.3	-65.1	68.7	66.2	2.43	28.270			
800.0	799.4	796.9	796.8	1.4	1.4	115.95	-2.3	-67.5	74.3	71.5	2.80	26.518			
900.0	898.9	895.1	895.0	1.7	1.5	122.02	-0.7	-71.3	83.0	79.8	3.17	26.166			
1,000.0	998.5	994.3	994.1	1.9	1.7	127.01	1.1	-75.6	93.1	89.6	3.54	26.282			
1,100.0	1,098.1	1,093.5	1,093.2	2.1	1.9	131.00	3.0	-80.0	103.8	99.9	3.91	26.539			
1,200.0	1,197.6	1,192.7	1,192.2	2.4	2.1	134.24	4.8	-84.3	114.8	110.5	4.27	26.861			
1,300.0	1,297.2	1,291.9	1,291.3	2.6	2.3	136.91	6.7	-88.7	126.2	121.5	4.64	27.207			
1,400.0	1,396.7	1,391.1	1,390.4	2.8	2.5	139.13	8.5	-93.0	137.8	132.8	5.00	27.553			
1,500.0	1,496.3	1,490.3	1,489.5	3.0	2.7	141.01	10.3	-97.4	149.5	144.2	5.36	27.889			
1,600.0	1,595.9	1,589.5	1,588.6	3.3	2.9	142.61	12.2	-101.7	161.4	155.7	5.72	28.208			
1,700.0	1,695.4	1,688.7	1,687.7	3.5	3.0	143.99	14.0	-106.0	173.4	167.4	6.08	28.508			
1,800.0	1,795.0	1,787.9	1,786.7	3.8	3.2	145.19	15.9	-110.4	185.5	179.1	6.44	28.790			
1,900.0	1,894.5	1,887.1	1,885.8	4.0	3.4	146.25	17.7	-114.7	197.7	190.9	6.80	29.052			
2,000.0	1,994.1	1,986.3	1,984.9	4.2	3.6	147.18	19.6	-119.1	209.9	202.7	7.16	29.297			
2,100.0	2,093.7	2,085.5	2,084.0	4.5	3.8	148.01	21.4	-123.4	222.2	214.7	7.53	29.524			
2,200.0	2,193.2	2,184.7	2,183.1	4.7	4.0	148.76	23.2	-127.7	234.5	226.6	7.89	29.737			
2,300.0	2,292.8	2,283.9	2,282.2	4.9	4.2	149.42	25.1	-132.1	246.8	238.6	8.25	29.934			
2,400.0	2,392.3	2,383.1	2,381.2	5.2	4.4	150.03	26.9	-136.4	259.2	250.6	8.61	30.119			
2,500.0	2,491.9	2,482.3	2,480.3	5.4	4.6	150.58	28.8	-140.8	271.6	262.6	8.97	30.292			
2,600.0	2,591.5	2,581.5	2,579.4	5.7	4.8	151.08	30.6	-145.1	284.0	274.7	9.33	30.454			
2,700.0	2,691.0	2,680.6	2,678.5	5.9	4.9	151.54	32.4	-149.5	296.5	286.8	9.69	30.605			
2,800.0	2,790.6	2,779.8	2,777.6	6.1	5.1	151.96	34.3	-153.8	308.9	298.9	10.05	30.748			
2,900.0	2,890.1	2,879.0	2,876.7	6.4	5.3	152.35	36.1	-158.1	321.4	311.0	10.41	30.882			
3,000.0	2,989.7	2,978.2	2,975.7	6.6	5.5	152.72	38.0	-162.5	333.9	323.1	10.77	31.008			
3,100.0	3,089.2	3,077.4	3,074.8	6.8	5.7	153.05	39.8	-166.8	346.4	335.3	11.13	31.127			
3,200.0	3,188.8	3,176.6	3,173.9	7.1	5.9	153.36	41.6	-171.2	358.9	347.4	11.49	31.239			
3,300.0	3,288.4	3,275.8	3,273.0	7.3	6.1	153.65	43.5	-175.5	371.4	359.6	11.85	31.345			
3,400.0	3,387.9	3,375.0	3,372.1	7.6	6.3	153.92	45.3	-179.8	384.0	371.8	12.21	31.446			
3,500.0	3,487.5	3,474.2	3,471.2	7.8	6.5	154.18	47.2	-184.2	396.5	383.9	12.57	31.541			
3,600.0	3,587.0	3,573.4	3,570.3	8.0	6.7	154.42	49.0	-188.5	409.1	396.1	12.93	31.632			
3,700.0	3,686.6	3,672.6	3,669.3	8.3	6.9	154.64	50.9	-192.9	421.6	408.3	13.29	31.718			
3,800.0	3,786.2	3,771.8	3,768.4	8.5	7.0	154.85	52.7	-197.2	434.2	420.5	13.65	31.800			
3,900.0	3,885.7	3,871.0	3,867.5	8.8	7.2	155.05	54.5	-201.6	446.7	432.7	14.01	31.878			
4,000.0	3,985.3	3,970.2	3,966.6	9.0	7.4	155.24	56.4	-205.9	459.3	444.9	14.37	31.952			
4,100.0	4,084.8	4,069.4	4,065.7	9.2	7.6	155.42	58.2	-210.2	471.9	457.1	14.74	32.023			
4,200.0	4,184.4	4,168.6	4,164.8	9.5	7.8	155.59	60.1	-214.6	484.5	469.4	15.10	32.091			
4,300.0	4,284.0	4,267.8	4,263.8	9.7	8.0	155.75	61.9	-218.9	497.0	481.6	15.46	32.156			
7,400.0	7,284.4	7,531.6	7,349.7	14.1	15.1	-95.06	-286.1	-354.2	483.6	455.6	27.95	17.304 SF			
7,498.0	7,330.8	7,462.0	7,324.2	13.7	14.6	-89.14	-221.4	-353.0	478.1	450.9	27.23	17.558			
7,500.0	7,331.6	7,460.6	7,323.6	13.7	14.6	-89.01	-220.1	-353.0	478.1	450.9	27.22	17.568			
7,600.0	7,362.8	7,394.6	7,292.2	13.6	14.2	-82.68	-162.1	-351.6	483.4	456.9	26.55	18.207			
7,700.0	7,377.1	7,331.8	7,256.3	13.6	13.9	-76.28	-110.7	-350.1	497.2	471.3	25.95	19.157			

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 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3F-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+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	-90.01	0.0	-58.8	58.8					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-58.8	58.8	58.4	0.30	193.464		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-58.8	58.8	58.1	0.65	90.007		
300.0	300.0	300.0	300.0	0.5	0.5	-90.01	0.0	-58.8	58.8	57.8	1.00	58.646 CC		
400.0	400.0	400.0	400.0	0.7	0.7	102.15	0.0	-58.8	58.9	57.6	1.35	43.602 ES		
500.0	500.0	500.0	500.0	0.9	0.8	104.60	0.0	-58.8	59.5	57.8	1.70	34.930		
600.0	599.9	599.9	599.9	1.0	1.0	108.57	0.0	-58.8	60.8	58.7	2.06	29.461		
700.0	699.7	699.7	699.7	1.2	1.2	113.81	0.0	-58.8	63.0	60.6	2.43	25.935		
800.0	799.4	799.4	799.4	1.4	1.4	119.96	0.0	-58.8	66.6	63.8	2.80	23.765		
900.0	898.9	898.9	898.9	1.7	1.5	126.35	0.0	-58.8	71.6	68.5	3.17	22.593		
1,000.0	998.5	998.5	998.5	1.9	1.7	131.92	0.0	-58.8	77.6	74.0	3.54	21.940		
1,100.0	1,098.1	1,098.1	1,098.1	2.1	1.9	136.66	0.0	-58.8	84.1	80.2	3.90	21.598		
1,200.0	1,197.6	1,197.6	1,197.6	2.4	2.1	140.70	0.0	-58.8	91.2	87.0	4.25	21.452		
1,300.0	1,297.2	1,297.2	1,297.2	2.6	2.2	144.15	0.0	-58.8	98.6	94.0	4.60	21.428		
1,400.0	1,396.7	1,396.7	1,396.7	2.8	2.4	147.10	0.0	-58.8	106.4	101.4	4.95	21.479		
1,500.0	1,496.3	1,496.3	1,496.3	3.0	2.6	149.65	0.0	-58.8	114.4	109.1	5.30	21.576		
1,600.0	1,595.9	1,595.9	1,595.9	3.3	2.8	151.86	0.0	-58.8	122.6	116.9	5.65	21.700		
1,700.0	1,695.4	1,695.4	1,695.4	3.5	2.9	153.80	0.0	-58.8	130.9	124.9	5.99	21.840		
1,800.0	1,795.0	1,795.0	1,795.0	3.8	3.1	155.50	0.0	-58.8	139.4	133.1	6.34	21.987		
1,900.0	1,894.5	1,894.5	1,894.5	4.0	3.3	157.00	0.0	-58.8	148.0	141.3	6.69	22.135		
2,000.0	1,994.1	1,994.1	1,994.1	4.2	3.5	158.34	0.0	-58.8	156.7	149.6	7.03	22.283		
2,100.0	2,093.7	2,093.7	2,093.7	4.5	3.6	159.54	0.0	-58.8	165.4	158.1	7.38	22.427		
2,200.0	2,193.2	2,193.2	2,193.2	4.7	3.8	160.61	0.0	-58.8	174.2	166.5	7.72	22.567		
2,300.0	2,292.8	2,292.8	2,292.8	4.9	4.0	161.59	0.0	-58.8	183.1	175.1	8.07	22.702		
2,400.0	2,392.3	2,392.3	2,392.3	5.2	4.2	162.47	0.0	-58.8	192.0	183.6	8.41	22.831		
2,500.0	2,491.9	2,491.9	2,491.9	5.4	4.3	163.27	0.0	-58.8	201.0	192.2	8.76	22.955		
2,600.0	2,591.5	2,591.5	2,591.5	5.7	4.5	164.01	0.0	-58.8	210.0	200.9	9.10	23.073		
2,700.0	2,691.0	2,691.0	2,691.0	5.9	4.7	164.69	0.0	-58.8	219.0	209.6	9.45	23.185		
2,800.0	2,790.6	2,790.6	2,790.6	6.1	4.8	165.31	0.0	-58.8	228.1	218.3	9.79	23.292		
2,900.0	2,890.1	2,890.1	2,890.1	6.4	5.0	165.88	0.0	-58.8	237.2	227.0	10.14	23.394		
3,000.0	2,989.7	2,989.7	2,989.7	6.6	5.2	166.41	0.0	-58.8	246.3	235.8	10.48	23.491		
3,100.0	3,089.2	3,089.2	3,089.2	6.8	5.4	166.91	0.0	-58.8	255.4	244.6	10.83	23.584		
3,200.0	3,188.8	3,188.8	3,188.8	7.1	5.5	167.37	0.0	-58.8	264.5	253.4	11.18	23.672		
3,300.0	3,288.4	3,288.4	3,288.4	7.3	5.7	167.80	0.0	-58.8	273.7	262.2	11.52	23.756		
3,400.0	3,387.9	3,387.9	3,387.9	7.6	5.9	168.20	0.0	-58.8	282.9	271.0	11.87	23.836		
3,500.0	3,487.5	3,487.5	3,487.5	7.8	6.1	168.57	0.0	-58.8	292.0	279.8	12.21	23.913		
3,600.0	3,587.0	3,587.0	3,587.0	8.0	6.2	168.93	0.0	-58.8	301.2	288.7	12.56	23.986		
3,700.0	3,686.6	3,686.6	3,686.6	8.3	6.4	169.26	0.0	-58.8	310.5	297.5	12.91	24.056		
3,800.0	3,786.2	3,786.2	3,786.2	8.5	6.6	169.57	0.0	-58.8	319.7	306.4	13.25	24.122		
3,900.0	3,885.7	3,885.7	3,885.7	8.8	6.8	169.87	0.0	-58.8	328.9	315.3	13.60	24.186		
4,000.0	3,985.3	3,985.3	3,985.3	9.0	6.9	170.15	0.0	-58.8	338.1	324.2	13.94	24.248		
4,100.0	4,084.8	4,081.1	4,081.1	9.2	7.1	170.46	0.5	-58.6	347.8	333.5	14.28	24.351		
4,200.0	4,184.4	4,175.9	4,175.9	9.5	7.3	170.92	2.5	-57.9	358.8	344.2	14.62	24.543		
4,300.0	4,284.0	4,273.8	4,273.7	9.7	7.4	171.48	5.8	-56.8	370.8	355.8	14.96	24.784		
4,400.0	4,383.5	4,373.0	4,372.9	9.9	7.6	172.02	9.1	-55.6	382.8	367.5	15.30	25.017		
4,500.0	4,483.1	4,472.2	4,472.0	10.2	7.8	172.52	12.4	-54.5	394.9	379.2	15.64	25.240		
4,600.0	4,582.6	4,571.4	4,571.2	10.4	8.0	173.00	15.7	-53.4	406.9	391.0	15.99	25.454		
4,700.0	4,682.2	4,670.7	4,670.3	10.7	8.1	173.45	19.0	-52.2	419.1	402.7	16.33	25.661		
4,800.0	4,781.8	4,769.9	4,769.5	10.9	8.3	173.87	22.4	-51.1	431.2	414.5	16.68	25.859		
4,900.0	4,881.3	4,869.1	4,868.6	11.1	8.5	174.27	25.7	-50.0	443.4	426.4	17.02	26.050		
5,000.0	4,980.9	4,968.3	4,967.8	11.4	8.7	174.65	29.0	-48.8	455.6	438.2	17.36	26.235		
5,100.0	5,080.4	5,067.5	5,066.9	11.6	8.8	175.00	32.3	-47.7	467.8	450.1	17.71	26.412		

