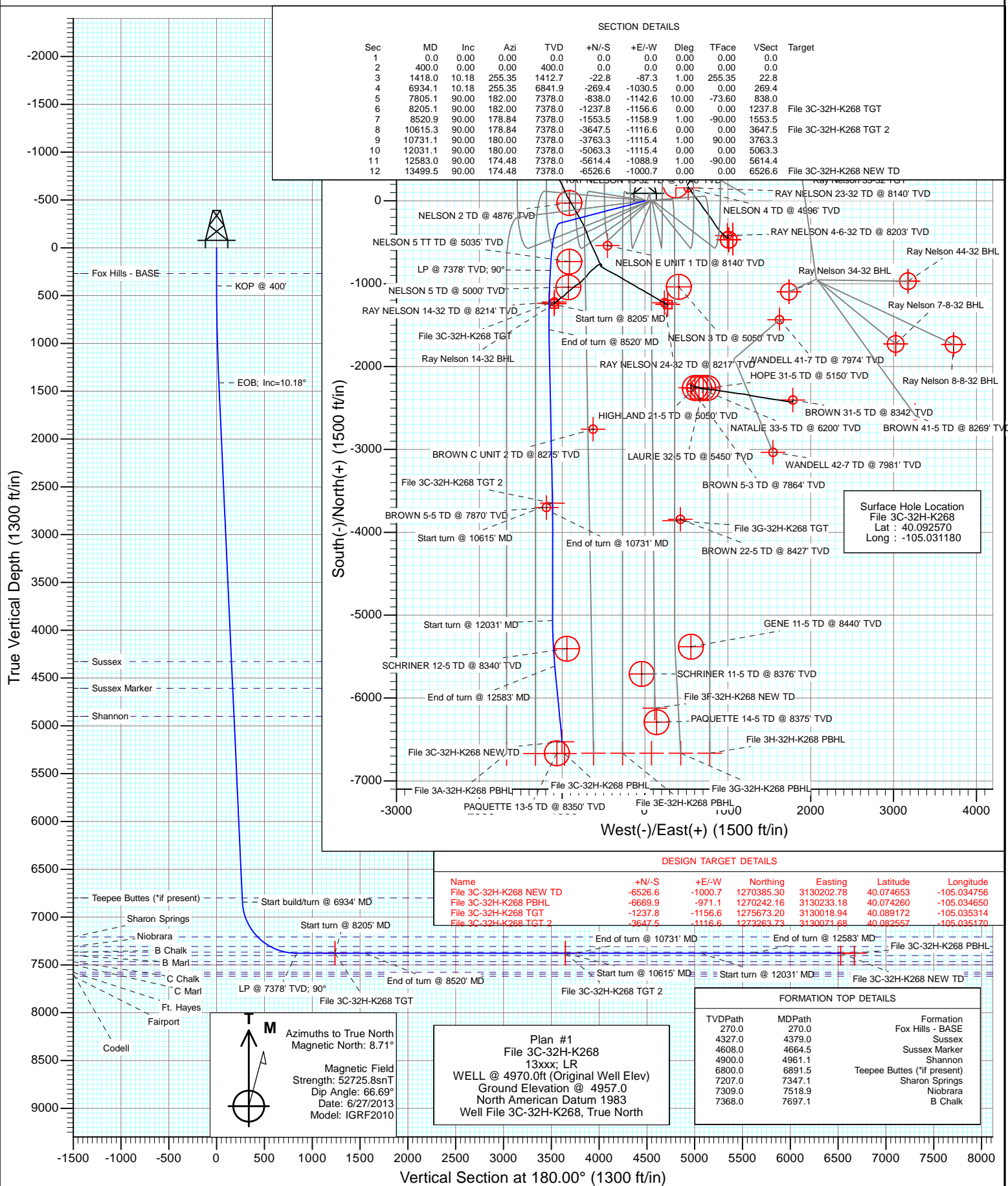




Project: DJ Wattenberg
Site: S32-T2N-R68W (File)
Well: File 3C-32H-K268
Wellbore: Hz
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3C-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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

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

Well	File 3C-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,917.10 ft	Latitude:	40.092570
	+E/-W	0.0 ft	Easting:	3,131,168.98 ft	Longitude:	-105.031180
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,957.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/27/2013	8.71	66.69	52,726

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	180.00

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,418.0	10.18	255.35	1,412.7	-22.8	-87.3	1.00	1.00	0.00	255.35	
6,934.1	10.18	255.35	6,841.9	-269.4	-1,030.5	0.00	0.00	0.00	0.00	
7,805.1	90.00	182.00	7,378.0	-838.0	-1,142.6	10.00	9.16	-8.42	-73.60	
8,205.1	90.00	182.00	7,378.0	-1,237.8	-1,156.6	0.00	0.00	0.00	0.00	File 3C-32H-K268 TG
8,520.9	90.00	178.84	7,378.0	-1,553.5	-1,158.9	1.00	0.00	-1.00	-90.00	
10,615.3	90.00	178.84	7,378.0	-3,647.5	-1,116.6	0.00	0.00	0.00	0.00	File 3C-32H-K268 TG
10,731.1	90.00	180.00	7,378.0	-3,763.3	-1,115.4	1.00	0.00	1.00	90.00	
12,031.1	90.00	180.00	7,378.0	-5,063.3	-1,115.4	0.00	0.00	0.00	0.00	
12,583.0	90.00	174.48	7,378.0	-5,614.4	-1,088.9	1.00	0.00	-1.00	-90.00	
13,499.5	90.00	174.48	7,378.0	-6,526.6	-1,000.7	0.00	0.00	0.00	0.00	File 3C-32H-K268 NE