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 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3F-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,180.0	5,166.7	5,166.1	11.9	9.0	175.35	35.6	-46.6	480.0	461.9	18.06	26.584		
5,300.0	5,279.6	5,265.9	5,265.2	12.1	9.2	175.67	39.0	-45.4	492.2	473.8	18.40	26.749		
7,200.0	7,148.2	7,863.3	7,601.5	14.9	15.6	-149.18	-403.7	-14.1	476.5	450.9	25.66	18.568		
7,300.0	7,222.6	7,704.8	7,560.4	14.5	14.3	-136.88	-251.1	-15.9	391.7	366.4	25.32	15.473		
7,400.0	7,284.4	7,612.4	7,517.6	14.1	13.7	-129.21	-169.3	-17.2	308.8	283.9	24.89	12.408		
7,500.0	7,331.6	7,539.7	7,475.1	13.7	13.3	-121.03	-110.5	-18.2	233.4	208.4	24.93	9.360		
7,600.0	7,362.8	7,475.5	7,431.5	13.6	13.1	-109.55	-63.4	-19.1	174.0	148.4	25.63	6.789		
7,700.0	7,377.1	7,415.6	7,386.4	13.6	13.0	-93.46	-24.1	-20.0	146.4	120.0	26.34	5.558		
7,713.0	7,377.8	7,408.1	7,380.5	13.6	12.9	-91.06	-19.5	-20.1	146.0	119.6	26.37	5.535 SF		
7,800.0	7,378.0	7,361.2	7,342.1	13.9	12.8	-76.23	7.4	-20.8	162.5	136.5	25.98	6.255		
7,900.0	7,378.0	7,318.8	7,305.5	14.3	12.8	-63.80	28.9	-21.4	214.8	189.7	25.11	8.555		
8,000.0	7,378.0	7,285.5	7,275.8	15.0	12.7	-55.32	43.9	-21.9	286.8	262.4	24.41	11.753		
8,100.0	7,378.0	7,250.0	7,243.2	15.8	12.7	-47.71	57.9	-22.4	368.8	345.1	23.66	15.583		
8,200.0	7,378.0	7,237.1	7,231.1	16.8	12.7	-45.30	62.5	-22.6	455.6	431.8	23.88	19.081		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3G-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-93.92	-3.6	-53.2	53.3					
100.0	100.0	100.0	100.0	0.2	0.2	-93.92	-3.6	-53.2	53.3	53.0	0.30	175.450		
200.0	200.0	200.0	200.0	0.3	0.3	-93.92	-3.6	-53.2	53.3	52.6	0.65	81.627		
300.0	300.0	300.0	300.0	0.5	0.5	-93.92	-3.6	-53.2	53.3	52.3	1.00	53.185		
400.0	400.0	400.0	400.0	0.7	0.7	98.33	-3.6	-53.2	53.4	52.0	1.35	39.511		
500.0	500.0	500.0	500.0	0.9	0.8	101.08	-3.6	-53.2	53.8	52.1	1.70	31.587		
600.0	599.9	600.8	600.8	1.0	1.0	105.71	-3.6	-52.3	54.0	51.9	2.07	26.135		
700.0	699.7	701.5	701.5	1.2	1.2	112.43	-3.5	-49.6	53.4	50.9	2.43	21.936		
796.6	796.0	798.5	798.4	1.4	1.4	121.16	-3.3	-45.4	52.8	50.0	2.79	18.908 CC		
800.0	799.4	801.9	801.7	1.4	1.4	121.50	-3.3	-45.3	52.8	50.0	2.81	18.825 ES		
900.0	898.9	901.4	901.1	1.7	1.6	131.86	-3.0	-40.4	54.1	50.9	3.17	17.051		
1,000.0	998.5	1,000.9	1,000.5	1.9	1.8	141.54	-2.8	-35.6	57.1	53.6	3.53	16.184		
1,100.0	1,098.1	1,100.4	1,099.9	2.1	1.9	150.03	-2.6	-30.8	61.6	57.7	3.88	15.874		
1,200.0	1,197.6	1,199.9	1,199.3	2.4	2.1	157.25	-2.3	-26.0	67.2	63.0	4.23	15.897		
1,300.0	1,297.2	1,299.4	1,298.7	2.6	2.3	163.28	-2.1	-21.2	73.8	69.2	4.58	16.106		
1,400.0	1,396.7	1,398.9	1,398.1	2.8	2.5	168.28	-1.9	-16.4	81.0	76.1	4.93	16.414		
1,500.0	1,496.3	1,498.4	1,497.5	3.0	2.7	172.44	-1.6	-11.5	88.7	83.4	5.29	16.766		
1,600.0	1,595.9	1,598.0	1,596.9	3.3	2.9	175.92	-1.4	-6.7	96.9	91.2	5.65	17.133		
1,700.0	1,695.4	1,697.5	1,696.3	3.5	3.1	178.85	-1.2	-1.9	105.3	99.3	6.02	17.497		
1,800.0	1,795.0	1,797.0	1,795.7	3.8	3.3	-178.65	-0.9	2.9	114.0	107.6	6.38	17.849		
1,900.0	1,894.5	1,896.5	1,895.1	4.0	3.5	-176.51	-0.7	7.7	122.8	116.1	6.75	18.184		
2,000.0	1,994.1	1,996.0	1,994.5	4.2	3.7	-174.66	-0.5	12.5	131.8	124.7	7.12	18.501		
2,100.0	2,093.7	2,095.5	2,093.8	4.5	3.9	-173.05	-0.2	17.4	140.9	133.4	7.50	18.798		
2,200.0	2,193.2	2,195.0	2,193.2	4.7	4.0	-171.63	0.0	22.2	150.1	142.3	7.87	19.077		
2,300.0	2,292.8	2,294.5	2,292.6	4.9	4.2	-170.38	0.2	27.0	159.4	151.2	8.24	19.337		
2,400.0	2,392.3	2,394.0	2,392.0	5.2	4.4	-169.27	0.5	31.8	168.8	160.2	8.62	19.581		
2,500.0	2,491.9	2,493.5	2,491.4	5.4	4.6	-168.27	0.7	36.6	178.2	169.2	9.00	19.809		
2,600.0	2,591.5	2,593.1	2,590.8	5.7	4.8	-167.38	0.9	41.5	187.7	178.3	9.37	20.023		
2,700.0	2,691.0	2,692.6	2,690.2	5.9	5.0	-166.57	1.2	46.3	197.2	187.4	9.75	20.223		
2,800.0	2,790.6	2,792.1	2,789.6	6.1	5.2	-165.83	1.4	51.1	206.7	196.6	10.13	20.411		
2,900.0	2,890.1	2,891.6	2,889.0	6.4	5.4	-165.16	1.6	55.9	216.3	205.8	10.51	20.587		
3,000.0	2,989.7	2,991.1	2,988.4	6.6	5.6	-164.55	1.9	60.7	225.9	215.0	10.88	20.753		
3,100.0	3,089.2	3,090.6	3,087.8	6.8	5.8	-163.98	2.1	65.5	235.5	224.3	11.26	20.910		
3,200.0	3,188.8	3,190.1	3,187.2	7.1	6.0	-163.47	2.3	70.4	245.2	233.5	11.64	21.057		
3,300.0	3,288.4	3,289.6	3,286.6	7.3	6.2	-162.99	2.6	75.2	254.8	242.8	12.02	21.197		
3,400.0	3,387.9	3,389.1	3,386.0	7.6	6.4	-162.54	2.8	80.0	264.5	252.1	12.40	21.329		
3,500.0	3,487.5	3,488.6	3,485.4	7.8	6.5	-162.13	3.0	84.8	274.2	261.4	12.78	21.453		
3,600.0	3,587.0	3,588.2	3,584.7	8.0	6.7	-161.74	3.3	89.6	283.9	270.7	13.16	21.572		
3,700.0	3,686.6	3,687.7	3,684.1	8.3	6.9	-161.38	3.5	94.5	293.6	280.1	13.54	21.684		
3,800.0	3,786.2	3,787.2	3,783.5	8.5	7.1	-161.05	3.7	99.3	303.4	289.4	13.92	21.791		
3,900.0	3,885.7	3,886.7	3,882.9	8.8	7.3	-160.73	4.0	104.1	313.1	298.8	14.30	21.892		
4,000.0	3,985.3	3,986.2	3,982.3	9.0	7.5	-160.43	4.2	108.9	322.8	308.2	14.68	21.989		
4,100.0	4,084.8	4,085.7	4,081.7	9.2	7.7	-160.15	4.4	113.7	332.6	317.5	15.06	22.081		
4,200.0	4,184.4	4,185.2	4,181.1	9.5	7.9	-159.89	4.7	118.5	342.4	326.9	15.44	22.170		
4,300.0	4,284.0	4,284.7	4,280.5	9.7	8.1	-159.64	4.9	123.4	352.1	336.3	15.82	22.254		
4,400.0	4,383.5	4,384.2	4,379.9	9.9	8.3	-159.41	5.1	128.2	361.9	345.7	16.20	22.334		
4,500.0	4,483.1	4,483.8	4,479.3	10.2	8.5	-159.18	5.3	133.0	371.7	355.1	16.59	22.411		
4,600.0	4,582.6	4,583.3	4,578.7	10.4	8.7	-158.97	5.6	137.8	381.5	364.5	16.97	22.485		
4,700.0	4,682.2	4,682.8	4,678.1	10.7	8.9	-158.77	5.8	142.6	391.3	373.9	17.35	22.556		
4,800.0	4,781.8	4,782.3	4,777.5	10.9	9.0	-158.58	6.0	147.4	401.1	383.3	17.73	22.624		
4,900.0	4,881.3	4,881.8	4,876.9	11.1	9.2	-158.40	6.3	152.3	410.9	392.8	18.11	22.689		
5,000.0	4,980.9	4,981.3	4,976.3	11.4	9.4	-158.22	6.5	157.1	420.7	402.2	18.49	22.752		

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 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3G-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,080.4	5,080.8	5,075.6	11.6	9.6	-158.06	6.7	161.9	430.5	411.6	18.87	22.812		
5,200.0	5,180.0	5,180.3	5,175.0	11.9	9.8	-157.90	7.0	166.7	440.3	421.1	19.25	22.870		
5,300.0	5,279.6	5,279.8	5,274.4	12.1	10.0	-157.75	7.2	171.5	450.1	430.5	19.63	22.926		
5,400.0	5,379.1	5,379.3	5,373.8	12.3	10.2	-157.61	7.4	176.4	459.9	439.9	20.01	22.980		
5,500.0	5,478.7	5,478.9	5,473.2	12.6	10.4	-157.47	7.7	181.2	469.8	449.4	20.40	23.032		
5,600.0	5,578.2	5,578.4	5,572.6	12.8	10.6	-157.33	7.9	186.0	479.6	458.8	20.78	23.082		
5,700.0	5,677.8	5,677.9	5,672.0	13.1	10.8	-157.21	8.1	190.8	489.4	468.2	21.16	23.130		
5,800.0	5,777.4	5,777.4	5,771.4	13.3	11.0	-157.08	8.4	195.6	499.2	477.7	21.54	23.177		
7,000.0	6,970.5	7,665.1	7,376.0	15.6	17.3	116.23	-514.4	273.4	435.5	407.1	28.34	15.366		
7,100.0	7,063.3	7,599.6	7,366.8	15.3	16.6	116.90	-449.6	273.0	345.6	317.9	27.64	12.501		
7,200.0	7,148.2	7,542.6	7,352.9	14.9	16.0	114.44	-394.4	272.3	262.4	235.1	27.24	9.631		
7,300.0	7,222.6	7,488.6	7,334.7	14.5	15.6	107.41	-343.5	271.4	192.4	165.0	27.34	7.036		
7,400.0	7,284.4	7,435.9	7,312.4	14.1	15.2	94.85	-295.8	270.3	150.0	122.3	27.69	5.416		
7,442.9	7,306.5	7,413.5	7,301.6	13.9	15.0	87.79	-276.2	269.8	145.3	117.7	27.67	5.252 SF		
7,500.0	7,331.6	7,384.0	7,286.3	13.7	14.8	77.35	-251.0	269.1	153.0	125.9	27.15	5.637		
7,600.0	7,362.8	7,332.5	7,256.4	13.6	14.5	58.88	-209.1	267.6	193.7	168.9	24.82	7.804		
7,700.0	7,377.1	7,281.4	7,223.2	13.6	14.2	43.87	-170.3	266.0	249.6	227.7	21.94	11.377		
7,800.0	7,378.0	7,232.4	7,188.2	13.9	14.0	36.11	-136.0	264.3	310.8	290.2	20.55	15.119		
7,900.0	7,378.0	7,200.0	7,163.6	14.3	13.9	32.62	-115.1	263.1	380.3	360.1	20.17	18.852		
8,000.0	7,378.0	7,150.0	7,123.3	15.0	13.7	27.97	-85.5	261.2	455.8	436.2	19.61	23.251		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													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	-47.6	47.6						
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-47.6	47.6	47.3	0.30	156.613			
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-47.6	47.6	46.9	0.65	72.863			
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-47.6	47.6	46.6	1.00	47.475			
400.0	400.0	400.4	400.4	0.7	0.7	102.38	0.0	-47.3	47.5	46.2	1.35	35.142			
500.0	500.0	501.2	501.2	0.9	0.9	105.78	0.2	-45.6	46.4	44.7	1.71	27.196			
600.0	599.9	601.8	601.7	1.0	1.0	111.97	0.4	-42.0	44.4	42.3	2.07	21.474			
700.0	699.7	702.3	702.0	1.2	1.2	121.63	0.8	-36.8	42.2	39.7	2.43	17.325			
800.0	799.4	802.4	801.9	1.4	1.4	135.19	1.4	-29.8	41.0	38.2	2.81	14.620			
801.1	800.5	803.5	803.0	1.4	1.4	135.36	1.4	-29.7	41.0	38.2	2.81	14.598 CC, ES			
900.0	898.9	902.2	901.3	1.7	1.6	151.49	2.1	-21.1	42.4	39.2	3.19	13.311			
1,000.0	998.5	1,001.5	1,000.1	1.9	1.9	167.52	2.9	-10.8	46.5	42.9	3.58	12.967 SF			
1,100.0	1,098.1	1,100.6	1,098.7	2.1	2.1	-179.48	3.7	-0.2	53.5	49.5	4.00	13.377			
1,200.0	1,197.6	1,199.8	1,197.2	2.4	2.3	-169.82	4.5	10.3	62.5	58.1	4.42	14.151			
1,300.0	1,297.2	1,298.9	1,295.8	2.6	2.6	-162.74	5.3	20.9	72.9	68.1	4.85	15.046			
1,400.0	1,396.7	1,398.0	1,394.3	2.8	2.8	-157.47	6.1	31.4	84.1	78.9	5.28	15.946			
1,500.0	1,496.3	1,497.1	1,492.9	3.0	3.1	-153.46	7.0	42.0	95.9	90.2	5.71	16.802			
1,600.0	1,595.9	1,596.2	1,591.4	3.3	3.3	-150.34	7.8	52.5	108.0	101.9	6.14	17.596			
1,700.0	1,695.4	1,695.3	1,689.9	3.5	3.6	-147.85	8.6	63.1	120.4	113.8	6.57	18.323			
1,800.0	1,795.0	1,794.4	1,788.5	3.8	3.8	-145.83	9.4	73.7	132.9	125.9	7.00	18.987			
1,900.0	1,894.5	1,893.5	1,887.0	4.0	4.1	-144.15	10.2	84.2	145.6	138.2	7.43	19.591			
2,000.0	1,994.1	1,992.6	1,985.6	4.2	4.3	-142.75	11.0	94.8	158.4	150.5	7.86	20.142			
2,100.0	2,093.7	2,091.7	2,084.1	4.5	4.6	-141.55	11.9	105.3	171.3	163.0	8.30	20.646			
2,200.0	2,193.2	2,190.9	2,182.7	4.7	4.8	-140.53	12.7	115.9	184.2	175.5	8.73	21.106			
2,300.0	2,292.8	2,290.0	2,281.2	4.9	5.1	-139.63	13.5	126.4	197.2	188.0	9.16	21.529			
2,400.0	2,392.3	2,389.1	2,379.7	5.2	5.3	-138.85	14.3	137.0	210.2	200.6	9.59	21.917			
2,500.0	2,491.9	2,488.2	2,478.3	5.4	5.6	-138.16	15.1	147.5	223.3	213.2	10.02	22.276			
2,600.0	2,591.5	2,587.3	2,576.8	5.7	5.8	-137.55	16.0	158.1	236.4	225.9	10.45	22.607			
2,700.0	2,691.0	2,686.4	2,675.4	5.9	6.1	-137.00	16.8	168.7	249.5	238.6	10.89	22.915			
2,800.0	2,790.6	2,785.5	2,773.9	6.1	6.3	-136.50	17.6	179.2	262.6	251.3	11.32	23.200			
2,900.0	2,890.1	2,884.6	2,872.5	6.4	6.6	-136.05	18.4	189.8	275.7	264.0	11.75	23.466			
3,000.0	2,989.7	2,983.7	2,971.0	6.6	6.8	-135.65	19.2	200.3	288.9	276.7	12.18	23.714			
3,100.0	3,089.2	3,082.8	3,069.5	6.8	7.1	-135.28	20.1	210.9	302.1	289.5	12.61	23.946			
3,200.0	3,188.8	3,182.0	3,168.1	7.1	7.3	-134.94	20.9	221.4	315.3	302.2	13.05	24.164			
3,300.0	3,288.4	3,281.1	3,266.6	7.3	7.6	-134.62	21.7	232.0	328.5	315.0	13.48	24.368			
3,400.0	3,387.9	3,380.2	3,365.2	7.6	7.8	-134.33	22.5	242.6	341.7	327.8	13.91	24.561			
3,500.0	3,487.5	3,479.3	3,463.7	7.8	8.1	-134.07	23.3	253.1	354.9	340.5	14.34	24.742			
3,600.0	3,587.0	3,578.4	3,562.3	8.0	8.3	-133.82	24.2	263.7	368.1	353.3	14.78	24.913			
3,700.0	3,686.6	3,677.5	3,660.8	8.3	8.6	-133.59	25.0	274.2	381.3	366.1	15.21	25.074			
3,800.0	3,786.2	3,776.6	3,759.3	8.5	8.9	-133.37	25.8	284.8	394.6	378.9	15.64	25.227			
3,900.0	3,885.7	3,875.7	3,857.9	8.8	9.1	-133.17	26.6	295.3	407.8	391.7	16.07	25.372			
4,000.0	3,985.3	3,974.8	3,956.4	9.0	9.4	-132.98	27.4	305.9	421.1	404.5	16.51	25.510			
4,100.0	4,084.8	4,073.9	4,055.0	9.2	9.6	-132.80	28.3	316.4	434.3	417.4	16.94	25.641			
4,200.0	4,184.4	4,173.1	4,153.5	9.5	9.9	-132.64	29.1	327.0	447.6	430.2	17.37	25.766			
4,300.0	4,284.0	4,272.2	4,252.1	9.7	10.1	-132.48	29.9	337.6	460.8	443.0	17.80	25.884			
4,400.0	4,383.5	4,371.3	4,350.6	9.9	10.4	-132.33	30.7	348.1	474.1	455.8	18.24	25.998			
4,500.0	4,483.1	4,470.4	4,449.1	10.2	10.6	-132.19	31.5	358.7	487.3	468.7	18.67	26.106			