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3C-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
270.0	0.00	0.00	270.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	1.00	255.35	500.0	-0.2	-0.8	0.2	1.00	1.00	
600.0	2.00	255.35	600.0	-0.9	-3.4	0.9	1.00	1.00	
700.0	3.00	255.35	699.9	-2.0	-7.6	2.0	1.00	1.00	
800.0	4.00	255.35	799.7	-3.5	-13.5	3.5	1.00	1.00	
900.0	5.00	255.35	899.4	-5.5	-21.1	5.5	1.00	1.00	
1,000.0	6.00	255.35	998.9	-7.9	-30.4	7.9	1.00	1.00	
1,100.0	7.00	255.35	1,098.3	-10.8	-41.3	10.8	1.00	1.00	
1,200.0	8.00	255.35	1,197.4	-14.1	-53.9	14.1	1.00	1.00	
1,300.0	9.00	255.35	1,296.3	-17.8	-68.2	17.8	1.00	1.00	
1,400.0	10.00	255.35	1,394.9	-22.0	-84.2	22.0	1.00	1.00	
1,418.0	10.18	255.35	1,412.7	-22.8	-87.3	22.8	1.00	1.00	EOB; Inc=10.18°
1,500.0	10.18	255.35	1,493.4	-26.5	-101.3	26.5	0.00	0.00	
1,600.0	10.18	255.35	1,591.8	-30.9	-118.4	30.9	0.00	0.00	
1,700.0	10.18	255.35	1,690.2	-35.4	-135.5	35.4	0.00	0.00	
1,800.0	10.18	255.35	1,788.6	-39.9	-152.6	39.9	0.00	0.00	
1,900.0	10.18	255.35	1,887.1	-44.4	-169.7	44.4	0.00	0.00	
2,000.0	10.18	255.35	1,985.5	-48.8	-186.8	48.8	0.00	0.00	
2,100.0	10.18	255.35	2,083.9	-53.3	-203.9	53.3	0.00	0.00	
2,200.0	10.18	255.35	2,182.3	-57.8	-221.0	57.8	0.00	0.00	
2,300.0	10.18	255.35	2,280.8	-62.2	-238.1	62.2	0.00	0.00	
2,400.0	10.18	255.35	2,379.2	-66.7	-255.2	66.7	0.00	0.00	
2,500.0	10.18	255.35	2,477.6	-71.2	-272.3	71.2	0.00	0.00	
2,600.0	10.18	255.35	2,576.0	-75.6	-289.4	75.6	0.00	0.00	
2,700.0	10.18	255.35	2,674.5	-80.1	-306.5	80.1	0.00	0.00	
2,800.0	10.18	255.35	2,772.9	-84.6	-323.6	84.6	0.00	0.00	
2,900.0	10.18	255.35	2,871.3	-89.1	-340.7	89.1	0.00	0.00	
3,000.0	10.18	255.35	2,969.7	-93.5	-357.8	93.5	0.00	0.00	
3,100.0	10.18	255.35	3,068.2	-98.0	-374.9	98.0	0.00	0.00	
3,200.0	10.18	255.35	3,166.6	-102.5	-392.0	102.5	0.00	0.00	
3,300.0	10.18	255.35	3,265.0	-106.9	-409.1	106.9	0.00	0.00	
3,400.0	10.18	255.35	3,363.5	-111.4	-426.2	111.4	0.00	0.00	
3,500.0	10.18	255.35	3,461.9	-115.9	-443.3	115.9	0.00	0.00	
3,600.0	10.18	255.35	3,560.3	-120.3	-460.4	120.3	0.00	0.00	
3,700.0	10.18	255.35	3,658.7	-124.8	-477.5	124.8	0.00	0.00	
3,800.0	10.18	255.35	3,757.2	-129.3	-494.6	129.3	0.00	0.00	
3,900.0	10.18	255.35	3,855.6	-133.8	-511.7	133.8	0.00	0.00	
4,000.0	10.18	255.35	3,954.0	-138.2	-528.8	138.2	0.00	0.00	
4,100.0	10.18	255.35	4,052.4	-142.7	-545.9	142.7	0.00	0.00	
4,200.0	10.18	255.35	4,150.9	-147.2	-563.0	147.2	0.00	0.00	
4,300.0	10.18	255.35	4,249.3	-151.6	-580.1	151.6	0.00	0.00	
4,379.0	10.18	255.35	4,327.0	-155.2	-593.6	155.2	0.00	0.00	Sussex
4,400.0	10.18	255.35	4,347.7	-156.1	-597.2	156.1	0.00	0.00	
4,500.0	10.18	255.35	4,446.1	-160.6	-614.3	160.6	0.00	0.00	
4,600.0	10.18	255.35	4,544.6	-165.1	-631.4	165.1	0.00	0.00	
4,664.5	10.18	255.35	4,608.0	-167.9	-642.4	167.9	0.00	0.00	Sussex Marker
4,700.0	10.18	255.35	4,643.0	-169.5	-648.5	169.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3C-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3C-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	10.18	255.35	4,741.4	-174.0	-665.6	174.0	0.00	0.00	
4,900.0	10.18	255.35	4,839.8	-178.5	-682.7	178.5	0.00	0.00	
4,961.1	10.18	255.35	4,900.0	-181.2	-693.1	181.2	0.00	0.00	Shannon
5,000.0	10.18	255.35	4,938.3	-182.9	-699.8	182.9	0.00	0.00	
5,100.0	10.18	255.35	5,036.7	-187.4	-716.9	187.4	0.00	0.00	
5,200.0	10.18	255.35	5,135.1	-191.9	-734.0	191.9	0.00	0.00	
5,300.0	10.18	255.35	5,233.5	-196.3	-751.1	196.3	0.00	0.00	
5,400.0	10.18	255.35	5,332.0	-200.8	-768.2	200.8	0.00	0.00	
5,500.0	10.18	255.35	5,430.4	-205.3	-785.3	205.3	0.00	0.00	
5,600.0	10.18	255.35	5,528.8	-209.8	-802.4	209.8	0.00	0.00	
5,700.0	10.18	255.35	5,627.2	-214.2	-819.5	214.2	0.00	0.00	
5,800.0	10.18	255.35	5,725.7	-218.7	-836.6	218.7	0.00	0.00	
5,900.0	10.18	255.35	5,824.1	-223.2	-853.7	223.2	0.00	0.00	
6,000.0	10.18	255.35	5,922.5	-227.6	-870.8	227.6	0.00	0.00	
6,100.0	10.18	255.35	6,020.9	-232.1	-887.9	232.1	0.00	0.00	
6,200.0	10.18	255.35	6,119.4	-236.6	-905.0	236.6	0.00	0.00	
6,300.0	10.18	255.35	6,217.8	-241.0	-922.1	241.0	0.00	0.00	
6,400.0	10.18	255.35	6,316.2	-245.5	-939.2	245.5	0.00	0.00	
6,500.0	10.18	255.35	6,414.6	-250.0	-956.3	250.0	0.00	0.00	
6,600.0	10.18	255.35	6,513.1	-254.5	-973.4	254.5	0.00	0.00	
6,700.0	10.18	255.35	6,611.5	-258.9	-990.5	258.9	0.00	0.00	
6,800.0	10.18	255.35	6,709.9	-263.4	-1,007.6	263.4	0.00	0.00	
6,891.5	10.18	255.35	6,800.0	-267.5	-1,023.2	267.5	0.00	0.00	Teepee Buttes (*if present)
6,900.0	10.18	255.35	6,808.4	-267.9	-1,024.7	267.9	0.00	0.00	
6,934.1	10.18	255.35	6,841.9	-269.4	-1,030.5	269.4	0.00	0.00	Start build/turn @ 6934' MD
7,000.0	13.58	227.40	6,906.4	-276.1	-1,041.8	276.1	10.00	5.16	
7,100.0	21.71	207.60	7,001.7	-300.5	-1,059.1	300.5	10.00	8.13	
7,200.0	30.93	198.69	7,091.3	-341.3	-1,075.9	341.3	10.00	9.21	
7,300.0	40.49	193.63	7,172.4	-397.4	-1,091.9	397.4	10.00	9.56	
7,347.1	45.05	191.89	7,207.0	-428.6	-1,098.9	428.6	10.00	9.68	Sharon Springs
7,400.0	50.20	190.24	7,242.7	-466.9	-1,106.4	466.9	10.00	9.73	
7,500.0	59.98	187.71	7,299.8	-547.8	-1,119.0	547.8	10.00	9.78	
7,518.9	61.83	187.29	7,309.0	-564.2	-1,121.2	564.2	10.00	9.81	Niobrara
7,600.0	69.80	185.63	7,342.2	-637.6	-1,129.5	637.6	10.00	9.83	
7,697.1	79.36	183.85	7,368.0	-730.8	-1,137.2	730.8	10.00	9.84	B Chalk
7,700.0	79.64	183.80	7,368.5	-733.7	-1,137.4	733.7	10.00	9.85	
7,800.0	89.50	182.09	7,378.0	-833.0	-1,142.5	833.0	10.00	9.85	
7,805.1	90.00	182.00	7,378.0	-838.0	-1,142.6	838.0	10.00	9.86	LP @ 7378' TVD; 90°
7,900.0	90.00	182.00	7,378.0	-932.9	-1,146.0	932.9	0.00	0.00	
8,000.0	90.00	182.00	7,378.0	-1,032.8	-1,149.4	1,032.8	0.00	0.00	
8,100.0	90.00	182.00	7,378.0	-1,132.8	-1,152.9	1,132.8	0.00	0.00	
8,200.0	90.00	182.00	7,378.0	-1,232.7	-1,156.4	1,232.7	0.00	0.00	
8,205.1	90.00	182.00	7,378.0	-1,237.8	-1,156.6	1,237.8	0.00	0.00	Start turn @ 8205' MD
8,300.0	90.00	181.05	7,378.0	-1,332.7	-1,159.1	1,332.7	1.00	0.00	
8,400.0	90.00	180.05	7,378.0	-1,432.7	-1,160.1	1,432.7	1.00	0.00	
8,500.0	90.00	179.05	7,378.0	-1,532.7	-1,159.3	1,532.7	1.00	0.00	
8,520.9	90.00	178.84	7,378.0	-1,553.5	-1,158.9	1,553.5	1.00	0.00	End of turn @ 8520' MD
8,600.0	90.00	178.84	7,378.0	-1,632.6	-1,157.3	1,632.6	0.00	0.00	
8,700.0	90.00	178.84	7,378.0	-1,732.6	-1,155.3	1,732.6	0.00	0.00	
8,800.0	90.00	178.84	7,378.0	-1,832.6	-1,153.3	1,832.6	0.00	0.00	
8,900.0	90.00	178.84	7,378.0	-1,932.6	-1,151.3	1,932.6	0.00	0.00	
9,000.0	90.00	178.84	7,378.0	-2,032.6	-1,149.2	2,032.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3C-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3C-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
9,100.0	90.00	178.84	7,378.0	-2,132.5	-1,147.2	2,132.5	0.00	0.00	
9,200.0	90.00	178.84	7,378.0	-2,232.5	-1,145.2	2,232.5	0.00	0.00	
9,300.0	90.00	178.84	7,378.0	-2,332.5	-1,143.2	2,332.5	0.00	0.00	
9,400.0	90.00	178.84	7,378.0	-2,432.5	-1,141.2	2,432.5	0.00	0.00	
9,500.0	90.00	178.84	7,378.0	-2,532.5	-1,139.1	2,532.5	0.00	0.00	
9,600.0	90.00	178.84	7,378.0	-2,632.4	-1,137.1	2,632.4	0.00	0.00	
9,700.0	90.00	178.84	7,378.0	-2,732.4	-1,135.1	2,732.4	0.00	0.00	
9,800.0	90.00	178.84	7,378.0	-2,832.4	-1,133.1	2,832.4	0.00	0.00	
9,900.0	90.00	178.84	7,378.0	-2,932.4	-1,131.1	2,932.4	0.00	0.00	
10,000.0	90.00	178.84	7,378.0	-3,032.4	-1,129.0	3,032.4	0.00	0.00	
10,100.0	90.00	178.84	7,378.0	-3,132.3	-1,127.0	3,132.3	0.00	0.00	
10,200.0	90.00	178.84	7,378.0	-3,232.3	-1,125.0	3,232.3	0.00	0.00	
10,300.0	90.00	178.84	7,378.0	-3,332.3	-1,123.0	3,332.3	0.00	0.00	
10,400.0	90.00	178.84	7,378.0	-3,432.3	-1,121.0	3,432.3	0.00	0.00	
10,500.0	90.00	178.84	7,378.0	-3,532.3	-1,118.9	3,532.3	0.00	0.00	
10,600.0	90.00	178.84	7,378.0	-3,632.2	-1,116.9	3,632.2	0.00	0.00	
10,615.3	90.00	178.84	7,378.0	-3,647.5	-1,116.6	3,647.5	0.00	0.00	Start turn @ 10615' MD
10,700.0	90.00	179.69	7,378.0	-3,732.2	-1,115.5	3,732.2	1.00	0.00	
10,731.1	90.00	180.00	7,378.0	-3,763.3	-1,115.4	3,763.3	1.00	0.00	End of turn @ 10731' MD
10,800.0	90.00	180.00	7,378.0	-3,832.2	-1,115.4	3,832.2	0.00	0.00	
10,900.0	90.00	180.00	7,378.0	-3,932.2	-1,115.4	3,932.2	0.00	0.00	
11,000.0	90.00	180.00	7,378.0	-4,032.2	-1,115.4	4,032.2	0.00	0.00	
11,100.0	90.00	180.00	7,378.0	-4,132.2	-1,115.4	4,132.2	0.00	0.00	
11,200.0	90.00	180.00	7,378.0	-4,232.2	-1,115.4	4,232.2	0.00	0.00	
11,300.0	90.00	180.00	7,378.0	-4,332.2	-1,115.4	4,332.2	0.00	0.00	
11,400.0	90.00	180.00	7,378.0	-4,432.2	-1,115.4	4,432.2	0.00	0.00	
11,500.0	90.00	180.00	7,378.0	-4,532.2	-1,115.4	4,532.2	0.00	0.00	
11,600.0	90.00	180.00	7,378.0	-4,632.2	-1,115.4	4,632.2	0.00	0.00	
11,700.0	90.00	180.00	7,378.0	-4,732.2	-1,115.4	4,732.2	0.00	0.00	
11,800.0	90.00	180.00	7,378.0	-4,832.2	-1,115.4	4,832.2	0.00	0.00	
11,900.0	90.00	180.00	7,378.0	-4,932.2	-1,115.4	4,932.2	0.00	0.00	
12,000.0	90.00	180.00	7,378.0	-5,032.2	-1,115.4	5,032.2	0.00	0.00	
12,031.1	90.00	180.00	7,378.0	-5,063.3	-1,115.4	5,063.3	0.00	0.00	Start turn @ 12031' MD
12,100.0	90.00	179.31	7,378.0	-5,132.2	-1,115.0	5,132.2	1.00	0.00	
12,200.0	90.00	178.31	7,378.0	-5,232.2	-1,112.9	5,232.2	1.00	0.00	
12,300.0	90.00	177.31	7,378.0	-5,332.1	-1,109.1	5,332.1	1.00	0.00	
12,400.0	90.00	176.31	7,378.0	-5,432.0	-1,103.6	5,432.0	1.00	0.00	
12,500.0	90.00	175.31	7,378.0	-5,531.7	-1,096.3	5,531.7	1.00	0.00	
12,583.0	90.00	174.48	7,378.0	-5,614.4	-1,088.9	5,614.4	1.00	0.00	End of turn @ 12583' MD
12,600.0	90.00	174.48	7,378.0	-5,631.3	-1,087.2	5,631.3	0.00	0.00	
12,700.0	90.00	174.48	7,378.0	-5,730.8	-1,077.6	5,730.8	0.00	0.00	
12,800.0	90.00	174.48	7,378.0	-5,830.4	-1,068.0	5,830.4	0.00	0.00	
12,900.0	90.00	174.48	7,378.0	-5,929.9	-1,058.4	5,929.9	0.00	0.00	
13,000.0	90.00	174.48	7,378.0	-6,029.4	-1,048.8	6,029.4	0.00	0.00	
13,100.0	90.00	174.48	7,378.0	-6,129.0	-1,039.1	6,129.0	0.00	0.00	
13,200.0	90.00	174.48	7,378.0	-6,228.5	-1,029.5	6,228.5	0.00	0.00	
13,300.0	90.00	174.48	7,378.0	-6,328.0	-1,019.9	6,328.0	0.00	0.00	
13,400.0	90.00	174.48	7,378.0	-6,427.6	-1,010.3	6,427.6	0.00	0.00	
13,499.5	90.00	174.48	7,378.0	-6,526.6	-1,000.7	6,526.6	0.00	0.00	TD at 13499.5