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 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3I-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-96.20	-3.6	-33.6	33.8					
100.0	100.0	100.0	100.0	0.2	0.2	-96.20	-3.6	-33.6	33.8	33.5	0.30	111.201		
200.0	200.0	200.0	200.0	0.3	0.3	-96.20	-3.6	-33.6	33.8	33.1	0.65	51.735 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	-96.58	-4.0	-34.4	34.6	33.6	1.00	34.573		
400.0	400.0	398.8	398.8	0.7	0.7	95.03	-4.9	-36.8	37.2	35.8	1.35	27.554		
500.0	500.0	498.0	497.9	0.9	0.9	96.99	-6.5	-40.8	41.6	39.9	1.70	24.447		
600.0	599.9	597.1	596.7	1.0	1.1	99.93	-8.7	-46.4	48.0	46.0	2.06	23.259		
700.0	699.7	695.8	695.2	1.2	1.3	103.20	-11.5	-53.5	56.5	54.0	2.44	23.150 SF		
800.0	799.4	794.2	793.2	1.4	1.5	106.35	-14.9	-62.2	67.1	64.3	2.83	23.686		
900.0	898.9	892.3	890.6	1.7	1.7	109.03	-19.0	-72.4	79.8	76.6	3.24	24.622		
1,000.0	998.5	989.9	987.4	1.9	2.0	110.53	-23.6	-84.2	94.1	90.5	3.66	25.716		
1,100.0	1,098.1	1,087.2	1,083.6	2.1	2.3	111.17	-28.8	-97.3	109.9	105.8	4.09	26.887		
1,200.0	1,197.6	1,184.0	1,179.2	2.4	2.6	111.25	-34.6	-112.0	127.2	122.6	4.52	28.103		
1,300.0	1,297.2	1,280.3	1,273.9	2.6	3.0	110.97	-40.9	-128.0	145.8	140.8	4.97	29.352		
1,400.0	1,396.7	1,376.0	1,367.8	2.8	3.3	110.45	-47.7	-145.5	165.8	160.4	5.42	30.627		
1,500.0	1,496.3	1,471.2	1,460.8	3.0	3.7	109.80	-55.1	-164.2	187.3	181.4	5.87	31.927		
1,600.0	1,595.9	1,565.6	1,552.7	3.3	4.1	109.06	-63.0	-184.3	210.2	203.9	6.32	33.251		
1,700.0	1,695.4	1,660.3	1,644.5	3.5	4.5	108.27	-71.5	-205.7	234.4	227.7	6.78	34.596		
1,800.0	1,795.0	1,757.1	1,738.4	3.8	5.0	107.57	-80.3	-228.1	259.1	251.9	7.24	35.803		
1,900.0	1,894.5	1,854.0	1,832.2	4.0	5.4	106.99	-89.1	-250.4	283.8	276.1	7.70	36.867		
2,000.0	1,994.1	1,950.8	1,926.0	4.2	5.9	106.50	-97.9	-272.7	308.6	300.4	8.16	37.813		
2,100.0	2,093.7	2,047.7	2,019.9	4.5	6.3	106.09	-106.7	-295.1	333.3	324.7	8.62	38.658		
2,200.0	2,193.2	2,144.6	2,113.7	4.7	6.8	105.73	-115.5	-317.4	358.1	349.0	9.08	39.418		
2,300.0	2,292.8	2,241.4	2,207.5	4.9	7.2	105.42	-124.3	-339.8	382.9	373.3	9.55	40.105		
2,400.0	2,392.3	2,338.3	2,301.4	5.2	7.7	105.15	-133.1	-362.1	407.7	397.7	10.01	40.728		
2,500.0	2,491.9	2,435.2	2,395.2	5.4	8.1	104.91	-142.0	-384.5	432.5	422.0	10.47	41.297		
2,600.0	2,591.5	2,532.0	2,489.0	5.7	8.6	104.69	-150.8	-406.8	457.3	446.3	10.93	41.817		
2,700.0	2,691.0	2,628.9	2,582.9	5.9	9.0	104.50	-159.6	-429.2	482.1	470.7	11.40	42.296		

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 3N-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 3N-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	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			
233.4	233.4	233.4	233.4	0.4	0.4	-90.00	0.0	-28.0	28.0	27.2	0.77	36.367 CC			
300.0	300.0	299.8	299.8	0.5	0.5	-90.20	-0.1	-28.2	28.2	27.2	1.00	28.130 ES			
400.0	400.0	399.3	399.3	0.7	0.7	101.26	-0.9	-29.7	29.9	28.5	1.35	22.130			
500.0	500.0	498.8	498.7	0.9	0.9	102.93	-2.4	-32.8	33.5	31.8	1.70	19.664			
600.0	599.9	598.0	597.8	1.0	1.0	105.45	-4.8	-37.4	39.1	37.0	2.07	18.917 SF			
700.0	699.7	697.1	696.7	1.2	1.2	108.20	-7.9	-43.5	46.7	44.3	2.44	19.121			
800.0	799.4	795.9	795.1	1.4	1.5	110.76	-11.7	-51.2	56.4	53.6	2.84	19.878			
900.0	898.9	894.3	893.0	1.7	1.7	112.80	-16.3	-60.3	68.1	64.9	3.25	20.951			
1,000.0	998.5	992.5	990.4	1.9	2.0	113.57	-21.7	-70.8	81.2	77.5	3.68	22.096			
1,100.0	1,098.1	1,090.3	1,087.3	2.1	2.2	113.48	-27.8	-82.9	95.6	91.5	4.11	23.264			
1,200.0	1,197.6	1,187.6	1,183.5	2.4	2.5	112.86	-34.6	-96.3	111.3	106.8	4.55	24.447			
1,300.0	1,297.2	1,284.6	1,279.0	2.6	2.9	111.94	-42.1	-111.1	128.4	123.4	5.01	25.646			
1,400.0	1,396.7	1,381.0	1,373.7	2.8	3.2	110.84	-50.2	-127.3	146.8	141.3	5.46	26.867			
1,500.0	1,496.3	1,477.3	1,467.9	3.0	3.6	109.66	-59.1	-144.8	166.5	160.6	5.92	28.115			
1,600.0	1,595.9	1,575.2	1,563.7	3.3	3.9	108.62	-68.4	-163.1	186.7	180.4	6.39	29.240			
1,700.0	1,695.4	1,673.1	1,659.4	3.5	4.3	107.78	-77.6	-181.3	207.0	200.2	6.85	30.218			
1,800.0	1,795.0	1,770.9	1,755.1	3.8	4.7	107.09	-86.8	-199.6	227.3	220.0	7.32	31.075			
1,900.0	1,894.5	1,868.8	1,850.8	4.0	5.1	106.52	-96.1	-217.9	247.7	239.9	7.78	31.831			
2,000.0	1,994.1	1,966.7	1,946.5	4.2	5.5	106.03	-105.3	-236.1	268.0	259.8	8.25	32.504			
2,100.0	2,093.7	2,064.6	2,042.2	4.5	5.9	105.61	-114.6	-254.4	288.4	279.7	8.71	33.105			
2,200.0	2,193.2	2,162.5	2,138.0	4.7	6.3	105.25	-123.8	-272.7	308.8	299.6	9.18	33.646			
2,300.0	2,292.8	2,260.4	2,233.7	4.9	6.7	104.93	-133.1	-290.9	329.2	319.6	9.64	34.135			
2,400.0	2,392.3	2,358.2	2,329.4	5.2	7.1	104.65	-142.3	-309.2	349.6	339.5	10.11	34.579			
2,500.0	2,491.9	2,456.1	2,425.1	5.4	7.5	104.40	-151.6	-327.5	370.0	359.5	10.58	34.984			
2,600.0	2,591.5	2,554.0	2,520.8	5.7	7.9	104.17	-160.8	-345.7	390.4	379.4	11.04	35.355			
2,700.0	2,691.0	2,651.9	2,616.5	5.9	8.2	103.97	-170.0	-364.0	410.9	399.4	11.51	35.696			
2,800.0	2,790.6	2,749.8	2,712.3	6.1	8.6	103.79	-179.3	-382.3	431.3	419.3	11.98	36.011			
2,900.0	2,890.1	2,847.6	2,808.0	6.4	9.0	103.62	-188.5	-400.6	451.7	439.3	12.44	36.302			
3,000.0	2,989.7	2,945.5	2,903.7	6.6	9.4	103.47	-197.8	-418.8	472.2	459.3	12.91	36.571			
3,100.0	3,089.2	3,043.4	2,999.4	6.8	9.8	103.33	-207.0	-437.1	492.6	479.2	13.38	36.822			

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 3N-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 3N-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													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	-99.24	-3.6	-22.4	22.7	22.4	0.30	74.670			
100.0	100.0	100.0	100.0	0.2	0.2	-99.24	-3.6	-22.4	22.7	22.0	0.65	34.740			
200.0	200.0	200.0	200.0	0.3	0.3	-99.24	-3.6	-22.4	22.7	21.7	1.00	22.635 CC			
300.0	300.0	300.0	300.0	0.5	0.5	-99.24	-3.6	-22.4	22.7	21.6	1.08	21.016			
322.1	322.1	322.1	322.1	0.5	0.5	92.19	-3.6	-22.4	22.7	21.6	1.08	21.016			
400.0	400.0	399.8	399.8	0.7	0.7	94.02	-3.8	-22.6	22.9	21.6	1.35	16.960 ES			
500.0	500.0	499.4	499.4	0.9	0.9	98.18	-4.8	-24.0	24.7	23.0	1.70	14.498			
600.0	599.9	599.0	598.9	1.0	1.0	103.15	-6.7	-26.8	28.4	26.3	2.07	13.748 SF			
700.0	699.7	698.3	698.1	1.2	1.2	107.84	-9.7	-31.1	34.1	31.6	2.44	13.970			
800.0	799.4	797.5	797.1	1.4	1.4	111.69	-13.6	-36.7	41.8	39.0	2.83	14.761			
900.0	898.9	896.5	895.7	1.7	1.6	114.36	-18.5	-43.7	51.4	48.1	3.24	15.857			
1,000.0	998.5	995.3	993.9	1.9	1.9	115.10	-24.4	-52.2	62.2	58.5	3.66	16.984			
1,100.0	1,098.1	1,093.8	1,091.7	2.1	2.1	114.61	-31.2	-61.9	74.1	70.0	4.10	18.093			
1,200.0	1,197.6	1,192.0	1,188.9	2.4	2.4	113.43	-39.0	-73.0	87.2	82.7	4.54	19.191			
1,300.0	1,297.2	1,290.1	1,285.9	2.6	2.7	111.88	-47.6	-85.5	101.5	96.5	5.00	20.296			
1,400.0	1,396.7	1,389.0	1,383.5	2.8	3.0	110.52	-56.6	-98.4	116.2	110.7	5.46	21.275			
1,500.0	1,496.3	1,487.8	1,481.1	3.0	3.3	109.47	-65.7	-111.3	130.9	125.0	5.92	22.105			
1,600.0	1,595.9	1,586.7	1,578.7	3.3	3.6	108.63	-74.7	-124.3	145.7	139.3	6.39	22.816			
1,700.0	1,695.4	1,685.6	1,676.3	3.5	3.9	107.95	-83.7	-137.2	160.5	153.6	6.85	23.431			
1,800.0	1,795.0	1,784.5	1,774.0	3.8	4.2	107.38	-92.7	-150.2	175.3	168.0	7.31	23.967			
1,900.0	1,894.5	1,883.4	1,871.6	4.0	4.5	106.90	-101.7	-163.1	190.1	182.3	7.78	24.439			
2,000.0	1,994.1	1,982.3	1,969.2	4.2	4.9	106.49	-110.7	-176.0	205.0	196.7	8.25	24.858			
2,100.0	2,093.7	2,081.1	2,066.8	4.5	5.2	106.14	-119.8	-189.0	219.8	211.1	8.71	25.231			
2,200.0	2,193.2	2,180.0	2,164.4	4.7	5.5	105.83	-128.8	-201.9	234.7	225.5	9.18	25.566			
2,300.0	2,292.8	2,278.9	2,262.0	4.9	5.8	105.55	-137.8	-214.9	249.5	239.9	9.65	25.868			
2,400.0	2,392.3	2,377.8	2,359.7	5.2	6.1	105.31	-146.8	-227.8	264.4	254.3	10.11	26.142			
2,500.0	2,491.9	2,476.7	2,457.3	5.4	6.5	105.10	-155.8	-240.7	279.3	268.7	10.58	26.392			
2,600.0	2,591.5	2,575.6	2,554.9	5.7	6.8	104.90	-164.9	-253.7	294.2	283.1	11.05	26.620			
2,700.0	2,691.0	2,674.4	2,652.5	5.9	7.1	104.73	-173.9	-266.6	309.0	297.5	11.52	26.829			
2,800.0	2,790.6	2,773.3	2,750.1	6.1	7.4	104.57	-182.9	-279.5	323.9	311.9	11.99	27.022			
2,900.0	2,890.1	2,872.2	2,847.7	6.4	7.7	104.42	-191.9	-292.5	338.8	326.3	12.46	27.200			
3,000.0	2,989.7	2,971.1	2,945.4	6.6	8.1	104.29	-200.9	-305.4	353.7	340.8	12.92	27.366			
3,100.0	3,089.2	3,070.0	3,043.0	6.8	8.4	104.16	-210.0	-318.4	368.6	355.2	13.39	27.519			
3,200.0	3,188.8	3,168.8	3,140.6	7.1	8.7	104.05	-219.0	-331.3	383.5	369.6	13.86	27.662			
3,300.0	3,288.4	3,267.7	3,238.2	7.3	9.0	103.95	-228.0	-344.2	398.4	384.0	14.33	27.796			
3,400.0	3,387.9	3,366.6	3,335.8	7.6	9.4	103.85	-237.0	-357.2	413.2	398.4	14.80	27.921			
3,500.0	3,487.5	3,465.5	3,433.4	7.8	9.7	103.76	-246.0	-370.1	428.1	412.9	15.27	28.038			
3,600.0	3,587.0	3,564.4	3,531.1	8.0	10.0	103.67	-255.0	-383.0	443.0	427.3	15.74	28.148			
3,700.0	3,686.6	3,663.3	3,628.7	8.3	10.3	103.60	-264.1	-396.0	457.9	441.7	16.21	28.252			
3,800.0	3,786.2	3,762.1	3,726.3	8.5	10.7	103.52	-273.1	-408.9	472.8	456.1	16.68	28.349			
3,900.0	3,885.7	3,861.0	3,823.9	8.8	11.0	103.45	-282.1	-421.9	487.7	470.6	17.15	28.442			

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 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3L-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+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	-90.00	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-19.6	19.6	19.3	0.30	64.488		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-19.6	19.6	18.9	0.65	30.002		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-19.6	19.6	18.6	1.00	19.549 CC		
400.0	400.0	400.0	400.0	0.7	0.7	103.80	0.0	-19.6	19.8	18.4	1.35	14.631 ES		
500.0	500.0	499.9	499.8	0.9	0.8	110.41	-0.1	-19.7	20.7	19.0	1.70	12.141		
600.0	599.9	599.6	599.5	1.0	1.0	117.01	-1.3	-21.0	23.4	21.4	2.06	11.363 SF		
700.0	699.7	699.2	699.1	1.2	1.2	121.97	-3.7	-23.5	28.1	25.7	2.43	11.568		
800.0	799.4	798.8	798.6	1.4	1.4	125.18	-7.3	-27.3	34.6	31.8	2.81	12.312		
900.0	898.9	898.2	897.7	1.7	1.6	126.70	-12.0	-32.3	42.6	39.4	3.21	13.295		
1,000.0	998.5	997.5	996.7	1.9	1.8	126.05	-17.9	-38.6	51.4	47.8	3.62	14.186		
1,100.0	1,098.1	1,096.7	1,095.3	2.1	2.0	124.09	-25.0	-46.1	60.8	56.7	4.06	14.986		
1,200.0	1,197.6	1,196.1	1,194.1	2.4	2.3	121.87	-32.8	-54.4	70.7	66.2	4.50	15.712		
1,300.0	1,297.2	1,295.6	1,292.9	2.6	2.5	120.19	-40.7	-62.7	80.7	75.8	4.95	16.309		
1,400.0	1,396.7	1,395.0	1,391.7	2.8	2.8	118.89	-48.5	-71.0	90.8	85.4	5.40	16.807		
1,500.0	1,496.3	1,494.5	1,490.5	3.0	3.0	117.84	-56.3	-79.3	100.9	95.1	5.86	17.228		
1,600.0	1,595.9	1,594.0	1,589.3	3.3	3.3	116.99	-64.1	-87.6	111.1	104.7	6.31	17.588		
1,700.0	1,695.4	1,693.5	1,688.2	3.5	3.5	116.28	-72.0	-95.9	121.2	114.4	6.77	17.898		
1,800.0	1,795.0	1,792.9	1,787.0	3.8	3.8	115.67	-79.8	-104.1	131.4	124.1	7.23	18.170		
1,900.0	1,894.5	1,892.4	1,885.8	4.0	4.0	115.16	-87.6	-112.4	141.6	133.9	7.69	18.408		
2,000.0	1,994.1	1,991.9	1,984.6	4.2	4.3	114.71	-95.5	-120.7	151.7	143.6	8.15	18.619		
2,100.0	2,093.7	2,091.4	2,083.4	4.5	4.5	114.32	-103.3	-129.0	161.9	153.3	8.61	18.807		
2,200.0	2,193.2	2,190.8	2,182.2	4.7	4.8	113.98	-111.1	-137.3	172.2	163.1	9.07	18.976		
2,300.0	2,292.8	2,290.3	2,281.1	4.9	5.1	113.67	-118.9	-145.6	182.4	172.8	9.53	19.128		
2,400.0	2,392.3	2,389.8	2,379.9	5.2	5.3	113.40	-126.8	-153.9	192.6	182.6	10.00	19.266		
2,500.0	2,491.9	2,489.2	2,478.7	5.4	5.6	113.16	-134.6	-162.2	202.8	192.3	10.46	19.392		
2,600.0	2,591.5	2,588.7	2,577.5	5.7	5.8	112.93	-142.4	-170.5	213.0	202.1	10.92	19.506		
2,700.0	2,691.0	2,688.2	2,676.3	5.9	6.1	112.73	-150.2	-178.8	223.2	211.9	11.38	19.612		
2,800.0	2,790.6	2,787.7	2,775.1	6.1	6.4	112.55	-158.1	-187.1	233.5	221.6	11.85	19.709		
2,900.0	2,890.1	2,887.1	2,874.0	6.4	6.6	112.38	-165.9	-195.4	243.7	231.4	12.31	19.798		
3,000.0	2,989.7	2,986.6	2,972.8	6.6	6.9	112.23	-173.7	-203.7	253.9	241.2	12.77	19.881		
3,100.0	3,089.2	3,086.1	3,071.6	6.8	7.2	112.08	-181.5	-212.0	264.2	250.9	13.24	19.958		
3,200.0	3,188.8	3,185.6	3,170.4	7.1	7.4	111.95	-189.4	-220.3	274.4	260.7	13.70	20.030		
3,300.0	3,288.4	3,285.0	3,269.2	7.3	7.7	111.83	-197.2	-228.6	284.6	270.5	14.16	20.097		
3,400.0	3,387.9	3,384.5	3,368.0	7.6	7.9	111.71	-205.0	-236.9	294.9	280.3	14.63	20.160		
3,500.0	3,487.5	3,484.0	3,466.9	7.8	8.2	111.61	-212.9	-245.2	305.1	290.0	15.09	20.219		
3,600.0	3,587.0	3,583.4	3,565.7	8.0	8.5	111.51	-220.7	-253.5	315.4	299.8	15.55	20.274		
3,700.0	3,686.6	3,682.9	3,664.5	8.3	8.7	111.41	-228.5	-261.8	325.6	309.6	16.02	20.326		
3,800.0	3,786.2	3,782.4	3,763.3	8.5	9.0	111.33	-236.3	-270.0	335.8	319.4	16.48	20.375		
3,900.0	3,885.7	3,881.9	3,862.1	8.8	9.3	111.24	-244.2	-278.3	346.1	329.1	16.95	20.421		
4,000.0	3,985.3	3,981.3	3,960.9	9.0	9.5	111.17	-252.0	-286.6	356.3	338.9	17.41	20.465		
4,100.0	4,084.8	4,080.8	4,059.8	9.2	9.8	111.09	-259.8	-294.9	366.6	348.7	17.88	20.507		
4,200.0	4,184.4	4,180.3	4,158.6	9.5	10.0	111.02	-267.6	-303.2	376.8	358.5	18.34	20.546		
4,300.0	4,284.0	4,279.8	4,257.4	9.7	10.3	110.96	-275.5	-311.5	387.1	368.3	18.80	20.583		
4,400.0	4,383.5	4,379.2	4,356.2	9.9	10.6	110.90	-283.3	-319.8	397.3	378.0	19.27	20.619		
4,500.0	4,483.1	4,478.7	4,455.0	10.2	10.8	110.84	-291.1	-328.1	407.5	387.8	19.73	20.653		
4,600.0	4,582.6	4,578.2	4,553.8	10.4	11.1	110.78	-299.0	-336.4	417.8	397.6	20.20	20.685		
4,700.0	4,682.2	4,677.6	4,652.7	10.7	11.4	110.73	-306.8	-344.7	428.0	407.4	20.66	20.716		
4,800.0	4,781.8	4,777.1	4,751.5	10.9	11.6	110.68	-314.6	-353.0	438.3	417.2	21.13	20.746		
4,900.0	4,881.3	4,876.6	4,850.3	11.1	11.9	110.63	-322.4	-361.3	448.5	426.9	21.59	20.774		
5,000.0	4,980.9	4,976.1	4,949.1	11.4	12.2	110.58	-330.3	-369.6	458.8	436.7	22.06	20.801		
5,100.0	5,080.4	5,075.5	5,047.9	11.6	12.4	110.54	-338.1	-377.9	469.0	446.5	22.52	20.827		