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3C-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
File 3C-32H-K268 PBHL	0.00	0.00	7,378.0	-6,669.9	-971.1	1,270,242.16	3,130,233.18	40.074260	-105.034650
- plan misses target center by 146.3ft at 13499.5ft MD (7378.0 TVD, -6526.6 N, -1000.7 E)									
- Circle (radius 0.0)									
File 3C-32H-K268 NEW	0.00	0.00	7,378.0	-6,526.6	-1,000.7	1,270,385.30	3,130,202.78	40.074653	-105.034756
- plan hits target center									
- Point									
File 3C-32H-K268 TGT	0.00	0.00	7,378.0	-1,237.8	-1,156.6	1,275,673.20	3,130,018.94	40.089172	-105.035314
- plan hits target center									
- Point									
File 3C-32H-K268 TGT 1	0.00	0.00	7,378.0	-3,647.5	-1,116.6	1,273,263.73	3,130,071.68	40.082557	-105.035170
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
270.0	270.0	Fox Hills - BASE				
4,379.0	4,327.0	Sussex				
4,664.5	4,608.0	Sussex Marker				
4,961.1	4,900.0	Shannon				
6,891.5	6,800.0	Teepee Buttes (*if present)				
7,347.1	7,207.0	Sharon Springs				
7,518.9	7,309.0	Niobrara				
7,697.1	7,368.0	B Chalk				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400'
1,418.0	1,412.7	-22.8	-87.3	EOB; Inc=10.18°
6,934.1	6,841.9	-269.4	-1,030.5	Start build/turn @ 6934' MD
7,805.1	7,378.0	-838.0	-1,142.6	LP @ 7378' TVD; 90°
8,205.1	7,378.0	-1,237.8	-1,156.6	Start turn @ 8205' MD
8,520.9	7,378.0	-1,553.5	-1,158.9	End of turn @ 8520' MD
10,615.3	7,378.0	-3,647.5	-1,116.6	Start turn @ 10615' MD
10,731.1	7,378.0	-3,763.3	-1,115.4	End of turn @ 10731' MD
12,031.1	7,378.0	-5,063.3	-1,115.4	Start turn @ 12031' MD
12,583.0	7,378.0	-5,614.4	-1,088.9	End of turn @ 12583' MD
13,499.5	7,378.0	-6,526.6	-1,000.7	TD at 13499.5

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3C-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-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	13,498.7	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-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)	Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - Plan #2						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE	10,666.6	7,427.0	73.9	-6.5	0.919	Level 1, CC, ES, SF
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						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	200.0	11.2	10.5	17.144	CC, ES
File 3A-32H-K268 - Hz - Plan #1	1,400.0	1,393.3	51.2	46.2	10.312	SF
File 3B-32H-K268 - Hz - Plan #1	300.0	300.0	6.7	5.7	6.667	CC, ES
File 3B-32H-K268 - Hz - Plan #1	13,499.5	14,127.2	393.1	205.4	2.094	SF
File 3D-32H-K268 - Hz - Plan #1	400.0	400.0	6.7	5.3	4.943	CC, ES
File 3D-32H-K268 - Hz - Plan #1	13,499.5	14,031.7	442.7	244.1	2.230	SF
File 3E-32H-K268 - Hz - Plan #1	400.0	401.0	19.6	18.2	14.479	CC, ES
File 3E-32H-K268 - Hz - Plan #1	800.0	801.6	30.2	27.5	11.004	SF
File 3F-32H-K268 - Hz - Plan #1	400.0	401.0	25.4	24.1	18.809	CC, ES
File 3F-32H-K268 - Hz - Plan #1	700.0	700.9	33.3	30.9	13.869	SF
File 3G-32H-K268 - Hz - Plan #1	366.3	367.3	30.8	29.5	24.917	CC
File 3G-32H-K268 - Hz - Plan #1	400.0	401.0	30.8	29.4	22.752	ES
File 3G-32H-K268 - Hz - Plan #1	600.0	600.0	37.5	35.5	18.329	SF
File 3H-32H-K268 - Hz - Plan #1	332.0	333.0	36.6	35.4	32.778	CC
File 3H-32H-K268 - Hz - Plan #1	400.0	400.7	36.8	35.4	27.200	ES
File 3H-32H-K268 - Hz - Plan #1	600.0	599.1	45.5	43.4	22.210	SF
File 3I-32H-K268 - Hz - Plan #1	1,251.4	1,257.5	28.8	23.7	5.592	CC
File 3I-32H-K268 - Hz - Plan #1	1,400.0	1,406.3	29.7	23.4	4.736	ES
File 3I-32H-K268 - Hz - Plan #1	1,600.0	1,606.0	33.3	25.4	4.229	SF
File 3J-32H-K268 - Hz - Plan #1	1,136.2	1,143.3	42.9	38.7	10.097	CC
File 3J-32H-K268 - Hz - Plan #1	7,339.1	7,364.7	56.6	26.8	1.897	ES, SF
File 3K-32H-K268 - Hz - Plan #1	657.0	660.7	60.4	58.1	26.700	CC
File 3K-32H-K268 - Hz - Plan #1	800.0	804.8	60.7	58.0	21.847	ES
File 3K-32H-K268 - Hz - Plan #1	7,428.2	7,402.9	314.3	282.2	9.777	SF
File 3L-32H-K268 - Hz - Plan #1	402.6	403.6	64.5	63.1	47.331	CC
File 3L-32H-K268 - Hz - Plan #1	500.0	501.8	64.7	63.0	37.973	ES
File 3L-32H-K268 - Hz - Plan #1	5,300.0	5,284.6	495.4	468.9	18.693	SF
File 3M-32H-K268 - Hz - Plan #1	476.0	478.1	79.6	78.0	48.692	CC
File 3M-32H-K268 - Hz - Plan #1	500.0	502.2	79.7	77.9	46.253	ES
File 3M-32H-K268 - Hz - Plan #1	1,200.0	1,200.3	123.1	118.5	26.786	SF
File 3N-32H-K268 - Hz - Plan #1	266.3	267.3	84.0	83.1	94.817	CC
File 3N-32H-K268 - Hz - Plan #1	400.0	400.8	84.2	82.8	62.227	ES
File 3N-32H-K268 - Hz - Plan #1	1,100.0	1,095.6	139.3	135.3	34.835	SF
File 3O-32H-K268 - Hz - Plan #1	232.1	233.1	89.5	88.8	116.811	CC
File 3O-32H-K268 - Hz - Plan #1	300.0	300.5	89.7	88.7	89.415	ES
File 3O-32H-K268 - Hz - Plan #1	900.0	890.8	134.6	131.4	42.577	SF
File 3P-32H-K268 - Hz - Plan #1	166.3	167.3	95.2	94.7	177.279	CC
File 3P-32H-K268 - Hz - Plan #1	200.0	201.0	95.2	94.5	145.448	ES
File 3P-32H-K268 - Hz - Plan #1	900.0	886.7	150.4	147.2	48.012	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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-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	4,994.8	4,876.0	267.5	245.8	12.321	CC, ES
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	5,000.0	4,876.0	267.5	245.8	12.314	SF
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	400.0	400.0	415.9	414.5	303.157	CC, ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	1,300.0	1,296.3	485.1	480.7	108.010	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	4,155.1	4,096.7	408.0	388.2	20.670	CC
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	4,200.0	4,140.9	408.0	388.1	20.430	ES
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	5,100.0	5,026.7	440.8	416.9	18.420	SF
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N	13,499.5	7,409.0	153.5	26.0	1.203	Level 2, CC, ES, SF
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	4,050.9	4,050.8	335.9	314.8	15.935	CC, ES
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU	4,400.0	4,394.0	347.1	324.7	15.509	SF
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU	8,187.4	7,438.9	63.1	21.2	1.504	CC, ES, SF
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO						Out of range
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						Out of range
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU						Out of range
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	12,382.7	7,434.0	161.9	52.9	1.485	Level 3, CC, ES, SF
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-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) - BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 7870-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,200.0	7,378.0	7,427.0	7,427.0	62.9	13.0	90.00	-3,699.6	-1,189.8	471.7	399.5	72.19	6.535	
10,300.0	7,378.0	7,427.0	7,427.0	64.5	13.0	90.00	-3,699.6	-1,189.8	373.3	299.4	73.91	5.051	
10,400.0	7,378.0	7,427.0	7,427.0	66.1	13.0	90.00	-3,699.6	-1,189.8	276.0	200.4	75.63	3.650	
10,500.0	7,378.0	7,427.0	7,427.0	67.7	13.0	90.00	-3,699.6	-1,189.8	181.7	104.4	77.35	2.349	
10,600.0	7,378.0	7,427.0	7,427.0	69.4	13.0	90.00	-3,699.6	-1,189.8	99.2	20.1	79.07	1.255 Level 3	
10,666.6	7,378.0	7,427.0	7,427.0	70.5	13.0	90.00	-3,699.6	-1,189.8	73.9	-6.5	80.42	0.919 Level 1, CC, ES, SF	
10,700.0	7,378.0	7,427.0	7,427.0	71.0	13.0	90.00	-3,699.6	-1,189.8	81.1	0.0	81.09	1.000 Level 2	
10,800.0	7,378.0	7,427.0	7,427.0	72.7	13.0	90.00	-3,699.6	-1,189.8	152.1	69.1	82.92	1.834	
10,900.0	7,378.0	7,427.0	7,427.0	74.3	13.0	90.00	-3,699.6	-1,189.8	244.2	159.6	84.65	2.885	
11,000.0	7,378.0	7,427.0	7,427.0	76.0	13.0	90.00	-3,699.6	-1,189.8	340.9	254.5	86.38	3.946	
11,100.0	7,378.0	7,427.0	7,427.0	77.7	13.0	90.00	-3,699.6	-1,189.8	439.0	350.9	88.11	4.982	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3A-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-11.2	11.2	10.9	0.30	36.850		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	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	-90.51	-0.1	-12.1	12.1	11.1	1.00	12.028		
400.0	400.0	399.5	399.5	0.7	0.7	-91.73	-0.4	-14.6	14.7	13.3	1.36	10.809		
500.0	500.0	499.2	499.1	0.9	0.9	12.18	-1.0	-18.9	18.1	16.4	1.70	10.675		
600.0	600.0	598.8	598.5	1.0	1.1	12.25	-1.8	-24.9	21.6	19.6	2.05	10.571		
700.0	699.9	698.3	697.7	1.2	1.3	12.80	-2.8	-32.7	25.2	22.8	2.40	10.508		
800.0	799.7	797.8	796.7	1.4	1.5	13.64	-4.0	-42.1	28.7	26.0	2.75	10.468		
900.0	899.4	897.2	895.5	1.6	1.8	14.68	-5.4	-53.2	32.3	29.2	3.10	10.443		
1,000.0	998.9	996.5	994.0	1.8	2.0	15.85	-7.1	-66.0	36.0	32.5	3.45	10.425		
1,100.0	1,098.3	1,095.8	1,092.2	2.1	2.3	17.11	-9.0	-80.5	39.7	35.9	3.81	10.408		
1,200.0	1,197.4	1,195.0	1,190.0	2.3	2.7	18.44	-11.1	-96.7	43.4	39.3	4.18	10.387		
1,300.0	1,296.3	1,294.2	1,287.5	2.6	3.0	19.80	-13.4	-114.5	47.3	42.7	4.56	10.357		
1,400.0	1,394.9	1,393.3	1,384.7	2.9	3.4	21.20	-15.9	-134.0	51.2	46.2	4.96	10.312 SF		
1,500.0	1,493.4	1,492.3	1,481.3	3.3	3.8	22.39	-18.7	-155.1	55.7	50.3	5.38	10.356		
1,600.0	1,591.8	1,591.1	1,577.5	3.6	4.2	22.97	-21.6	-177.8	61.9	56.1	5.79	10.676		
1,700.0	1,690.2	1,690.1	1,673.4	3.9	4.7	23.07	-24.8	-202.2	69.6	63.4	6.21	11.212		
1,800.0	1,788.6	1,789.8	1,769.9	4.3	5.1	23.08	-28.0	-227.0	77.7	71.0	6.62	11.732		
1,900.0	1,887.1	1,889.5	1,866.4	4.6	5.6	23.09	-31.2	-251.8	85.7	78.7	7.04	12.187		
2,000.0	1,985.5	1,989.1	1,962.8	5.0	6.1	23.10	-34.4	-276.7	93.8	86.4	7.45	12.589		
2,100.0	2,083.9	2,088.8	2,059.3	5.3	6.5	23.10	-37.6	-301.5	101.9	94.0	7.87	12.947		
2,200.0	2,182.3	2,188.5	2,155.8	5.7	7.0	23.11	-40.9	-326.3	110.0	101.7	8.29	13.266		
2,300.0	2,280.8	2,288.2	2,252.3	6.0	7.5	23.11	-44.1	-351.2	118.0	109.3	8.71	13.554		
2,400.0	2,379.2	2,387.8	2,348.7	6.4	7.9	23.11	-47.3	-376.0	126.1	117.0	9.13	13.814		
2,500.0	2,477.6	2,487.5	2,445.2	6.7	8.4	23.12	-50.5	-400.9	134.2	124.6	9.55	14.050		
2,600.0	2,576.0	2,587.2	2,541.7	7.1	8.9	23.12	-53.7	-425.7	142.3	132.3	9.97	14.265		
2,700.0	2,674.5	2,686.9	2,638.2	7.4	9.4	23.12	-56.9	-450.5	150.3	139.9	10.40	14.462		
2,800.0	2,772.9	2,786.5	2,734.6	7.8	9.9	23.13	-60.2	-475.4	158.4	147.6	10.82	14.643		
2,900.0	2,871.3	2,886.2	2,831.1	8.1	10.3	23.13	-63.4	-500.2	166.5	155.3	11.24	14.809		
3,000.0	2,969.7	2,985.9	2,927.6	8.5	10.8	23.13	-66.6	-525.0	174.6	162.9	11.67	14.964		
3,100.0	3,068.2	3,085.5	3,024.1	8.8	11.3	23.13	-69.8	-549.9	182.6	170.6	12.09	15.107		
3,200.0	3,166.6	3,185.2	3,120.5	9.2	11.8	23.13	-73.0	-574.7	190.7	178.2	12.52	15.239		
3,300.0	3,265.0	3,284.9	3,217.0	9.5	12.2	23.13	-76.3	-599.5	198.8	185.9	12.94	15.363		
3,400.0	3,363.5	3,384.6	3,313.5	9.9	12.7	23.13	-79.5	-624.4	206.9	193.5	13.36	15.479		
3,500.0	3,461.9	3,484.2	3,410.0	10.3	13.2	23.14	-82.7	-649.2	214.9	201.2	13.79	15.587		
3,600.0	3,560.3	3,583.9	3,506.4	10.6	13.7	23.14	-85.9	-674.0	223.0	208.8	14.22	15.689		
3,700.0	3,658.7	3,683.6	3,602.9	11.0	14.2	23.14	-89.1	-698.9	231.1	216.5	14.64	15.784		
3,800.0	3,757.2	3,783.3	3,699.4	11.3	14.6	23.14	-92.4	-723.7	239.2	224.1	15.07	15.874		
3,900.0	3,855.6	3,882.9	3,795.9	11.7	15.1	23.14	-95.6	-748.6	247.3	231.8	15.49	15.959		
4,000.0	3,954.0	3,982.6	3,892.3	12.0	15.6	23.14	-98.8	-773.4	255.3	239.4	15.92	16.039		
4,100.0	4,052.4	4,082.3	3,988.8	12.4	16.1	23.14	-102.0	-798.2	263.4	247.1	16.34	16.115		
4,200.0	4,150.9	4,182.0	4,085.3	12.7	16.6	23.14	-105.2	-823.1	271.5	254.7	16.77	16.187		
4,300.0	4,249.3	4,281.6	4,181.8	13.1	17.0	23.14	-108.5	-847.9	279.6	262.4	17.20	16.255		
4,400.0	4,347.7	4,381.3	4,278.3	13.5	17.5	23.14	-111.7	-872.7	287.6	270.0	17.62	16.320		
4,500.0	4,446.1	4,481.0	4,374.7	13.8	18.0	23.14	-114.9	-897.6	295.7	277.7	18.05	16.382		
4,600.0	4,544.6	4,580.6	4,471.2	14.2	18.5	23.14	-118.1	-922.4	303.8	285.3	18.48	16.440		
4,700.0	4,643.0	4,680.3	4,567.7	14.5	19.0	23.15	-121.3	-947.2	311.9	292.9	18.90	16.496		
4,800.0	4,741.4	4,780.0	4,664.2	14.9	19.5	23.15	-124.6	-972.1	319.9	300.6	19.33	16.550		
4,900.0	4,839.8	4,879.7	4,760.6	15.2	19.9	23.15	-127.8	-996.9	328.0	308.2	19.76	16.601		
5,000.0	4,938.3	4,979.3	4,857.1	15.6	20.4	23.15	-131.0	-1,021.7	336.1	315.9	20.19	16.650		
5,100.0	5,036.7	5,079.0	4,953.6	16.0	20.9	23.15	-134.2	-1,046.6	344.2	323.5	20.61	16.697		