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 3N-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 3N-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													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,180.0	5,175.0	5,146.7	11.9	12.7	110.49	-345.9	-386.2	479.3	456.3	22.99	20.851		
5,300.0	5,279.6	5,274.5	5,245.6	12.1	12.9	110.45	-353.7	-394.5	489.5	466.1	23.45	20.875		
5,400.0	5,379.1	5,374.0	5,344.4	12.3	13.2	110.41	-361.6	-402.8	499.8	475.9	23.91	20.898		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3M-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-142.47	-3.6	-2.8	4.6					
100.0	100.0	100.0	100.0	0.2	0.2	-142.47	-3.6	-2.8	4.6	4.3	0.30	15.125		
200.0	200.0	200.0	200.0	0.3	0.3	-142.47	-3.6	-2.8	4.6	3.9	0.65	7.037	CC, ES	
300.0	300.0	299.9	299.9	0.5	0.5	-144.93	-4.5	-3.1	5.4	4.4	1.00	5.428		
400.0	400.0	399.8	399.7	0.7	0.7	46.70	-6.9	-4.1	7.4	6.0	1.35	5.465		
500.0	500.0	499.6	499.5	0.9	0.9	51.89	-10.9	-5.7	9.9	8.2	1.70	5.791		
600.0	599.9	599.4	599.0	1.0	1.1	58.42	-16.5	-8.0	13.0	11.0	2.07	6.309		
700.0	699.7	699.0	698.4	1.2	1.3	64.69	-23.8	-10.9	17.0	14.6	2.45	6.956		
800.0	799.4	798.8	797.7	1.4	1.5	70.63	-32.3	-14.4	21.7	18.9	2.86	7.592		
900.0	898.9	898.7	897.2	1.7	1.7	77.21	-41.0	-17.9	26.3	23.0	3.30	7.973		
1,000.0	998.5	998.5	996.6	1.9	2.0	82.04	-49.8	-21.4	31.1	27.4	3.75	8.300		
1,100.0	1,098.1	1,098.4	1,096.0	2.1	2.2	85.55	-58.5	-25.0	36.1	31.9	4.21	8.583		
1,200.0	1,197.6	1,198.2	1,195.4	2.4	2.4	88.21	-67.2	-28.5	41.2	36.5	4.67	8.826		
1,300.0	1,297.2	1,298.1	1,294.8	2.6	2.7	90.28	-75.9	-32.0	46.3	41.2	5.13	9.035		
1,400.0	1,396.7	1,397.9	1,394.2	2.8	2.9	91.93	-84.6	-35.5	51.5	45.9	5.59	9.216		
1,500.0	1,496.3	1,497.8	1,493.6	3.0	3.1	93.28	-93.3	-39.0	56.8	50.7	6.06	9.373		
1,600.0	1,595.9	1,597.6	1,593.0	3.3	3.4	94.40	-102.0	-42.6	62.0	55.5	6.52	9.510		
1,700.0	1,695.4	1,697.5	1,692.5	3.5	3.6	95.35	-110.7	-46.1	67.3	60.3	6.99	9.632		
1,800.0	1,795.0	1,797.4	1,791.9	3.8	3.8	96.16	-119.4	-49.6	72.6	65.1	7.45	9.739		
1,900.0	1,894.5	1,897.2	1,891.3	4.0	4.1	96.85	-128.1	-53.1	77.9	70.0	7.92	9.835		
2,000.0	1,994.1	1,997.1	1,990.7	4.2	4.3	97.46	-136.8	-56.6	83.2	74.8	8.39	9.922		
2,100.0	2,093.7	2,096.9	2,090.1	4.5	4.6	98.00	-145.5	-60.2	88.5	79.7	8.85	10.000		
2,200.0	2,193.2	2,196.8	2,189.5	4.7	4.8	98.47	-154.2	-63.7	93.9	84.6	9.32	10.070		
2,300.0	2,292.8	2,296.6	2,288.9	4.9	5.0	98.90	-162.9	-67.2	99.2	89.4	9.79	10.134		
2,400.0	2,392.3	2,396.5	2,388.3	5.2	5.3	99.28	-171.6	-70.7	104.6	94.3	10.26	10.193		
2,500.0	2,491.9	2,496.3	2,487.8	5.4	5.5	99.62	-180.3	-74.2	109.9	99.2	10.73	10.247		
2,600.0	2,591.5	2,596.2	2,587.2	5.7	5.8	99.93	-189.0	-77.8	115.3	104.1	11.19	10.297		
2,700.0	2,691.0	2,696.0	2,686.6	5.9	6.0	100.22	-197.7	-81.3	120.6	108.9	11.66	10.342		
2,800.0	2,790.6	2,795.9	2,786.0	6.1	6.2	100.48	-206.4	-84.8	126.0	113.8	12.13	10.385		
2,900.0	2,890.1	2,895.8	2,885.4	6.4	6.5	100.72	-215.1	-88.3	131.3	118.7	12.60	10.424		
3,000.0	2,989.7	2,995.6	2,984.8	6.6	6.7	100.94	-223.8	-91.8	136.7	123.6	13.07	10.461		
3,100.0	3,089.2	3,095.5	3,084.2	6.8	6.9	101.14	-232.5	-95.4	142.0	128.5	13.53	10.495		
3,200.0	3,188.8	3,195.3	3,183.6	7.1	7.2	101.33	-241.2	-98.9	147.4	133.4	14.00	10.527		
3,300.0	3,288.4	3,295.2	3,283.1	7.3	7.4	101.51	-249.9	-102.4	152.8	138.3	14.47	10.557		
3,400.0	3,387.9	3,395.0	3,382.5	7.6	7.7	101.67	-258.6	-105.9	158.1	143.2	14.94	10.585		
3,500.0	3,487.5	3,494.9	3,481.9	7.8	7.9	101.82	-267.4	-109.4	163.5	148.1	15.41	10.612		
3,600.0	3,587.0	3,594.7	3,581.3	8.0	8.1	101.96	-276.1	-113.0	168.9	153.0	15.88	10.637		
3,700.0	3,686.6	3,694.6	3,680.7	8.3	8.4	102.10	-284.8	-116.5	174.2	157.9	16.34	10.660		
3,800.0	3,786.2	3,794.5	3,780.1	8.5	8.6	102.22	-293.5	-120.0	179.6	162.8	16.81	10.683		
3,900.0	3,885.7	3,894.3	3,879.5	8.8	8.9	102.34	-302.2	-123.5	185.0	167.7	17.28	10.704		
4,000.0	3,985.3	3,994.2	3,978.9	9.0	9.1	102.46	-310.9	-127.0	190.4	172.6	17.75	10.724		
4,100.0	4,084.8	4,094.0	4,078.4	9.2	9.3	102.56	-319.6	-130.6	195.7	177.5	18.22	10.743		
4,200.0	4,184.4	4,193.9	4,177.8	9.5	9.6	102.66	-328.3	-134.1	201.1	182.4	18.69	10.761		
4,300.0	4,284.0	4,293.7	4,277.2	9.7	9.8	102.76	-337.0	-137.6	206.5	187.3	19.16	10.778		
4,400.0	4,383.5	4,393.6	4,376.6	9.9	10.0	102.85	-345.7	-141.1	211.8	192.2	19.63	10.795		
4,500.0	4,483.1	4,493.4	4,476.0	10.2	10.3	102.93	-354.4	-144.6	217.2	197.1	20.09	10.810		
4,600.0	4,582.6	4,593.3	4,575.4	10.4	10.5	103.02	-363.1	-148.2	222.6	202.0	20.56	10.825		
4,700.0	4,682.2	4,693.1	4,674.8	10.7	10.8	103.09	-371.8	-151.7	228.0	206.9	21.03	10.840		
4,800.0	4,781.8	4,793.0	4,774.2	10.9	11.0	103.17	-380.5	-155.2	233.4	211.9	21.50	10.854		
4,900.0	4,881.3	4,892.9	4,873.7	11.1	11.2	103.24	-389.2	-158.7	238.7	216.8	21.97	10.867		
5,000.0	4,980.9	4,992.7	4,973.1	11.4	11.5	103.31	-397.9	-162.2	244.1	221.7	22.44	10.879		
5,100.0	5,080.4	5,092.6	5,072.5	11.6	11.7	103.37	-406.6	-165.8	249.5	226.6	22.91	10.891		

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 3N-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 3N-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)				
5,200.0	5,180.0	5,192.4	5,171.9	11.9	12.0	103.43	-415.3	-169.3	254.9	231.5	23.38	10.903		
5,300.0	5,279.6	5,292.3	5,271.3	12.1	12.2	103.49	-424.0	-172.8	260.2	236.4	23.84	10.914		
5,400.0	5,379.1	5,392.1	5,370.7	12.3	12.4	103.55	-432.7	-176.3	265.6	241.3	24.31	10.925		
5,500.0	5,478.7	5,492.0	5,470.1	12.6	12.7	103.60	-441.4	-179.8	271.0	246.2	24.78	10.935		
5,600.0	5,578.2	5,591.8	5,569.5	12.8	12.9	103.66	-450.1	-183.4	276.4	251.1	25.25	10.945		
5,700.0	5,677.8	5,691.7	5,669.0	13.1	13.2	103.71	-458.8	-186.9	281.8	256.0	25.72	10.955		
5,800.0	5,777.4	5,791.6	5,768.4	13.3	13.4	103.76	-467.5	-190.4	287.1	260.9	26.19	10.964		
5,900.0	5,876.9	5,891.4	5,867.8	13.5	13.6	103.80	-476.3	-193.9	292.5	265.9	26.66	10.973		
6,000.0	5,976.5	5,991.3	5,967.2	13.8	13.9	103.85	-485.0	-197.4	297.9	270.8	27.13	10.982		
6,100.0	6,076.0	6,091.1	6,066.6	14.0	14.1	103.89	-493.7	-201.0	303.3	275.7	27.59	10.990		
6,200.0	6,175.6	6,191.0	6,166.0	14.2	14.4	103.93	-502.4	-204.5	308.7	280.6	28.06	10.998		
6,300.0	6,275.2	6,290.8	6,265.4	14.5	14.6	103.98	-511.1	-208.0	314.0	285.5	28.53	11.006		
6,400.0	6,374.7	6,390.7	6,364.8	14.7	14.8	104.02	-519.8	-211.5	319.4	290.4	29.00	11.014		
6,500.0	6,474.3	6,490.5	6,464.3	15.0	15.1	104.05	-528.5	-215.0	324.8	295.3	29.47	11.021		
6,600.0	6,573.8	6,590.4	6,563.7	15.2	15.3	104.09	-537.2	-218.6	330.2	300.2	29.94	11.028		
6,700.0	6,673.4	6,690.2	6,663.1	15.4	15.5	104.13	-545.9	-222.1	335.6	305.1	30.41	11.035		
6,800.0	6,773.0	6,790.1	6,762.5	15.7	15.8	111.07	-554.6	-225.6	340.9	310.0	30.87	11.043		
6,900.0	6,872.8	6,889.1	6,861.1	15.7	16.0	-97.54	-563.2	-229.1	345.9	314.7	31.13	11.109		
7,000.0	6,970.5	6,984.6	6,956.1	15.6	16.3	-96.22	-571.5	-232.4	351.8	320.7	31.12	11.306		
7,100.0	7,063.3	7,081.1	7,052.4	15.3	16.4	-100.24	-575.8	-235.9	361.8	331.1	30.71	11.781		
7,200.0	7,148.2	7,187.0	7,157.3	14.9	16.4	-104.89	-562.6	-239.8	376.0	346.2	29.87	12.588		
7,300.0	7,222.6	7,303.6	7,267.7	14.5	16.1	-109.41	-526.1	-244.1	393.2	364.5	28.68	13.707		
7,400.0	7,284.4	7,433.2	7,378.9	14.1	15.7	-113.52	-460.2	-248.7	411.4	384.1	27.29	15.075		
7,500.0	7,331.6	7,577.6	7,481.8	13.7	15.1	-116.95	-359.6	-253.3	428.4	402.4	25.95	16.507		
7,600.0	7,362.8	7,736.4	7,562.2	13.6	14.6	-119.38	-223.2	-257.4	441.4	416.4	25.02	17.644		
7,700.0	7,377.1	7,905.9	7,603.2	13.6	14.5	-120.49	-59.5	-260.3	448.3	423.5	24.87	18.028		
7,800.0	7,378.0	8,029.6	7,606.0	13.9	14.8	-120.48	64.1	-261.5	449.5	424.1	25.44	17.669		
7,900.0	7,378.0	8,129.6	7,606.0	14.3	15.2	-120.42	164.1	-262.4	450.3	424.0	26.31	17.112		
8,000.0	7,378.0	8,229.6	7,606.0	15.0	15.9	-120.37	264.1	-263.2	451.0	423.5	27.49	16.405		
8,100.0	7,378.0	8,329.6	7,606.0	15.8	16.7	-120.31	364.1	-264.1	451.8	422.8	28.95	15.607		
8,200.0	7,378.0	8,429.6	7,606.0	16.8	17.6	-120.26	464.1	-265.0	452.5	421.9	30.64	14.771		
8,300.0	7,378.0	8,529.6	7,606.0	17.9	18.7	-120.20	564.1	-265.9	453.3	420.8	32.52	13.936		
8,400.0	7,378.0	8,629.6	7,606.0	19.1	19.8	-120.14	664.1	-266.7	454.0	419.5	34.58	13.129		
8,500.0	7,378.0	8,729.6	7,606.0	20.4	21.1	-120.09	764.1	-267.6	454.8	418.0	36.78	12.366		
8,600.0	7,378.0	8,829.6	7,606.0	21.7	22.4	-120.03	864.0	-268.5	455.5	416.5	39.09	11.653		
8,700.0	7,378.0	8,929.6	7,606.0	23.1	23.7	-119.98	964.0	-269.4	456.3	414.8	41.50	10.994		
8,800.0	7,378.0	9,029.5	7,606.0	24.5	25.1	-119.92	1,064.0	-270.2	457.1	413.1	44.00	10.387		
8,900.0	7,378.0	9,129.5	7,606.0	26.0	26.6	-119.87	1,164.0	-271.1	457.8	411.2	46.57	9.831		
9,000.0	7,378.0	9,229.5	7,606.0	27.5	28.1	-119.82	1,264.0	-272.0	458.6	409.4	49.19	9.322		
9,100.0	7,378.0	9,329.5	7,606.0	29.1	29.6	-119.76	1,364.0	-272.8	459.3	407.5	51.87	8.855		
9,200.0	7,378.0	9,429.5	7,606.0	30.6	31.1	-119.71	1,464.0	-273.7	460.1	405.5	54.59	8.428		
9,300.0	7,378.0	9,529.5	7,606.0	32.2	32.7	-119.65	1,564.0	-274.6	460.8	403.5	57.35	8.035		
9,400.0	7,378.0	9,629.5	7,606.0	33.8	34.3	-119.60	1,664.0	-275.5	461.6	401.5	60.14	7.675		
9,500.0	7,378.0	9,729.5	7,606.0	35.4	35.9	-119.55	1,764.0	-276.3	462.4	399.4	62.97	7.343		
9,600.0	7,378.0	9,829.5	7,606.0	37.0	37.5	-119.49	1,864.0	-277.2	463.1	397.3	65.82	7.036		
9,700.0	7,378.0	9,929.5	7,606.0	38.7	39.1	-119.44	1,964.0	-278.1	463.9	395.2	68.69	6.753		
9,800.0	7,378.0	10,029.5	7,606.0	40.3	40.7	-119.39	2,064.0	-279.0	464.6	393.1	71.58	6.491		
9,900.0	7,378.0	10,129.5	7,606.0	42.0	42.4	-119.34	2,163.9	-279.8	465.4	390.9	74.49	6.247		
10,000.0	7,378.0	10,229.5	7,606.0	43.7	44.0	-119.28	2,263.9	-280.7	466.2	388.7	77.42	6.021		
10,100.0	7,378.0	10,329.5	7,606.0	45.3	45.7	-119.23	2,363.9	-281.6	466.9	386.6	80.37	5.810		
10,200.0	7,378.0	10,429.5	7,606.0	47.0	47.4	-119.18	2,463.9	-282.4	467.7	384.4	83.33	5.613		
10,300.0	7,378.0	10,539.6	7,606.0	48.7	49.2	-119.17	2,574.0	-282.5	467.8	381.4	86.41	5.414		