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

Anticollision Report

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Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3A-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,135.1	5,178.7	5,050.1	16.3	21.4	23.15	-137.4	-1,071.4	352.2	331.2	21.04	16.742		
5,300.0	5,233.5	5,278.4	5,146.5	16.7	21.9	23.15	-140.7	-1,096.3	360.3	338.8	21.47	16.785		
5,400.0	5,332.0	5,378.0	5,243.0	17.0	22.3	23.15	-143.9	-1,121.1	368.4	346.5	21.89	16.826		
5,500.0	5,430.4	5,477.7	5,339.5	17.4	22.8	23.15	-147.1	-1,145.9	376.5	354.1	22.32	16.866		
5,600.0	5,528.8	5,577.4	5,436.0	17.7	23.3	23.15	-150.3	-1,170.8	384.5	361.8	22.75	16.904		
5,700.0	5,627.2	5,677.1	5,532.4	18.1	23.8	23.15	-153.5	-1,195.6	392.6	369.4	23.18	16.940		
5,800.0	5,725.7	5,776.7	5,628.9	18.5	24.3	23.15	-156.8	-1,220.4	400.7	377.1	23.60	16.976		
5,900.0	5,824.1	5,876.4	5,725.4	18.8	24.8	23.15	-160.0	-1,245.3	408.8	384.7	24.03	17.010		
6,000.0	5,922.5	5,976.1	5,821.9	19.2	25.2	23.15	-163.2	-1,270.1	416.8	392.4	24.46	17.043		
6,100.0	6,020.9	6,075.7	5,918.3	19.5	25.7	23.15	-166.4	-1,294.9	424.9	400.0	24.89	17.074		
6,200.0	6,119.4	6,175.4	6,014.8	19.9	26.2	23.15	-169.6	-1,319.8	433.0	407.7	25.31	17.105		
6,300.0	6,217.8	6,275.1	6,111.3	20.2	26.7	23.15	-172.8	-1,344.6	441.1	415.3	25.74	17.135		
6,400.0	6,316.2	6,374.8	6,207.8	20.6	27.2	23.15	-176.1	-1,369.4	449.1	423.0	26.17	17.163		
6,500.0	6,414.6	6,474.4	6,304.2	21.0	27.6	23.15	-179.3	-1,394.3	457.2	430.6	26.60	17.191		
6,600.0	6,513.1	6,574.1	6,400.7	21.3	28.1	23.15	-182.5	-1,419.1	465.3	438.3	27.02	17.218		
6,700.0	6,611.5	6,673.8	6,497.2	21.7	28.6	23.15	-185.7	-1,444.0	473.4	445.9	27.45	17.244		
6,800.0	6,709.9	6,773.5	6,593.7	22.0	29.1	23.15	-188.9	-1,468.8	481.4	453.6	27.88	17.269		
6,900.0	6,808.4	6,873.1	6,690.2	22.4	29.6	23.15	-192.2	-1,493.6	489.5	461.2	28.31	17.293		
7,000.0	6,906.4	6,972.6	6,786.5	22.8	30.1	50.39	-195.4	-1,518.4	498.0	469.3	28.71	17.349		