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 3N-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 3N-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,400.0	7,378.0	10,656.4	7,606.0	50.4	51.1	-119.43	2,690.7	-278.3	464.6	375.2	89.40	5.197			
10,500.0	7,378.0	10,772.7	7,606.0	52.1	53.1	-119.99	2,806.7	-269.2	457.8	365.7	92.12	4.970			
10,600.0	7,378.0	10,888.0	7,606.0	53.8	55.0	-120.88	2,921.2	-255.5	447.5	353.0	94.51	4.735			
10,700.0	7,378.0	11,002.0	7,606.0	55.5	56.9	-122.12	3,033.7	-237.3	433.9	337.4	96.45	4.498			
10,800.0	7,378.0	11,073.3	7,606.0	57.2	58.1	-123.11	3,103.7	-223.8	419.0	321.1	97.94	4.278			
10,836.2	7,378.0	11,073.3	7,606.0	57.8	58.1	-123.11	3,103.7	-223.8	417.4	319.0	98.46	4.240			
10,837.1	7,378.0	11,073.3	7,606.0	57.8	58.1	-123.11	3,103.7	-223.8	417.4	319.0	98.47	4.239 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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 30-32H-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	123.07	-3.6	5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	123.07	-3.6	5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	123.07	-3.6	5.6	6.7	6.0	0.65	10.229		
233.5	233.5	233.5	233.5	0.4	0.4	123.07	-3.6	5.6	6.7	5.9	0.77	8.676	CC	
300.0	300.0	299.9	299.9	0.5	0.5	123.69	-3.8	5.7	6.9	5.9	1.00	6.870	ES	
400.0	400.0	399.8	399.8	0.7	0.7	-45.25	-5.2	6.8	7.9	6.6	1.35	5.853		
500.0	500.0	499.7	499.6	0.9	0.9	-49.42	-8.0	8.9	9.4	7.7	1.70	5.501		
600.0	599.9	599.5	599.3	1.0	1.1	-55.44	-12.2	12.0	11.4	9.3	2.07	5.509		
700.0	699.7	699.2	698.8	1.2	1.3	-61.76	-17.7	16.2	14.0	11.6	2.45	5.740		
800.0	799.4	799.0	798.1	1.4	1.5	-67.54	-24.7	21.4	17.4	14.6	2.86	6.109		
900.0	898.9	898.7	897.3	1.7	1.7	-71.67	-33.0	27.6	21.7	18.4	3.29	6.600		
1,000.0	998.5	998.5	996.5	1.9	2.0	-73.65	-41.8	34.2	26.4	22.7	3.73	7.086		
1,100.0	1,098.1	1,098.4	1,095.8	2.1	2.2	-75.03	-50.6	40.9	31.2	27.0	4.18	7.461		
1,200.0	1,197.6	1,198.3	1,195.1	2.4	2.4	-76.05	-59.5	47.5	36.0	31.3	4.64	7.757		
1,300.0	1,297.2	1,298.2	1,294.4	2.6	2.7	-76.82	-68.3	54.1	40.8	35.7	5.10	7.995		
1,400.0	1,396.7	1,398.1	1,393.6	2.8	3.0	-77.44	-77.1	60.7	45.6	40.0	5.56	8.192		
1,500.0	1,496.3	1,498.0	1,492.9	3.0	3.2	-77.93	-86.0	67.4	50.3	44.3	6.03	8.355		
1,600.0	1,595.9	1,597.8	1,592.2	3.3	3.5	-78.34	-94.8	74.0	55.1	48.6	6.49	8.494		
1,700.0	1,695.4	1,697.7	1,691.4	3.5	3.7	-78.69	-103.7	80.6	59.9	53.0	6.96	8.612		
1,800.0	1,795.0	1,797.6	1,790.7	3.8	4.0	-78.98	-112.5	87.3	64.7	57.3	7.43	8.715		
1,900.0	1,894.5	1,897.5	1,890.0	4.0	4.2	-79.23	-121.3	93.9	69.5	61.6	7.90	8.804		
2,000.0	1,994.1	1,997.4	1,989.3	4.2	4.5	-79.46	-130.2	100.5	74.3	66.0	8.37	8.883		
2,100.0	2,093.7	2,097.3	2,088.5	4.5	4.7	-79.65	-139.0	107.1	79.1	70.3	8.84	8.953		
2,200.0	2,193.2	2,197.2	2,187.8	4.7	5.0	-79.82	-147.8	113.8	83.9	74.6	9.31	9.015		
2,300.0	2,292.8	2,297.0	2,287.1	4.9	5.3	-79.97	-156.7	120.4	88.7	79.0	9.78	9.071		
2,400.0	2,392.3	2,396.9	2,386.4	5.2	5.5	-80.11	-165.5	127.0	93.6	83.3	10.26	9.122		
2,500.0	2,491.9	2,496.8	2,485.6	5.4	5.8	-80.23	-174.3	133.7	98.4	87.6	10.73	9.168		
2,600.0	2,591.5	2,596.7	2,584.9	5.7	6.0	-80.35	-183.2	140.3	103.2	92.0	11.20	9.209		
2,700.0	2,691.0	2,696.6	2,684.2	5.9	6.3	-80.45	-192.0	146.9	108.0	96.3	11.68	9.248		
2,800.0	2,790.6	2,796.5	2,783.4	6.1	6.6	-80.54	-200.8	153.5	112.8	100.6	12.15	9.283		
2,900.0	2,890.1	2,896.3	2,882.7	6.4	6.8	-80.63	-209.7	160.2	117.6	105.0	12.62	9.315		
3,000.0	2,989.7	2,996.2	2,982.0	6.6	7.1	-80.71	-218.5	166.8	122.4	109.3	13.10	9.345		
3,100.0	3,089.2	3,096.1	3,081.3	6.8	7.3	-80.78	-227.4	173.4	127.2	113.6	13.57	9.373		
3,200.0	3,188.8	3,196.0	3,180.5	7.1	7.6	-80.85	-236.2	180.1	132.0	118.0	14.05	9.398		
3,300.0	3,288.4	3,295.9	3,279.8	7.3	7.9	-80.91	-245.0	186.7	136.8	122.3	14.52	9.422		
3,400.0	3,387.9	3,395.8	3,379.1	7.6	8.1	-80.97	-253.9	193.3	141.6	126.6	14.99	9.445		
3,500.0	3,487.5	3,495.7	3,478.3	7.8	8.4	-81.02	-262.7	199.9	146.4	131.0	15.47	9.466		
3,600.0	3,587.0	3,595.5	3,577.6	8.0	8.6	-81.08	-271.5	206.6	151.2	135.3	15.94	9.485		
3,700.0	3,686.6	3,695.4	3,676.9	8.3	8.9	-81.12	-280.4	213.2	156.0	139.6	16.42	9.504		
3,800.0	3,786.2	3,795.3	3,776.2	8.5	9.1	-81.17	-289.2	219.8	160.9	144.0	16.89	9.521		
3,900.0	3,885.7	3,895.2	3,875.4	8.8	9.4	-81.21	-298.0	226.5	165.7	148.3	17.37	9.537		
4,000.0	3,985.3	3,995.1	3,974.7	9.0	9.7	-81.25	-306.9	233.1	170.5	152.6	17.84	9.553		
4,100.0	4,084.8	4,095.0	4,074.0	9.2	9.9	-81.29	-315.7	239.7	175.3	157.0	18.32	9.568		
4,200.0	4,184.4	4,194.8	4,173.2	9.5	10.2	-81.33	-324.5	246.3	180.1	161.3	18.80	9.581		
4,300.0	4,284.0	4,294.7	4,272.5	9.7	10.4	-81.36	-333.4	253.0	184.9	165.6	19.27	9.595		
4,400.0	4,383.5	4,394.6	4,371.8	9.9	10.7	-81.39	-342.2	259.6	189.7	170.0	19.75	9.607		
4,500.0	4,483.1	4,494.5	4,471.1	10.2	11.0	-81.42	-351.0	266.2	194.5	174.3	20.22	9.619		
4,600.0	4,582.6	4,594.4	4,570.3	10.4	11.2	-81.45	-359.9	272.9	199.3	178.6	20.70	9.630		
4,700.0	4,682.2	4,694.3	4,669.6	10.7	11.5	-81.48	-368.7	279.5	204.1	183.0	21.17	9.641		
4,800.0	4,781.8	4,794.1	4,768.9	10.9	11.7	-81.51	-377.6	286.1	208.9	187.3	21.65	9.652		
4,900.0	4,881.3	4,894.0	4,868.1	11.1	12.0	-81.53	-386.4	292.7	213.7	191.6	22.12	9.661		
5,000.0	4,980.9	4,993.9	4,967.4	11.4	12.3	-81.56	-395.2	299.4	218.6	196.0	22.60	9.671		

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 3N-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 3N-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
5,100.0	5,080.4	5,093.8	5,066.7	11.6	12.5	-81.58	-404.1	306.0	223.4	200.3	23.08	9.680			
5,200.0	5,180.0	5,193.7	5,166.0	11.9	12.8	-81.60	-412.9	312.6	228.2	204.6	23.55	9.689			
5,300.0	5,279.6	5,293.6	5,265.2	12.1	13.0	-81.63	-421.7	319.3	233.0	209.0	24.03	9.697			
5,400.0	5,379.1	5,393.5	5,364.5	12.3	13.3	-81.65	-430.6	325.9	237.8	213.3	24.50	9.705			
5,500.0	5,478.7	5,493.3	5,463.8	12.6	13.6	-81.67	-439.4	332.5	242.6	217.6	24.98	9.713			
5,600.0	5,578.2	5,593.2	5,563.0	12.8	13.8	-81.68	-448.2	339.1	247.4	222.0	25.45	9.720			
5,700.0	5,677.8	5,693.1	5,662.3	13.1	14.1	-81.70	-457.1	345.8	252.2	226.3	25.93	9.727			
5,800.0	5,777.4	5,793.0	5,761.6	13.3	14.3	-81.72	-465.9	352.4	257.0	230.6	26.41	9.734			
5,900.0	5,876.9	5,892.9	5,860.9	13.5	14.6	-81.74	-474.7	359.0	261.8	235.0	26.88	9.740			
6,000.0	5,976.5	5,992.8	5,960.1	13.8	14.9	-81.75	-483.6	365.7	266.6	239.3	27.36	9.747			
6,100.0	6,076.0	6,092.6	6,059.4	14.0	15.1	-81.77	-492.4	372.3	271.5	243.6	27.83	9.753			
6,200.0	6,175.6	6,192.5	6,158.7	14.2	15.4	-81.78	-501.3	378.9	276.3	248.0	28.31	9.759			
6,300.0	6,275.2	6,292.4	6,257.9	14.5	15.6	-81.80	-510.1	385.5	281.1	252.3	28.79	9.765			
6,400.0	6,374.7	6,392.3	6,357.2	14.7	15.9	-81.81	-518.9	392.2	285.9	256.6	29.26	9.770			
6,500.0	6,474.3	6,492.2	6,456.5	15.0	16.2	-81.83	-527.8	398.8	290.7	261.0	29.74	9.775			
6,600.0	6,573.8	6,592.1	6,555.8	15.2	16.4	-81.84	-536.6	405.4	295.5	265.3	30.21	9.781			
6,700.0	6,673.4	6,691.9	6,655.0	15.4	16.7	-81.85	-545.4	412.1	300.3	269.6	30.69	9.786			
6,800.0	6,773.0	6,791.8	6,754.3	15.7	16.9	-75.04	-554.3	418.7	305.1	273.9	31.16	9.791			
6,900.0	6,872.8	6,890.9	6,852.7	15.7	17.2	79.64	-563.0	425.3	309.4	278.2	31.27	9.895			
7,000.0	6,970.5	6,986.3	6,947.6	15.6	17.5	89.38	-571.5	431.6	314.9	284.0	30.89	10.195			
7,100.0	7,063.3	7,082.2	7,043.0	15.3	17.6	96.86	-576.9	438.0	325.1	295.1	30.06	10.817			
7,200.0	7,148.2	7,188.4	7,148.2	14.9	17.7	103.57	-565.4	445.0	340.4	311.4	28.91	11.774			
7,300.0	7,222.6	7,305.9	7,259.9	14.5	17.5	109.51	-530.4	452.4	359.0	331.4	27.59	13.014			
7,400.0	7,284.4	7,437.3	7,373.5	14.1	17.1	114.66	-465.2	460.0	378.9	352.7	26.22	14.448			
7,500.0	7,331.6	7,584.8	7,479.5	13.7	16.6	118.83	-363.5	467.1	397.1	372.1	25.03	15.868			
7,600.0	7,362.8	7,748.1	7,562.4	13.6	16.2	121.75	-223.5	472.6	410.8	386.5	24.27	16.924			
7,700.0	7,377.1	7,922.7	7,603.8	13.6	16.1	123.06	-54.6	475.4	417.2	392.9	24.25	17.204			
7,800.0	7,378.0	8,044.9	7,606.0	13.9	16.3	123.11	67.5	475.6	417.4	392.6	24.82	16.816			
7,900.0	7,378.0	8,144.9	7,606.0	14.3	16.8	123.11	167.5	475.6	417.4	391.8	25.69	16.252			
8,000.0	7,378.0	8,244.9	7,606.0	15.0	17.3	123.11	267.5	475.6	417.4	390.6	26.85	15.550			
8,100.0	7,378.0	8,344.9	7,606.0	15.8	18.1	123.11	367.5	475.6	417.4	389.2	28.27	14.769			
8,200.0	7,378.0	8,444.9	7,606.0	16.8	18.9	123.11	467.5	475.6	417.4	387.5	29.91	13.957			
8,300.0	7,378.0	8,544.9	7,606.0	17.9	19.9	123.11	567.5	475.6	417.4	385.7	31.74	13.151			
8,400.0	7,378.0	8,644.9	7,606.0	19.1	21.0	123.11	667.5	475.6	417.4	383.7	33.73	12.375			
8,500.0	7,378.0	8,744.9	7,606.0	20.4	22.2	123.11	767.5	475.6	417.4	381.6	35.85	11.642			
8,600.0	7,378.0	8,844.9	7,606.0	21.7	23.4	123.11	867.5	475.6	417.4	379.4	38.09	10.960			
8,700.0	7,378.0	8,944.9	7,606.0	23.1	24.7	123.11	967.5	475.6	417.4	377.0	40.41	10.330			
8,800.0	7,378.0	9,044.9	7,606.0	24.5	26.1	123.11	1,067.5	475.6	417.4	374.6	42.81	9.750			
8,900.0	7,378.0	9,144.9	7,606.0	26.0	27.5	123.11	1,167.5	475.6	417.4	372.2	45.28	9.219			
9,000.0	7,378.0	9,244.9	7,606.0	27.5	28.9	123.11	1,267.5	475.6	417.4	369.6	47.80	8.733			
9,100.0	7,378.0	9,344.9	7,606.0	29.1	30.4	123.11	1,367.5	475.6	417.4	367.1	50.36	8.288			
9,200.0	7,378.0	9,444.9	7,606.0	30.6	31.9	123.11	1,467.5	475.6	417.4	364.5	52.97	7.881			
9,300.0	7,378.0	9,544.9	7,606.0	32.2	33.4	123.11	1,567.5	475.6	417.4	361.8	55.61	7.506			
9,400.0	7,378.0	9,644.9	7,606.0	33.8	35.0	123.11	1,667.5	475.6	417.4	359.2	58.28	7.163			
9,500.0	7,378.0	9,744.9	7,606.0	35.4	36.6	123.11	1,767.5	475.6	417.4	356.5	60.98	6.846			
9,600.0	7,378.0	9,844.9	7,606.0	37.0	38.1	123.11	1,867.5	475.6	417.4	353.7	63.69	6.554			
9,700.0	7,378.0	9,944.9	7,606.0	38.7	39.7	123.11	1,967.5	475.6	417.4	351.0	66.43	6.284			
9,800.0	7,378.0	10,044.9	7,606.0	40.3	41.3	123.11	2,067.5	475.6	417.4	348.3	69.18	6.034			
9,900.0	7,378.0	10,144.9	7,606.0	42.0	43.0	123.11	2,167.5	475.6	417.4	345.5	71.95	5.802			
10,000.0	7,378.0	10,244.9	7,606.0	43.7	44.6	123.11	2,267.5	475.6	417.4	342.7	74.73	5.586			
10,100.0	7,378.0	10,344.9	7,606.0	45.3	46.2	123.11	2,367.5	475.6	417.4	339.9	77.53	5.384			
10,200.0	7,378.0	10,444.9	7,606.0	47.0	47.9	123.11	2,467.5	475.6	417.4	337.1	80.34	5.196			