Anticollision Report

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Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-56.90	3.6	-5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	-56.90	3.6	-5.6	6.7	6.4	0.30	21.993		
200.0	200.0	200.0	200.0	0.3	0.3	-56.90	3.6	-5.6	6.7	6.0	0.65	10.232		
300.0	300.0	300.0	300.0	0.5	0.5	-56.90	3.6	-5.6	6.7	5.7	1.00	6.667	CC, ES	
400.0	400.0	399.9	399.9	0.7	0.7	-60.02	3.7	-6.5	7.5	6.1	1.35	5.523		
500.0	500.0	499.7	499.7	0.9	0.9	41.66	4.0	-9.1	9.2	7.5	1.70	5.428		
600.0	600.0	599.5	599.4	1.0	1.0	42.30	4.4	-13.4	11.3	9.3	2.05	5.517		
700.0	699.9	699.3	699.0	1.2	1.2	44.86	4.9	-19.4	13.8	11.3	2.41	5.705		
800.0	799.7	799.0	798.4	1.4	1.4	48.32	5.7	-27.2	16.6	13.8	2.78	5.957		
900.0	899.4	898.7	897.6	1.6	1.7	52.09	6.6	-36.7	19.8	16.6	3.17	6.247		
1,000.0	998.9	998.3	996.6	1.8	1.9	55.82	7.6	-47.9	23.5	20.0	3.59	6.556		
1,100.0	1,098.3	1,097.9	1,095.3	2.1	2.2	59.34	8.8	-60.8	27.8	23.8	4.05	6.865		
1,200.0	1,197.4	1,197.3	1,193.7	2.3	2.5	62.56	10.2	-75.4	32.6	28.1	4.56	7.160		
1,300.0	1,296.3	1,296.7	1,291.7	2.6	2.8	65.45	11.7	-91.7	38.0	32.9	5.11	7.433		
1,400.0	1,394.9	1,396.1	1,389.4	2.9	3.1	68.04	13.4	-109.7	43.9	38.2	5.72	7.678		
1,500.0	1,493.4	1,495.8	1,487.3	3.3	3.5	70.36	15.1	-128.7	50.2	43.9	6.36	7.890		
1,600.0	1,591.8	1,595.6	1,585.2	3.6	3.9	72.20	16.9	-147.8	56.6	49.5	7.02	8.053		
1,700.0	1,690.2	1,695.4	1,683.1	3.9	4.2	73.66	18.7	-166.9	63.0	55.3	7.69	8.183		
1,800.0	1,788.6	1,795.1	1,781.0	4.3	4.6	74.85	20.5	-186.0	69.4	61.0	8.37	8.289		
1,900.0	1,887.1	1,894.9	1,879.0	4.6	5.0	75.84	22.3	-205.0	75.9	66.8	9.06	8.375		
2,000.0	1,985.5	1,994.7	1,976.9	5.0	5.3	76.68	24.0	-224.1	82.3	72.6	9.75	8.448		
2,100.0	2,083.9	2,094.5	2,074.8	5.3	5.7	77.39	25.8	-243.2	88.8	78.4	10.44	8.509		
2,200.0	2,182.3	2,194.3	2,172.7	5.7	6.1	78.01	27.6	-262.3	95.3	84.2	11.13	8.561		
2,300.0	2,280.8	2,294.1	2,270.7	6.0	6.4	78.54	29.4	-281.4	101.8	90.0	11.83	8.606		
2,400.0	2,379.2	2,393.8	2,368.6	6.4	6.8	79.01	31.2	-300.4	108.3	95.8	12.53	8.646		
2,500.0	2,477.6	2,493.6	2,466.5	6.7	7.2	79.43	32.9	-319.5	114.9	101.6	13.23	8.680		
2,600.0	2,576.0	2,593.4	2,564.4	7.1	7.6	79.81	34.7	-338.6	121.4	107.5	13.94	8.711		
2,700.0	2,674.5	2,693.2	2,662.4	7.4	8.0	80.14	36.5	-357.7	127.9	113.3	14.64	8.738		
2,800.0	2,772.9	2,793.0	2,760.3	7.8	8.3	80.45	38.3	-376.8	134.5	119.1	15.35	8.763		
2,900.0	2,871.3	2,892.8	2,858.2	8.1	8.7	80.72	40.1	-395.8	141.0	125.0	16.05	8.785		
3,000.0	2,969.7	2,992.5	2,956.2	8.5	9.1	80.97	41.8	-414.9	147.6	130.8	16.76	8.805		
3,100.0	3,068.2	3,092.3	3,054.1	8.8	9.5	81.20	43.6	-434.0	154.1	136.6	17.47	8.823		
3,200.0	3,166.6	3,192.1	3,152.0	9.2	9.8	81.41	45.4	-453.1	160.7	142.5	18.18	8.839		
3,300.0	3,265.0	3,291.9	3,249.9	9.5	10.2	81.60	47.2	-472.2	167.2	148.3	18.88	8.855		
3,400.0	3,363.5	3,391.7	3,347.9	9.9	10.6	81.78	49.0	-491.2	173.8	154.2	19.59	8.869		
3,500.0	3,461.9	3,491.5	3,445.8	10.3	11.0	81.95	50.7	-510.3	180.3	160.0	20.30	8.882		
3,600.0	3,560.3	3,591.2	3,543.7	10.6	11.4	82.10	52.5	-529.4	186.9	165.9	21.01	8.893		
3,700.0	3,658.7	3,691.0	3,641.6	11.0	11.7	82.25	54.3	-548.5	193.4	171.7	21.72	8.904		
3,800.0	3,757.2	3,790.8	3,739.6	11.3	12.1	82.38	56.1	-567.6	200.0	177.6	22.43	8.915		
3,900.0	3,855.6	3,890.6	3,837.5	11.7	12.5	82.51	57.9	-586.6	206.6	183.4	23.15	8.924		
4,000.0	3,954.0	3,990.4	3,935.4	12.0	12.9	82.63	59.7	-605.7	213.1	189.3	23.86	8.933		
4,100.0	4,052.4	4,090.2	4,033.3	12.4	13.3	82.74	61.4	-624.8	219.7	195.1	24.57	8.942		
4,200.0	4,150.9	4,189.9	4,131.3	12.7	13.7	82.84	63.2	-643.9	226.3	201.0	25.28	8.950		
4,300.0	4,249.3	4,289.7	4,229.2	13.1	14.0	82.94	65.0	-663.0	232.8	206.8	25.99	8.957		
4,400.0	4,347.7	4,389.5	4,327.1	13.5	14.4	83.04	66.8	-682.0	239.4	212.7	26.70	8.964		
4,500.0	4,446.1	4,489.3	4,425.0	13.8	14.8	83.12	68.6	-701.1	245.9	218.5	27.42	8.971		
4,600.0	4,544.6	4,589.1	4,523.0	14.2	15.2	83.21	70.3	-720.2	252.5	224.4	28.13	8.977		
4,700.0	4,643.0	4,688.9	4,620.9	14.5	15.6	83.29	72.1	-739.3	259.1	230.2	28.84	8.983		
4,800.0	4,741.4	4,788.6	4,718.8	14.9	15.9	83.36	73.9	-758.4	265.6	236.1	29.55	8.988		
4,900.0	4,839.8	4,888.4	4,816.8	15.2	16.3	83.44	75.7	-777.4	272.2	241.9	30.27	8.994		
5,000.0	4,938.3	4,988.2	4,914.7	15.6	16.7	83.50	77.5	-796.5	278.8	247.8	30.98	8.999		
5,100.0	5,036.7	5,088.0	5,012.6	16.0	17.1	83.57	79.2	-815.6	285.3	253.7	31.69	9.004		

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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			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	5,135.1	5,187.8	5,110.5	16.3	17.5	83.63	81.0	-834.7	291.9	259.5	32.41	9.008		
5,300.0	5,233.5	5,287.6	5,208.5	16.7	17.8	83.69	82.8	-853.8	298.5	265.4	33.12	9.012		
5,400.0	5,332.0	5,387.3	5,306.4	17.0	18.2	83.75	84.6	-872.8	305.1	271.2	33.83	9.017		
5,500.0	5,430.4	5,487.1	5,404.3	17.4	18.6	83.80	86.4	-891.9	311.6	277.1	34.55	9.021		
5,600.0	5,528.8	5,586.9	5,502.2	17.7	19.0	83.86	88.1	-911.0	318.2	282.9	35.26	9.024		
5,700.0	5,627.2	5,686.7	5,600.2	18.1	19.4	83.91	89.9	-930.1	324.8	288.8	35.97	9.028		
5,800.0	5,725.7	5,786.5	5,698.1	18.5	19.8	83.96	91.7	-949.2	331.3	294.6	36.69	9.032		
5,900.0	5,824.1	5,886.3	5,796.0	18.8	20.1	84.00	93.5	-968.2	337.9	300.5	37.40	9.035		
6,000.0	5,922.5	5,986.0	5,893.9	19.2	20.5	84.05	95.3	-987.3	344.5	306.4	38.11	9.038		
6,100.0	6,020.9	6,085.8	5,991.9	19.5	20.9	84.09	97.0	-1,006.4	351.0	312.2	38.83	9.041		
6,200.0	6,119.4	6,185.6	6,089.8	19.9	21.3	84.13	98.8	-1,025.5	357.6	318.1	39.54	9.044		
6,300.0	6,217.8	6,285.4	6,187.7	20.2	21.7	84.17	100.6	-1,044.6	364.2	323.9	40.25	9.047		
6,400.0	6,316.2	6,385.2	6,285.6	20.6	22.0	84.21	102.4	-1,063.6	370.8	329.8	40.97	9.050		
6,500.0	6,414.6	6,485.0	6,383.6	21.0	22.4	84.25	104.2	-1,082.7	377.3	335.6	41.68	9.053		
6,600.0	6,513.1	6,584.7	6,481.5	21.3	22.8	84.28	105.9	-1,101.8	383.9	341.5	42.40	9.055		
6,700.0	6,611.5	6,684.5	6,579.4	21.7	23.2	84.32	107.7	-1,120.9	390.5	347.4	43.11	9.058		
6,800.0	6,709.9	6,784.3	6,677.4	22.0	23.6	84.35	109.5	-1,139.9	397.0	353.2	43.82	9.060		
6,900.0	6,808.4	6,884.1	6,775.3	22.4	24.0	84.38	111.3	-1,159.0	403.6	359.1	44.54	9.062		
7,000.0	6,906.4	6,983.5	6,872.8	22.8	24.3	111.70	113.1	-1,178.0	413.7	368.8	44.88	9.218		
7,100.0	7,001.7	7,079.9	6,967.4	23.2	24.7	130.69	114.8	-1,196.5	438.8	394.6	44.16	9.936		
7,200.0	7,091.3	7,260.2	7,143.8	23.8	25.4	140.21	106.9	-1,230.8	477.2	434.3	42.89	11.124		
7,300.0	7,172.4	7,758.8	7,531.3	24.4	27.1	144.11	-171.5	-1,306.3	475.2	432.2	42.93	11.068		
7,400.0	7,242.7	8,067.6	7,606.0	25.1	28.6	140.35	-466.9	-1,320.9	421.9	379.8	42.11	10.020		
7,500.0	7,299.8	8,148.5	7,606.0	25.9	29.2	141.51	-547.8	-1,320.9	366.7	327.9	38.81	9.448		
7,600.0	7,342.2	8,238.3	7,606.0	26.7	29.8	141.69	-637.6	-1,320.9	325.9	290.5	35.43	9.199		
7,700.0	7,368.5	8,334.3	7,606.0	27.7	30.6	141.65	-733.7	-1,320.9	300.1	268.0	32.11	9.348		
7,800.0	7,378.0	8,433.6	7,606.0	28.7	31.4	141.97	-833.0	-1,320.9	289.5	260.7	28.87	10.028		
7,900.0	7,378.0	8,533.5	7,606.0	29.8	32.4	142.52	-932.9	-1,320.9	287.4	257.2	30.21	9.512		
8,000.0	7,378.0	8,633.5	7,606.0	30.9	33.4	143.08	-1,032.8	-1,320.9	285.3	253.5	31.79	8.974		
8,100.0	7,378.0	8,733.4	7,606.0	32.1	34.4	143.64	-1,132.8	-1,320.9	283.2	249.8	33.35	8.492		
8,200.0	7,378.0	8,833.4	7,606.0	33.3	35.6	144.21	-1,232.7	-1,320.9	281.1	246.2	34.88	8.060		
8,300.0	7,378.0	8,933.3	7,606.0	34.6	36.7	144.65	-1,332.7	-1,320.9	279.6	243.4	36.14	7.736		
8,400.0	7,378.0	9,033.3	7,606.0	35.9	37.9	144.81	-1,432.7	-1,320.9	279.0	241.5	37.53	7.433		
8,405.1	7,378.0	9,038.4	7,606.0	36.0	38.0	144.81	-1,437.8	-1,320.9	279.0	241.4	37.61	7.418		
8,500.0	7,378.0	9,133.3	7,606.0	37.2	39.2	144.68	-1,532.7	-1,320.9	279.5	240.3	39.12	7.143		
8,600.0	7,378.0	9,233.3	7,606.0	38.5	40.5	144.35	-1,632.6	-1,320.9	280.6	239.4	41.17	6.816		
8,700.0	7,378.0	9,333.3	7,606.0	39.9	41.8	144.02	-1,732.6	-1,320.9	281.8	238.4	43.35	6.501		
8,800.0	7,378.0	9,433.2	7,606.0	41.3	43.2	143.69	-1,832.6	-1,320.9	283.0	237.4	45.57	6.210		
8,900.0	7,378.0	9,533.2	7,606.0	42.8	44.6	143.36	-1,932.6	-1,320.9	284.2	236.4	47.82	5.942		
9,000.0	7,378.0	9,633.2	7,606.0	44.2	46.0	143.03	-2,032.6	-1,320.9	285.4	235.3	50.12	5.694		
9,100.0	7,378.0	9,733.2	7,606.0	45.7	47.4	142.71	-2,132.5	-1,320.9	286.6	234.2	52.45	5.464		
9,200.0	7,378.0	9,833.2	7,606.0	47.2	48.9	142.39	-2,232.5	-1,320.9	287.8	233.0	54.82	5.251		
9,300.0	7,378.0	9,933.1	7,606.0	48.7	50.3	142.07	-2,332.5	-1,320.9	289.1	231.9	57.22	5.052		
9,400.0	7,378.0	10,033.1	7,606.0	50.2	51.8	141.76	-2,432.5	-1,320.9	290.3	230.7	59.65	4.867		
9,500.0	7,378.0	10,133.1	7,606.0	51.7	53.4	141.45	-2,532.5	-1,320.9	291.6	229.5	62.11	4.694		
9,600.0	7,378.0	10,233.1	7,606.0	53.3	54.9	141.14	-2,632.4	-1,320.9	292.8	228.2	64.60	4.533		
9,700.0	7,378.0	10,333.1	7,606.0	54.9	56.4	140.83	-2,732.4	-1,320.9	294.1	227.0	67.13	4.382		
9,800.0	7,378.0	10,433.0	7,606.0	56.4	58.0	140.53	-2,832.4	-1,320.9	295.4	225.7	69.67	4.240		
9,900.0	7,378.0	10,533.0	7,606.0	58.0	59.5	140.22	-2,932.4	-1,320.9	296.7	224.4	72.25	4.106		
10,000.0	7,378.0	10,633.0	7,606.0	59.6	61.1	139.93	-3,032.4	-1,320.9	298.0	223.1	74.85	3.981		
10,100.0	7,378.0	10,733.0	7,606.0	61.2	62.7	139.63	-3,132.3	-1,320.9	299.3	221.8	77.48	3.863		
10,200.0	7,378.0	10,833.0	7,606.0	62.9	64.3	139.34	-3,232.3	-1,320.9	300.6	220.5	80.14	3.751		

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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,378.0	10,932.9	7,606.0	64.5	65.9	139.05	-3,332.3	-1,320.9	301.9	219.1	82.81	3.646		
10,400.0	7,378.0	11,032.9	7,606.0	66.1	67.5	138.76	-3,432.3	-1,320.9	303.2	217.7	85.52	3.546		
10,500.0	7,378.0	11,132.9	7,606.0	67.7	69.1	138.47	-3,532.3	-1,320.9	304.6	216.3	88.24	3.452		
10,600.0	7,378.0	11,232.9	7,606.0	69.4	70.7	138.19	-3,632.2	-1,320.9	305.9	214.9	90.99	3.362		
10,700.0	7,378.0	11,332.9	7,606.0	71.0	72.3	137.99	-3,732.2	-1,320.9	306.9	212.8	94.05	3.263		
10,800.0	7,378.0	11,432.9	7,606.0	72.7	74.0	137.98	-3,832.2	-1,320.9	306.9	210.4	96.55	3.179		
10,900.0	7,378.0	11,532.9	7,606.0	74.3	75.6	137.98	-3,932.2	-1,320.9	306.9	208.0	98.88	3.104		
11,000.0	7,378.0	11,632.9	7,606.0	76.0	77.3	137.98	-4,032.2	-1,320.9	306.9	205.7	101.21	3.032		
11,100.0	7,378.0	11,732.9	7,606.0	77.7	78.9	137.98	-4,132.2	-1,320.9	306.9	203.4	103.54	2.964		
11,200.0	7,378.0	11,832.9	7,606.0	79.4	80.6	137.98	-4,232.2	-1,320.9	306.9	201.0	105.87	2.899		
11,300.0	7,378.0	11,932.9	7,606.0	81.0	82.2	137.98	-4,332.2	-1,320.9	306.9	198.7	108.21	2.836		
11,400.0	7,378.0	12,032.9	7,606.0	82.7	83.9	137.98	-4,432.2	-1,320.9	306.9	196.4	110.54	2.776		
11,500.0	7,378.0	12,132.9	7,606.0	84.4	85.5	137.98	-4,532.2	-1,320.9	306.9	194.0	112.88	2.719		
11,600.0	7,378.0	12,232.9	7,606.0	86.1	87.2	137.98	-4,632.2	-1,320.9	306.9	191.7	115.22	2.664		
11,700.0	7,378.0	12,332.9	7,606.0	87.8	88.9	137.98	-4,732.2	-1,320.9	306.9	189.4	117.56	2.611		
11,800.0	7,378.0	12,432.9	7,606.0	89.5	90.6	137.98	-4,832.2	-1,320.9	306.9	187.0	119.90	2.560		
11,900.0	7,378.0	12,532.9	7,606.0	91.2	92.2	137.98	-4,932.2	-1,320.9	306.9	184.7	122.24	2.511		
12,000.0	7,378.0	12,632.9	7,606.0	92.9	93.9	137.98	-5,032.2	-1,320.9	306.9	182.3	124.58	2.464		
12,100.0	7,378.0	12,732.9	7,606.0	94.6	95.6	137.92	-5,132.2	-1,320.9	307.2	180.5	126.70	2.425		
12,200.0	7,378.0	12,832.8	7,606.0	96.3	97.3	137.65	-5,232.2	-1,320.9	308.6	179.5	129.13	2.390		
12,300.0	7,378.0	12,932.8	7,606.0	97.9	99.0	137.15	-5,332.1	-1,320.9	311.2	179.1	132.05	2.356		
12,400.0	7,378.0	13,032.6	7,606.0	99.6	100.7	136.43	-5,432.0	-1,320.9	315.0	179.5	135.45	2.326		
12,500.0	7,378.0	13,132.3	7,606.0	101.3	102.3	135.52	-5,531.7	-1,320.9	320.1	180.8	139.28	2.298		
12,600.0	7,378.0	13,231.9	7,606.0	103.0	104.0	134.43	-5,631.3	-1,320.9	326.5	182.8	143.63	2.273		
12,700.0	7,378.0	13,331.5	7,606.0	104.7	105.7	133.28	-5,730.8	-1,320.9	333.4	184.6	148.77	2.241		
12,800.0	7,378.0	13,431.0	7,606.0	106.3	107.4	132.17	-5,830.4	-1,320.9	340.5	186.7	153.84	2.213		
12,900.0	7,378.0	13,530.5	7,606.0	108.0	109.1	131.11	-5,929.9	-1,320.9	347.7	188.8	158.86	2.189		
13,000.0	7,378.0	13,630.1	7,606.0	109.7	110.8	130.09	-6,029.4	-1,320.9	355.0	191.2	163.81	2.167		
13,100.0	7,378.0	13,729.6	7,606.0	111.4	112.5	129.11	-6,129.0	-1,320.9	362.4	193.7	168.70	2.148		
13,200.0	7,378.0	13,829.2	7,606.0	113.1	114.2	128.17	-6,228.5	-1,320.9	370.0	196.4	173.53	2.132		
13,300.0	7,378.0	13,928.7	7,606.0	114.8	115.9	127.27	-6,328.0	-1,320.9	377.6	199.3	178.31	2.118		
13,400.0	7,378.0	14,028.2	7,606.0	116.5	117.6	126.41	-6,427.6	-1,320.9	385.3	202.3	183.04	2.105		
13,499.5	7,378.0	14,127.2	7,606.0	118.2	119.3	125.58	-6,526.6	-1,320.9	393.1	205.4	187.68	2.094 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3D-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	56.93	3.6	5.6	6.7						
100.0	100.0	100.0	100.0	0.2	0.2	56.93	3.6	5.6	6.7	6.4	0.30	21.986			
200.0	200.0	200.0	200.0	0.3	0.3	56.93	3.6	5.6	6.7	6.0	0.65	10.229			
300.0	300.0	300.0	300.0	0.5	0.5	56.93	3.6	5.6	6.7	5.7	1.00	6.665			
400.0	400.0	400.0	400.0	0.7	0.7	56.93	3.6	5.6	6.7	5.3	1.35	4.943 CC, ES			
500.0	500.0	500.0	500.0	0.9	0.8	163.69	3.6	5.6	7.5	5.8	1.70	4.418			
600.0	600.0	600.1	600.1	1.0	1.0	164.60	3.8	4.7	9.4	7.3	2.05	4.575			
700.0	699.9	700.2	700.2	1.2	1.2	161.81	4.3	2.2	11.6	9.2	2.40	4.842			
800.0	799.7	800.3	800.2	1.4	1.4	157.31	5.2	-2.1	14.3	11.6	2.76	5.194			
900.0	899.4	900.4	900.1	1.6	1.6	152.26	6.3	-8.1	17.6	14.4	3.13	5.619			
1,000.0	998.9	1,000.5	999.9	1.8	1.8	147.30	7.8	-15.8	21.5	17.9	3.52	6.098			
1,100.0	1,098.3	1,100.5	1,099.4	2.1	2.0	143.51	9.6	-24.9	26.2	22.3	3.93	6.667			
1,200.0	1,197.4	1,200.3	1,198.8	2.3	2.2	142.67	11.4	-34.0	32.4	28.0	4.35	7.441			
1,300.0	1,296.3	1,300.0	1,298.1	2.6	2.4	143.63	13.1	-43.1	40.0	35.2	4.77	8.372			
1,400.0	1,394.9	1,399.6	1,397.2	2.9	2.7	145.45	14.9	-52.2	48.9	43.8	5.19	9.437			
1,500.0	1,493.4	1,499.0	1,496.3	3.3	2.9	147.35	16.7	-61.3	58.9	53.3	5.60	10.529			
1,600.0	1,591.8	1,598.5	1,595.3	3.6	3.1	148.72	18.5	-70.3	69.0	63.0	6.01	11.478			
1,700.0	1,690.2	1,698.0	1,694.4	3.9	3.3	149.74	20.2	-79.4	79.1	72.7	6.43	12.306			
1,800.0	1,788.6	1,797.5	1,793.4	4.3	3.6	150.53	22.0	-88.5	89.2	82.4	6.85	13.033			
1,900.0	1,887.1	1,897.0	1,892.5	4.6	3.8	151.16	23.8	-97.6	99.4	92.1	7.26	13.677			
2,000.0	1,985.5	1,996.4	1,991.5	5.0	4.0	151.67	25.5	-106.6	109.5	101.8	7.68	14.251			
2,100.0	2,083.9	2,095.9	2,090.6	5.3	4.3	152.10	27.3	-115.7	119.6	111.5	8.10	14.765			
2,200.0	2,182.3	2,195.4	2,189.6	5.7	4.5	152.46	29.1	-124.8	129.8	121.3	8.52	15.227			
2,300.0	2,280.8	2,294.9	2,288.7	6.0	4.7	152.76	30.9	-133.9	140.0	131.0	8.95	15.646			
2,400.0	2,379.2	2,394.4	2,387.7	6.4	5.0	153.03	32.6	-143.0	150.1	140.8	9.37	16.027			
2,500.0	2,477.6	2,493.8	2,486.8	6.7	5.2	153.26	34.4	-152.0	160.3	150.5	9.79	16.374			
2,600.0	2,576.0	2,593.3	2,585.8	7.1	5.4	153.46	36.2	-161.1	170.4	160.2	10.21	16.692			
2,700.0	2,674.5	2,692.8	2,684.8	7.4	5.7	153.65	38.0	-170.2	180.6	170.0	10.63	16.985			
2,800.0	2,772.9	2,792.3	2,783.9	7.8	5.9	153.81	39.7	-179.3	190.8	179.7	11.06	17.255			
2,900.0	2,871.3	2,891.8	2,882.9	8.1	6.1	153.95	41.5	-188.4	201.0	189.5	11.48	17.506			
3,000.0	2,969.7	2,991.2	2,982.0	8.5	6.4	154.08	43.3	-197.4	211.1	199.2	11.90	17.738			
3,100.0	3,068.2	3,090.7	3,081.0	8.8	6.6	154.20	45.0	-206.5	221.3	209.0	12.33	17.954			
3,200.0	3,166.6	3,190.2	3,180.1	9.2	6.9	154.31	46.8	-215.6	231.5	218.7	12.75	18.155			
3,300.0	3,265.0	3,289.7	3,279.1	9.5	7.1	154.41	48.6	-224.7	241.6	228.5	13.17	18.343			
3,400.0	3,363.5	3,389.2	3,378.2	9.9	7.3	154.50	50.4	-233.7	251.8	238.2	13.60	18.520			
3,500.0	3,461.9	3,488.7	3,477.2	10.3	7.6	154.59	52.1	-242.8	262.0	248.0	14.02	18.685			
3,600.0	3,560.3	3,588.1	3,576.3	10.6	7.8	154.67	53.9	-251.9	272.2	257.7	14.45	18.841			
3,700.0	3,658.7	3,687.6	3,675.3	11.0	8.0	154.74	55.7	-261.0	282.4	267.5	14.87	18.988			
3,800.0	3,757.2	3,787.1	3,774.4	11.3	8.3	154.81	57.4	-270.1	292.5	277.2	15.29	19.127			
3,900.0	3,855.6	3,886.6	3,873.4	11.7	8.5	154.87	59.2	-279.1	302.7	287.0	15.72	19.258			
4,000.0	3,954.0	3,986.1	3,972.5	12.0	8.7	154.93	61.0	-288.2	312.9	296.7	16.14	19.382			
4,100.0	4,052.4	4,085.5	4,071.5	12.4	9.0	154.98	62.8	-297.3	323.1	306.5	16.57	19.499			
4,200.0	4,150.9	4,185.0	4,170.6	12.7	9.2	155.03	64.5	-306.4	333.2	316.2	16.99	19.611			
4,300.0	4,249.3	4,284.5	4,269.6	13.1	9.5	155.08	66.3	-315.5	343.4	326.0	17.42	19.717			
4,400.0	4,347.7	4,384.0	4,368.7	13.5	9.7	155.13	68.1	-324.5	353.6	335.8	17.84	19.818			
4,500.0	4,446.1	4,483.5	4,467.7	13.8	9.9	155.17	69.8	-333.6	363.8	345.5	18.27	19.915			
4,600.0	4,544.6	4,582.9	4,566.8	14.2	10.2	155.21	71.6	-342.7	374.0	355.3	18.69	20.007			
4,700.0	4,643.0	4,682.4	4,665.8	14.5	10.4	155.25	73.4	-351.8	384.1	365.0	19.12	20.094			
4,800.0	4,741.4	4,781.9	4,764.9	14.9	10.6	155.29	75.2	-360.9	394.3	374.8	19.54	20.178			
4,900.0	4,839.8	4,881.4	4,863.9	15.2	10.9	155.32	76.9	-369.9	404.5	384.5	19.97	20.259			
5,000.0	4,938.3	4,980.9	4,963.0	15.6	11.1	155.36	78.7	-379.0	414.7	394.3	20.39	20.336			
5,100.0	5,036.7	5,080.3	5,062.0	16.0	11.3	155.39	80.5	-388.1	424.9	404.0	20.82	20.409			