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 3N-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 3N-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													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	7,378.0	10,544.9	7,606.0	48.7	49.5	123.11	2,567.5	475.6	417.4	334.3	83.15	5.020			
10,400.0	7,378.0	10,644.9	7,606.0	50.4	51.2	123.11	2,667.5	475.6	417.4	331.5	85.97	4.855			
10,500.0	7,378.0	10,744.9	7,606.0	52.1	52.9	123.11	2,767.5	475.6	417.4	328.6	88.81	4.701			
10,600.0	7,378.0	10,844.9	7,606.0	53.8	54.5	123.11	2,867.5	475.6	417.4	325.8	91.65	4.555			
10,700.0	7,378.0	10,944.9	7,606.0	55.5	56.2	123.11	2,967.5	475.6	417.4	322.9	94.49	4.418			
10,800.0	7,378.0	11,044.9	7,606.0	57.2	57.9	123.11	3,067.5	475.6	417.4	320.1	97.34	4.288			
10,828.0	7,378.0	11,072.9	7,606.0	57.6	58.4	123.11	3,095.5	475.6	417.4	319.3	98.14	4.253			
10,837.1	7,378.0	11,077.4	7,606.0	57.8	58.5	123.11	3,100.0	475.6	417.5	319.1	98.34	4.245 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3P-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	11.2	11.2	10.9	0.30	36.850		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	11.2	11.2	10.5	0.65	17.144	CC, ES	
300.0	300.0	299.8	299.8	0.5	0.5	92.56	-0.5	11.9	11.9	10.9	1.00	11.872		
400.0	400.0	399.6	399.6	0.7	0.7	-73.38	-2.1	13.9	13.8	12.5	1.35	10.229		
500.0	500.0	499.4	499.2	0.9	0.9	-73.95	-4.8	17.4	16.8	15.1	1.71	9.808	SF	
600.0	599.9	599.0	598.7	1.0	1.1	-76.33	-8.5	22.2	20.7	18.6	2.08	9.957		
700.0	699.7	698.6	697.9	1.2	1.3	-79.40	-13.3	28.3	25.7	23.2	2.47	10.411		
800.0	799.4	798.0	796.9	1.4	1.5	-82.51	-19.1	35.9	31.8	28.9	2.88	11.028		
900.0	898.9	897.3	895.5	1.7	1.8	-84.93	-25.9	44.7	39.0	35.7	3.32	11.763		
1,000.0	998.5	996.4	993.8	1.9	2.0	-85.27	-33.8	54.9	47.6	43.8	3.77	12.622		
1,100.0	1,098.1	1,095.4	1,091.8	2.1	2.3	-84.34	-42.7	66.4	57.3	53.1	4.22	13.565		
1,200.0	1,197.6	1,194.9	1,190.2	2.4	2.6	-83.43	-51.8	78.3	67.3	62.7	4.68	14.387		
1,300.0	1,297.2	1,294.4	1,288.5	2.6	2.9	-82.75	-61.0	90.1	77.4	72.3	5.14	15.057		
1,400.0	1,396.7	1,393.9	1,386.9	2.8	3.2	-82.23	-70.2	102.0	87.5	81.9	5.60	15.612		
1,500.0	1,496.3	1,493.4	1,485.2	3.0	3.5	-81.82	-79.3	113.8	97.5	91.5	6.07	16.079		
1,600.0	1,595.9	1,592.9	1,583.6	3.3	3.8	-81.48	-88.5	125.7	107.6	101.1	6.53	16.478		
1,700.0	1,695.4	1,692.4	1,681.9	3.5	4.1	-81.20	-97.7	137.6	117.7	110.7	7.00	16.821		
1,800.0	1,795.0	1,791.9	1,780.3	3.8	4.5	-80.97	-106.8	149.4	127.8	120.3	7.46	17.120		
1,900.0	1,894.5	1,891.3	1,878.6	4.0	4.8	-80.77	-116.0	161.3	137.9	129.9	7.93	17.383		
2,000.0	1,994.1	1,990.8	1,977.0	4.2	5.1	-80.59	-125.2	173.2	147.9	139.5	8.40	17.615		
2,100.0	2,093.7	2,090.3	2,075.3	4.5	5.4	-80.44	-134.3	185.0	158.0	149.2	8.87	17.822		
2,200.0	2,193.2	2,189.8	2,173.7	4.7	5.7	-80.31	-143.5	196.9	168.1	158.8	9.34	18.007		
2,300.0	2,292.8	2,289.3	2,272.0	4.9	6.0	-80.19	-152.7	208.7	178.2	168.4	9.81	18.174		
2,400.0	2,392.3	2,388.8	2,370.4	5.2	6.3	-80.09	-161.8	220.6	188.3	178.0	10.28	18.325		
2,500.0	2,491.9	2,488.3	2,468.7	5.4	6.6	-79.99	-171.0	232.5	198.4	187.6	10.75	18.463		
2,600.0	2,591.5	2,587.8	2,567.1	5.7	7.0	-79.91	-180.2	244.3	208.5	197.3	11.22	18.589		
2,700.0	2,691.0	2,687.3	2,665.5	5.9	7.3	-79.83	-189.3	256.2	218.6	206.9	11.69	18.704		
2,800.0	2,790.6	2,786.7	2,763.8	6.1	7.6	-79.76	-198.5	268.1	228.7	216.5	12.16	18.811		
2,900.0	2,890.1	2,886.2	2,862.2	6.4	7.9	-79.69	-207.7	279.9	238.8	226.1	12.63	18.909		
3,000.0	2,989.7	2,985.7	2,960.5	6.6	8.2	-79.64	-216.8	291.8	248.8	235.7	13.10	19.000		
3,100.0	3,089.2	3,085.2	3,058.9	6.8	8.5	-79.58	-226.0	303.7	258.9	245.4	13.57	19.084		
3,200.0	3,188.8	3,184.7	3,157.2	7.1	8.8	-79.53	-235.2	315.5	269.0	255.0	14.04	19.163		
3,300.0	3,288.4	3,284.2	3,255.6	7.3	9.1	-79.48	-244.3	327.4	279.1	264.6	14.51	19.236		
3,400.0	3,387.9	3,383.7	3,353.9	7.6	9.5	-79.44	-253.5	339.2	289.2	274.2	14.98	19.305		
3,500.0	3,487.5	3,483.2	3,452.3	7.8	9.8	-79.40	-262.7	351.1	299.3	283.9	15.45	19.369		
3,600.0	3,587.0	3,582.7	3,550.6	8.0	10.1	-79.36	-271.8	363.0	309.4	293.5	15.92	19.430		
3,700.0	3,686.6	3,682.2	3,649.0	8.3	10.4	-79.32	-281.0	374.8	319.5	303.1	16.40	19.487		
3,800.0	3,786.2	3,781.6	3,747.3	8.5	10.7	-79.29	-290.2	386.7	329.6	312.7	16.87	19.540		
3,900.0	3,885.7	3,881.1	3,845.7	8.8	11.0	-79.26	-299.3	398.6	339.7	322.3	17.34	19.591		
4,000.0	3,985.3	3,980.6	3,944.0	9.0	11.3	-79.23	-308.5	410.4	349.8	332.0	17.81	19.639		
4,100.0	4,084.8	4,080.1	4,042.4	9.2	11.7	-79.20	-317.7	422.3	359.9	341.6	18.28	19.684		
4,200.0	4,184.4	4,179.6	4,140.7	9.5	12.0	-79.18	-326.8	434.2	370.0	351.2	18.75	19.727		
4,300.0	4,284.0	4,279.1	4,239.1	9.7	12.3	-79.15	-336.0	446.0	380.1	360.8	19.23	19.768		
4,400.0	4,383.5	4,378.6	4,337.5	9.9	12.6	-79.13	-345.2	457.9	390.2	370.5	19.70	19.807		
4,500.0	4,483.1	4,478.1	4,435.8	10.2	12.9	-79.10	-354.3	469.7	400.2	380.1	20.17	19.844		
4,600.0	4,582.6	4,577.6	4,534.2	10.4	13.2	-79.08	-363.5	481.6	410.3	389.7	20.64	19.880		
4,700.0	4,682.2	4,677.0	4,632.5	10.7	13.6	-79.06	-372.7	493.5	420.4	399.3	21.11	19.914		
4,800.0	4,781.8	4,776.5	4,730.9	10.9	13.9	-79.04	-381.8	505.3	430.5	408.9	21.58	19.946		
4,900.0	4,881.3	4,876.0	4,829.2	11.1	14.2	-79.02	-391.0	517.2	440.6	418.6	22.06	19.977		
5,000.0	4,980.9	4,975.5	4,927.6	11.4	14.5	-79.01	-400.2	529.1	450.7	428.2	22.53	20.006		
5,100.0	5,080.4	5,075.0	5,025.9	11.6	14.8	-78.99	-409.3	540.9	460.8	437.8	23.00	20.034		

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 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - File 3P-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,180.0	5,174.5	5,124.3	11.9	15.1	-78.97	-418.5	552.8	470.9	447.4	23.47	20.062		
5,300.0	5,279.6	5,274.0	5,222.6	12.1	15.4	-78.96	-427.7	564.6	481.0	457.1	23.94	20.088		
5,400.0	5,379.1	5,373.5	5,321.0	12.3	15.8	-78.94	-436.8	576.5	491.1	466.7	24.42	20.113		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													Offset Site Error:	0.0 ft	
Survey Program: 4996-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	57.70	182.1	288.2	340.9						
100.0	100.0	99.0	99.0	0.2	0.2	57.70	182.1	288.2	340.9	340.6	0.32	1,051.465			
200.0	200.0	199.0	199.0	0.3	0.3	57.70	182.1	288.2	340.9	340.2	0.67	506.644			
300.0	300.0	299.0	299.0	0.5	0.5	57.70	182.1	288.2	340.9	339.9	1.02	333.724	CC		
400.0	400.0	399.0	399.0	0.7	0.7	-111.11	182.1	288.2	341.2	339.8	1.37	248.930	ES		
500.0	500.0	499.0	499.0	0.9	0.9	-111.51	182.1	288.2	342.2	340.4	1.72	198.600			
600.0	599.9	598.9	598.9	1.0	1.0	-112.17	182.1	288.2	343.8	341.7	2.08	165.214			
700.0	699.7	698.7	698.7	1.2	1.2	-113.08	182.1	288.2	346.1	343.7	2.45	141.435			
800.0	799.4	798.4	798.4	1.4	1.4	-114.23	182.1	288.2	349.3	346.5	2.82	123.667			
900.0	898.9	897.9	897.9	1.7	1.6	-115.58	182.1	288.2	353.2	350.0	3.21	110.089			
1,000.0	998.5	997.5	997.5	1.9	1.7	-116.93	182.1	288.2	357.4	353.8	3.59	99.422			
1,100.0	1,098.1	1,097.1	1,097.1	2.1	1.9	-118.25	182.1	288.2	361.7	357.7	3.98	90.856			
1,200.0	1,197.6	1,196.6	1,196.6	2.4	2.1	-119.54	182.1	288.2	366.3	361.9	4.37	83.854			
1,300.0	1,297.2	1,296.2	1,296.2	2.6	2.3	-120.80	182.1	288.2	371.0	366.2	4.75	78.041			
1,400.0	1,396.7	1,395.7	1,395.7	2.8	2.4	-122.02	182.1	288.2	375.9	370.8	5.14	73.150			
1,500.0	1,496.3	1,495.3	1,495.3	3.0	2.6	-123.21	182.1	288.2	381.0	375.4	5.52	68.988			
1,600.0	1,595.9	1,594.9	1,594.9	3.3	2.8	-124.37	182.1	288.2	386.2	380.3	5.90	65.411			
1,700.0	1,695.4	1,694.4	1,694.4	3.5	3.0	-125.50	182.1	288.2	391.6	385.3	6.28	62.309			
1,800.0	1,795.0	1,794.0	1,794.0	3.8	3.1	-126.60	182.1	288.2	397.1	390.5	6.66	59.598			
1,900.0	1,894.5	1,893.5	1,893.5	4.0	3.3	-127.67	182.1	288.2	402.8	395.8	7.04	57.212			
2,000.0	1,994.1	1,993.1	1,993.1	4.2	3.5	-128.70	182.1	288.2	408.6	401.2	7.42	55.100			
2,100.0	2,093.7	2,092.7	2,092.7	4.5	3.6	-129.71	182.1	288.2	414.5	406.8	7.79	53.220			
2,200.0	2,193.2	2,192.2	2,192.2	4.7	3.8	-130.69	182.1	288.2	420.6	412.4	8.16	51.537			
2,300.0	2,292.8	2,291.8	2,291.8	4.9	4.0	-131.64	182.1	288.2	426.8	418.3	8.53	50.025			
2,400.0	2,392.3	2,391.3	2,391.3	5.2	4.2	-132.57	182.1	288.2	433.1	424.2	8.90	48.659			
2,500.0	2,491.9	2,490.9	2,490.9	5.4	4.3	-133.47	182.1	288.2	439.5	430.2	9.27	47.422			
2,600.0	2,591.5	2,590.5	2,590.5	5.7	4.5	-134.34	182.1	288.2	446.0	436.4	9.63	46.297			
2,700.0	2,691.0	2,690.0	2,690.0	5.9	4.7	-135.19	182.1	288.2	452.6	442.6	10.00	45.270			
2,800.0	2,790.6	2,789.6	2,789.6	6.1	4.9	-136.01	182.1	288.2	459.4	449.0	10.36	44.331			
2,900.0	2,890.1	2,889.1	2,889.1	6.4	5.0	-136.81	182.1	288.2	466.2	455.4	10.72	43.469			
3,000.0	2,989.7	2,988.7	2,988.7	6.6	5.2	-137.58	182.1	288.2	473.0	462.0	11.08	42.675			
3,100.0	3,089.2	3,088.2	3,088.2	6.8	5.4	-138.34	182.1	288.2	480.0	468.6	11.44	41.944			
3,200.0	3,188.8	3,187.8	3,187.8	7.1	5.6	-139.07	182.1	288.2	487.1	475.3	11.80	41.267			
3,300.0	3,288.4	3,287.4	3,287.4	7.3	5.7	-139.78	182.1	288.2	494.2	482.1	12.16	40.640	SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 8140-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	70.57	154.1	436.7	473.2					
100.0	100.0	3.0	3.0	0.2	0.0	70.57	154.1	436.7	463.1	463.0	0.16	2,944.486		
200.0	200.0	103.0	103.0	0.3	0.2	70.57	154.1	436.7	463.1	462.6	0.51	914.613		
300.0	300.0	203.0	203.0	0.5	0.4	70.57	154.1	436.7	463.1	462.3	0.86	541.389		
400.0	400.0	303.0	303.0	0.7	0.5	-98.22	154.1	436.7	463.2	462.0	1.21	384.383		
500.0	500.0	403.0	403.0	0.9	0.7	-98.53	154.1	436.7	463.6	462.1	1.56	297.524		
600.0	599.9	502.9	502.9	1.0	0.9	-99.06	154.1	436.7	464.3	462.4	1.92	242.053		
700.0	699.7	602.7	602.7	1.2	1.1	-99.79	154.1	436.7	465.3	463.0	2.29	203.359		
800.0	799.4	702.4	702.4	1.4	1.2	-100.72	154.1	436.7	466.7	464.0	2.67	174.731		
900.0	898.9	801.9	801.9	1.7	1.4	-101.82	154.1	436.7	468.5	465.4	3.06	152.980		
1,000.0	998.5	901.5	901.5	1.9	1.6	-102.93	154.1	436.7	470.5	467.1	3.46	136.076		
1,100.0	1,098.1	1,001.1	1,001.1	2.1	1.7	-104.04	154.1	436.7	472.7	468.9	3.86	122.619		
1,200.0	1,197.6	1,100.6	1,100.6	2.4	1.9	-105.13	154.1	436.7	475.1	470.8	4.25	111.689		
1,300.0	1,297.2	1,200.2	1,200.2	2.6	2.1	-106.21	154.1	436.7	477.6	473.0	4.65	102.660		
1,400.0	1,396.7	1,299.7	1,299.7	2.8	2.3	-107.28	154.1	436.7	480.3	475.3	5.05	95.091		
1,500.0	1,496.3	1,399.3	1,399.3	3.0	2.4	-108.34	154.1	436.7	483.2	477.8	5.45	88.668		
1,600.0	1,595.9	1,498.9	1,498.9	3.3	2.6	-109.38	154.1	436.7	486.3	480.4	5.85	83.157		
1,700.0	1,695.4	1,598.4	1,598.4	3.5	2.8	-110.41	154.1	436.7	489.5	483.2	6.24	78.386		
1,800.0	1,795.0	1,698.0	1,698.0	3.8	3.0	-111.43	154.1	436.7	492.8	486.2	6.64	74.220		
1,900.0	1,894.5	1,797.5	1,797.5	4.0	3.1	-112.43	154.1	436.7	496.3	489.3	7.03	70.556		
7,500.0	7,331.6	7,234.6	7,234.6	13.7	12.6	63.95	154.1	436.7	491.7	466.9	24.83	19.804		
7,600.0	7,362.8	7,265.8	7,265.8	13.6	12.7	78.05	154.1	436.7	422.2	396.5	25.75	16.395		
7,700.0	7,377.1	7,280.1	7,280.1	13.6	12.7	88.07	154.1	436.7	362.6	336.4	26.12	13.881		
7,800.0	7,378.0	7,281.0	7,281.0	13.9	12.7	90.00	154.1	436.7	322.7	296.3	26.39	12.228		
7,886.6	7,378.0	7,281.0	7,281.0	14.3	12.7	90.00	154.1	436.7	310.8	284.0	26.80	11.598	CC, ES	
7,900.0	7,378.0	7,281.0	7,281.0	14.3	12.7	90.00	154.1	436.7	311.1	284.3	26.86	11.581	SF	
8,000.0	7,378.0	7,281.0	7,281.0	15.0	12.7	90.00	154.1	436.7	330.9	303.3	27.53	12.017		
8,100.0	7,378.0	7,281.0	7,281.0	15.8	12.7	90.00	154.1	436.7	377.0	348.7	28.37	13.289		
8,200.0	7,378.0	7,281.0	7,281.0	16.8	12.7	90.00	154.1	436.7	441.4	412.1	29.36	15.037		