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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3D-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
5,200.0	5,135.1	5,179.8	5,161.1	16.3	11.6	155.42	82.3	-397.2	435.0	413.8	21.24	20.480		
5,300.0	5,233.5	5,279.3	5,260.1	16.7	11.8	155.45	84.0	-406.2	445.2	423.5	21.67	20.548		
5,400.0	5,332.0	5,378.8	5,359.2	17.0	12.1	155.48	85.8	-415.3	455.4	433.3	22.09	20.613		
5,500.0	5,430.4	5,478.3	5,458.2	17.4	12.3	155.50	87.6	-424.4	465.6	443.1	22.52	20.676		
5,600.0	5,528.8	5,577.7	5,557.3	17.7	12.5	155.53	89.3	-433.5	475.8	452.8	22.94	20.737		
5,700.0	5,627.2	5,677.2	5,656.3	18.1	12.8	155.55	91.1	-442.6	485.9	462.6	23.37	20.795		
5,800.0	5,725.7	5,776.7	5,755.4	18.5	13.0	155.57	92.9	-451.6	496.1	472.3	23.79	20.851		
12,900.0	7,378.0	13,435.0	7,606.0	108.0	107.2	-117.66	-5,929.9	-621.3	493.0	306.4	186.59	2.642		
13,000.0	7,378.0	13,534.5	7,606.0	109.7	108.9	-118.18	-6,029.4	-621.3	484.5	295.7	188.79	2.566		
13,100.0	7,378.0	13,634.0	7,606.0	111.4	110.6	-118.73	-6,129.0	-621.3	476.0	285.1	190.92	2.493		
13,200.0	7,378.0	13,733.6	7,606.0	113.1	112.3	-119.30	-6,228.5	-621.3	467.6	274.6	192.97	2.423		
13,300.0	7,378.0	13,833.1	7,606.0	114.8	114.1	-119.88	-6,328.0	-621.3	459.2	264.3	194.93	2.356		
13,400.0	7,378.0	13,932.6	7,606.0	116.5	115.8	-120.49	-6,427.6	-621.3	450.9	254.1	196.79	2.291		
13,499.5	7,378.0	14,031.7	7,606.0	118.2	117.5	-121.12	-6,526.6	-621.3	442.7	244.1	198.54	2.230 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	1.0	1.0	0.0	0.0	90.01	0.0	19.6	19.6					
100.0	100.0	101.0	101.0	0.2	0.2	90.01	0.0	19.6	19.6	19.3	0.31	64.119		
200.0	200.0	201.0	201.0	0.3	0.3	90.01	0.0	19.6	19.6	18.9	0.65	29.922		
300.0	300.0	301.0	301.0	0.5	0.5	90.01	0.0	19.6	19.6	18.6	1.00	19.515		
400.0	400.0	401.0	401.0	0.7	0.7	90.01	0.0	19.6	19.6	18.2	1.35	14.479 CC, ES		
500.0	500.0	501.0	501.0	0.9	0.9	-165.96	0.0	19.6	20.4	18.7	1.70	12.006		
600.0	600.0	601.0	601.0	1.0	1.0	-167.53	0.0	19.6	23.0	20.9	2.05	11.208		
700.0	699.9	701.3	701.3	1.2	1.2	-170.40	0.3	18.8	26.5	24.1	2.40	11.031		
800.0	799.7	801.6	801.6	1.4	1.4	-174.70	1.4	16.3	30.2	27.5	2.75	11.004 SF		
900.0	899.4	901.8	901.7	1.6	1.6	-179.75	3.1	12.3	34.5	31.4	3.10	11.150		
1,000.0	998.9	1,001.6	1,001.3	1.8	1.7	176.10	4.9	8.0	40.5	37.0	3.45	11.732		
1,100.0	1,098.3	1,101.3	1,100.9	2.1	1.9	173.26	6.8	3.6	48.3	44.5	3.80	12.695		
1,200.0	1,197.4	1,200.8	1,200.3	2.3	2.1	171.48	8.6	-0.7	57.9	53.7	4.16	13.923		
1,300.0	1,296.3	1,300.1	1,299.5	2.6	2.3	170.44	10.5	-5.1	69.2	64.7	4.51	15.344		
1,400.0	1,394.9	1,399.3	1,398.6	2.9	2.5	169.90	12.3	-9.4	82.3	77.5	4.87	16.911		
1,500.0	1,493.4	1,498.3	1,497.4	3.3	2.7	169.65	14.1	-13.8	96.5	91.3	5.23	18.461		
1,600.0	1,591.8	1,597.2	1,596.3	3.6	2.9	169.47	16.0	-18.1	110.8	105.2	5.59	19.809		
1,700.0	1,690.2	1,696.2	1,695.2	3.9	3.1	169.33	17.8	-22.4	125.0	119.1	5.96	20.990		
1,800.0	1,788.6	1,795.2	1,794.0	4.3	3.2	169.22	19.7	-26.8	139.3	132.9	6.32	22.034		
1,900.0	1,887.1	1,894.2	1,892.9	4.6	3.4	169.13	21.5	-31.1	153.5	146.8	6.69	22.961		
2,000.0	1,985.5	1,993.2	1,991.8	5.0	3.6	169.05	23.3	-35.4	167.8	160.7	7.05	23.792		
2,100.0	2,083.9	2,092.1	2,090.6	5.3	3.8	168.99	25.2	-39.8	182.0	174.6	7.42	24.540		
2,200.0	2,182.3	2,191.1	2,189.5	5.7	4.0	168.94	27.0	-44.1	196.2	188.5	7.78	25.216		
2,300.0	2,280.8	2,290.1	2,288.4	6.0	4.2	168.89	28.8	-48.4	210.5	202.3	8.15	25.831		
2,400.0	2,379.2	2,389.1	2,387.3	6.4	4.4	168.85	30.7	-52.8	224.7	216.2	8.52	26.393		
2,500.0	2,477.6	2,488.1	2,486.1	6.7	4.6	168.81	32.5	-57.1	239.0	230.1	8.88	26.907		
2,600.0	2,576.0	2,587.0	2,585.0	7.1	4.8	168.78	34.4	-61.4	253.2	244.0	9.25	27.380		
2,700.0	2,674.5	2,686.0	2,683.9	7.4	5.0	168.75	36.2	-65.8	267.5	257.9	9.62	27.817		
2,800.0	2,772.9	2,785.0	2,782.7	7.8	5.1	168.73	38.0	-70.1	281.7	271.7	9.98	28.221		
2,900.0	2,871.3	2,884.0	2,881.6	8.1	5.3	168.70	39.9	-74.4	296.0	285.6	10.35	28.596		
3,000.0	2,969.7	2,983.0	2,980.5	8.5	5.5	168.68	41.7	-78.8	310.2	299.5	10.72	28.946		
3,100.0	3,068.2	3,081.9	3,079.3	8.8	5.7	168.66	43.5	-83.1	324.5	313.4	11.08	29.272		
3,200.0	3,166.6	3,180.9	3,178.2	9.2	5.9	168.64	45.4	-87.4	338.7	327.3	11.45	29.576		
3,300.0	3,265.0	3,279.9	3,277.1	9.5	6.1	168.63	47.2	-91.8	353.0	341.1	11.82	29.862		
3,400.0	3,363.5	3,378.9	3,375.9	9.9	6.3	168.61	49.0	-96.1	367.2	355.0	12.19	30.130		
3,500.0	3,461.9	3,477.9	3,474.8	10.3	6.5	168.60	50.9	-100.4	381.5	368.9	12.56	30.382		
3,600.0	3,560.3	3,576.8	3,573.7	10.6	6.7	168.59	52.7	-104.8	395.7	382.8	12.92	30.620		
3,700.0	3,658.7	3,675.8	3,672.5	11.0	6.9	168.57	54.6	-109.1	409.9	396.7	13.29	30.845		
3,800.0	3,757.2	3,774.8	3,771.4	11.3	7.0	168.56	56.4	-113.4	424.2	410.5	13.66	31.057		
3,900.0	3,855.6	3,873.8	3,870.3	11.7	7.2	168.55	58.2	-117.7	438.4	424.4	14.03	31.258		
4,000.0	3,954.0	3,972.7	3,969.1	12.0	7.4	168.54	60.1	-122.1	452.7	438.3	14.39	31.449		
4,100.0	4,052.4	4,071.7	4,068.0	12.4	7.6	168.53	61.9	-126.4	466.9	452.2	14.76	31.630		
4,200.0	4,150.9	4,170.7	4,166.9	12.7	7.8	168.53	63.7	-130.7	481.2	466.1	15.13	31.802		
4,300.0	4,249.3	4,269.7	4,265.7	13.1	8.0	168.52	65.6	-135.1	495.4	479.9	15.50	31.966		