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 3N-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 3N-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													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	66.63	185.4	429.2	467.5						
100.0	100.0	105.0	105.0	0.2	0.2	66.47	186.4	428.2	467.0	466.7	0.31	1,510.348			
123.8	123.8	126.9	126.8	0.2	0.2	66.42	186.8	428.0	466.9	466.5	0.39	1,198.022	CC, ES		
200.0	200.0	196.1	196.0	0.3	0.3	66.21	188.6	427.7	467.5	466.9	0.65	721.884			
300.0	300.0	283.6	283.4	0.5	0.5	65.85	192.3	428.8	470.3	469.3	0.99	477.192			
400.0	400.0	367.1	366.8	0.7	0.7	-103.30	197.6	431.6	476.3	475.0	1.32	361.644			
500.0	500.0	456.7	455.9	0.9	0.9	-104.00	204.8	436.9	485.7	484.0	1.67	291.497			
600.0	599.9	544.6	543.2	1.0	1.1	-104.80	212.7	443.6	497.6	495.6	2.02	246.461	SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-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 3N-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													Offset Site Error:	0.0 ft	
Survey Program: 60-MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File) - RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SURVEYS															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	3.1	3.1	0.0	0.0	69.00	167.6	436.4	467.5						
100.0	100.0	104.9	104.9	0.2	0.2	69.06	167.0	436.3	467.2	466.9	0.31	1,519.013			
191.5	191.5	194.6	194.5	0.3	0.3	69.27	165.2	436.6	466.9	466.2	0.63	744.494 CC			
200.0	200.0	202.2	202.2	0.3	0.3	69.30	165.0	436.7	466.9	466.2	0.66	711.890 ES			
300.0	300.0	298.7	298.5	0.5	0.5	69.90	160.6	438.9	467.4	466.3	1.01	460.607			
400.0	400.0	391.7	391.2	0.7	0.7	-97.91	153.8	442.8	469.0	467.6	1.39	336.740			
500.0	500.0	483.8	482.7	0.9	0.9	-96.96	145.5	449.2	473.0	471.2	1.79	263.582			
600.0	599.9	581.7	579.8	1.0	1.2	-95.98	135.5	457.1	478.1	475.9	2.24	213.705			
700.0	699.7	686.4	683.5	1.2	1.5	-95.04	123.7	465.6	483.2	480.5	2.72	177.664			
800.0	799.4	790.3	786.4	1.4	1.8	-94.43	112.4	473.0	487.7	484.5	3.21	151.924			
900.0	898.9	889.4	884.7	1.7	2.1	-93.99	101.0	479.5	491.7	488.0	3.71	132.462			
1,000.0	998.5	984.4	978.7	1.9	2.4	-93.47	89.1	486.7	496.3	492.1	4.22	117.598 SF			

Anticollision Report

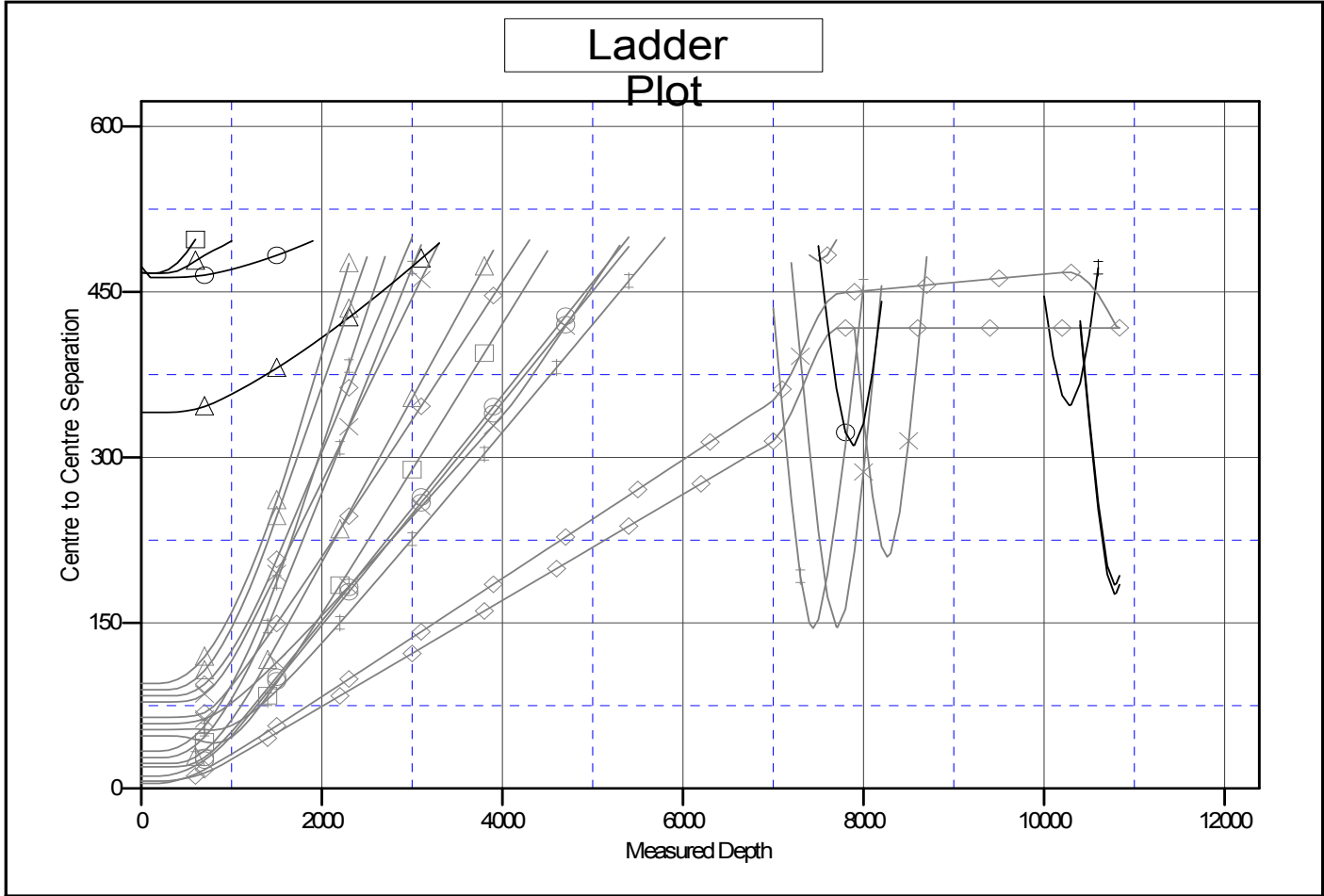
Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3N-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3N-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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
7,900.0	7,378.0	7,493.6	7,340.2	14.3	21.2	90.58	525.2	340.9	417.4	387.7	29.64	14.084			
8,000.0	7,378.0	7,506.7	7,352.8	15.0	21.3	94.00	527.0	337.9	335.4	305.1	30.33	11.058			
8,100.0	7,378.0	7,519.2	7,364.9	15.8	21.3	97.34	528.6	335.0	265.4	234.3	31.11	8.530			
8,200.0	7,378.0	7,531.2	7,376.5	16.8	21.4	100.55	530.1	332.4	219.2	187.2	31.95	6.860			
8,263.5	7,378.0	7,538.5	7,383.5	17.5	21.4	102.53	531.0	330.8	209.9	177.4	32.52	6.455	CC, ES, SF		
8,300.0	7,378.0	7,542.6	7,387.5	17.9	21.4	103.64	531.5	329.9	213.0	180.2	32.83	6.488			
8,400.0	7,378.0	7,553.5	7,398.1	19.1	21.5	106.58	532.9	327.6	249.9	216.1	33.72	7.409			
8,500.0	7,378.0	7,563.9	7,408.2	20.4	21.5	109.37	534.1	325.5	315.0	280.4	34.61	9.101			
8,600.0	7,378.0	7,573.8	7,417.8	21.7	21.6	112.00	535.3	323.5	394.7	359.2	35.49	11.123			
8,700.0	7,378.0	7,583.4	7,427.1	23.1	21.6	114.48	536.3	321.6	481.8	445.5	36.34	13.259			

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well File 3N-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 3N-32H-K268	Survey Calculation Method: Minimum Curvature	
Well Error: 0.0ft	Output errors are at 2.00 sigma	
Reference Wellbore Hz	Database: USA EDM 5000 Multi Users DB	
Reference Design: Plan #1	Offset TVD Reference: Offset Datum	

Reference Depths are relative to WELL @ 4971.0ft (Original Well Elev) Coordinates are relative to: File 3N-32H-K268
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.30°



LEGEND

- | | | |
|-------------------------------|---|------------------------------------|
| 3), ENCANA WELL, NOSURVEYS V0 | ✕ File 3D-32H-K268, Hz, Plan #1 V0 | ⊙ RAY NELSON 23-32 (EXISTING) |
| WELL, Plan #1 V1 | ▲ File 3K-32H-K268, Hz, Plan #1 V0 | ⊠ ANDERSON 22-32 ENC (EXISTING) |
| NA WELL, SURVEYS V0 | ▲ NELSON 4 (EXISTING), TEXAS TEA WELL, NOSURVEYS V0 | ◆ File 3M-32H-K268, Hz, Plan #1 V0 |
| | ◆ File 3O-32H-K268, Hz, Plan #1 V0 | ▲ File 3B-32H-K268, Hz, Plan #1 V0 |
| | ⊙ File 3P-32H-K268, Hz, Plan #1 V0 | ▲ File 3A-32H-K268, Hz, Plan #1 V0 |
| | ⊠ RAY NELSON 4-4-32 (EXISTING), ENCANA WELL, SURVEYS V0 | ⊙ File 3I-32H-K268, Hz, Plan #1 V0 |
| | ⊠ ANDERSON 21-32 (EXISTING), ENCANA WELL, NOSURVEYS V0 | ⊠ File 3H-32H-K268, Hz, Plan #1 V0 |
| | ⊠ File 3G-32H-K268, Hz, Plan #1 V0 | |

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