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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3F-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	81.78	3.6	25.2	25.4					
100.0	100.0	101.0	101.0	0.2	0.2	81.78	3.6	25.2	25.4	0.31	83.295			
200.0	200.0	201.0	201.0	0.3	0.3	81.78	3.6	25.2	25.4	0.65	38.871			
300.0	300.0	301.0	301.0	0.5	0.5	81.78	3.6	25.2	25.4	1.00	25.351			
400.0	400.0	401.0	401.0	0.7	0.7	81.78	3.6	25.2	25.4	1.35	18.809 CC, ES			
500.0	500.0	501.0	501.0	0.9	0.9	-173.78	3.6	25.2	26.3	1.70	15.462			
600.0	600.0	601.0	601.0	1.0	1.0	-174.34	3.6	25.2	28.9	2.05	14.103			
700.0	699.9	700.9	700.9	1.2	1.2	-175.08	3.6	25.2	33.3	2.40	13.869 SF			
800.0	799.7	800.7	800.7	1.4	1.4	-175.84	3.6	25.2	39.3	2.75	14.332			
900.0	899.4	900.4	900.4	1.6	1.5	-176.53	3.6	25.2	47.2	3.09	15.260			
1,000.0	998.9	999.9	999.9	1.8	1.7	-177.11	3.6	25.2	56.7	3.44	16.513			
1,100.0	1,098.3	1,099.3	1,099.3	2.1	1.9	-177.58	3.6	25.2	68.0	3.78	18.003			
1,200.0	1,197.4	1,198.4	1,198.4	2.3	2.1	-177.97	3.6	25.2	81.1	4.12	19.673			
1,300.0	1,296.3	1,297.3	1,297.3	2.6	2.2	-178.28	3.6	25.2	95.9	4.46	21.482			
1,400.0	1,394.9	1,395.9	1,395.9	2.9	2.4	-178.53	3.6	25.2	112.4	4.80	23.403			
1,500.0	1,493.4	1,494.4	1,494.4	3.3	2.6	-178.72	3.6	25.2	130.0	5.15	25.266			
1,600.0	1,591.8	1,592.8	1,592.8	3.6	2.8	-178.88	3.6	25.2	147.7	5.49	26.894			
1,700.0	1,690.2	1,691.2	1,691.2	3.9	2.9	-179.00	3.6	25.2	165.3	5.84	28.329			
1,800.0	1,788.6	1,789.6	1,789.6	4.3	3.1	-179.09	3.6	25.2	183.0	6.18	29.605			
1,900.0	1,887.1	1,888.1	1,888.1	4.6	3.3	-179.17	3.6	25.2	200.7	6.53	30.745			
2,000.0	1,985.5	1,986.5	1,986.5	5.0	3.4	-179.24	3.6	25.2	218.4	6.87	31.771			
2,100.0	2,083.9	2,084.9	2,084.9	5.3	3.6	-179.30	3.6	25.2	236.0	7.22	32.699			
2,200.0	2,182.3	2,183.3	2,183.3	5.7	3.8	-179.35	3.6	25.2	253.7	7.56	33.542			
2,300.0	2,280.8	2,281.8	2,281.8	6.0	4.0	-179.39	3.6	25.2	271.4	7.91	34.312			
2,400.0	2,379.2	2,380.2	2,380.2	6.4	4.1	-179.43	3.6	25.2	289.1	8.25	35.017			
2,500.0	2,477.6	2,478.6	2,478.6	6.7	4.3	-179.46	3.6	25.2	306.7	8.60	35.666			
2,600.0	2,576.0	2,577.0	2,577.0	7.1	4.5	-179.49	3.6	25.2	324.4	8.95	36.265			
2,700.0	2,674.5	2,675.5	2,675.5	7.4	4.6	-179.52	3.6	25.2	342.1	9.29	36.819			
2,800.0	2,772.9	2,773.9	2,773.9	7.8	4.8	-179.54	3.6	25.2	359.7	9.64	37.334			
2,900.0	2,871.3	2,872.3	2,872.3	8.1	5.0	-179.56	3.6	25.2	377.4	9.98	37.813			
3,000.0	2,969.7	2,970.7	2,970.7	8.5	5.2	-179.58	3.6	25.2	395.1	10.33	38.260			
3,100.0	3,068.2	3,069.2	3,069.2	8.8	5.3	-179.60	3.6	25.2	412.8	10.67	38.678			
3,200.0	3,166.6	3,167.6	3,167.6	9.2	5.5	-179.61	3.6	25.2	430.4	11.02	39.070			
3,300.0	3,265.0	3,266.0	3,266.0	9.5	5.7	-179.63	3.6	25.2	448.1	11.36	39.438			
3,400.0	3,363.5	3,364.5	3,364.5	9.9	5.8	-179.64	3.6	25.2	465.8	11.71	39.785			
3,500.0	3,461.9	3,462.9	3,462.9	10.3	6.0	-179.66	3.6	25.2	483.5	12.05	40.112			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3G-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	30.8	30.8					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	30.8	30.8	30.5	0.31	100.759		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	30.8	30.8	30.1	0.65	47.021		
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	30.8	30.8	29.8	1.00	30.666		
366.3	366.3	367.3	367.3	0.6	0.6	90.00	0.0	30.8	30.8	29.5	1.24	24.917 CC		
400.0	400.0	401.0	401.0	0.7	0.7	90.00	0.0	30.8	30.8	29.4	1.35	22.752 ES		
500.0	500.0	500.5	500.4	0.9	0.9	-166.19	0.3	31.6	32.5	30.8	1.70	19.092		
600.0	600.0	600.0	600.0	1.0	1.0	-168.25	1.0	34.1	37.5	35.5	2.05	18.329 SF		
700.0	699.9	698.6	698.5	1.2	1.2	-170.64	2.3	38.2	46.1	43.7	2.39	19.239		
800.0	799.7	797.5	797.2	1.4	1.4	-172.79	4.0	43.8	57.9	55.1	2.74	21.126		
900.0	899.4	896.5	896.0	1.6	1.6	-174.38	5.8	49.6	71.7	68.6	3.08	23.255		
1,000.0	998.9	995.3	994.6	1.8	1.8	-175.55	7.6	55.4	87.3	83.9	3.43	25.482		
1,100.0	1,098.3	1,093.7	1,092.9	2.1	2.0	-176.42	9.4	61.2	104.7	100.9	3.77	27.780		
1,200.0	1,197.4	1,191.9	1,190.8	2.3	2.2	-177.09	11.1	66.9	123.7	119.6	4.11	30.133		
1,300.0	1,296.3	1,289.7	1,288.5	2.6	2.4	-177.60	12.9	72.7	144.5	140.1	4.44	32.529		
1,400.0	1,394.9	1,387.1	1,385.7	2.9	2.6	-178.01	14.7	78.4	167.0	162.2	4.78	34.962		
1,500.0	1,493.4	1,484.3	1,482.7	3.3	2.8	-178.33	16.4	84.1	190.7	185.5	5.12	37.255		
1,600.0	1,591.8	1,581.4	1,579.6	3.6	3.0	-178.59	18.2	89.8	214.3	208.9	5.46	39.256		
1,700.0	1,690.2	1,678.6	1,676.6	3.9	3.2	-178.79	19.9	95.5	238.0	232.2	5.80	41.022		
1,800.0	1,788.6	1,775.7	1,773.6	4.3	3.4	-178.96	21.7	101.2	261.7	255.5	6.14	42.592		
1,900.0	1,887.1	1,872.9	1,870.6	4.6	3.6	-179.10	23.4	106.9	285.3	278.9	6.49	43.997		
2,000.0	1,985.5	1,970.1	1,967.5	5.0	3.7	-179.21	25.2	112.6	309.0	302.2	6.83	45.262		
2,100.0	2,083.9	2,067.2	2,064.5	5.3	3.9	-179.32	26.9	118.3	332.7	325.5	7.17	46.406		
2,200.0	2,182.3	2,164.4	2,161.5	5.7	4.1	-179.40	28.7	124.0	356.4	348.9	7.51	47.447		
2,300.0	2,280.8	2,261.5	2,258.4	6.0	4.3	-179.48	30.5	129.8	380.1	372.2	7.85	48.397		
2,400.0	2,379.2	2,358.7	2,355.4	6.4	4.5	-179.55	32.2	135.5	403.7	395.5	8.19	49.268		
2,500.0	2,477.6	2,455.8	2,452.4	6.7	4.7	-179.61	34.0	141.2	427.4	418.9	8.54	50.069		
2,600.0	2,576.0	2,553.0	2,549.4	7.1	4.9	-179.66	35.7	146.9	451.1	442.2	8.88	50.809		
2,700.0	2,674.5	2,650.1	2,646.3	7.4	5.1	-179.71	37.5	152.6	474.8	465.6	9.22	51.494		
2,800.0	2,772.9	2,747.3	2,743.3	7.8	5.3	-179.75	39.2	158.3	498.5	488.9	9.56	52.130		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3H-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	84.28	3.6	36.4	36.6					
100.0	100.0	101.0	101.0	0.2	0.2	84.28	3.6	36.4	36.6	36.2	0.31	119.675		
200.0	200.0	201.0	201.0	0.3	0.3	84.28	3.6	36.4	36.6	35.9	0.65	55.848		
300.0	300.0	301.0	301.0	0.5	0.5	84.28	3.6	36.4	36.6	35.5	1.00	36.423		
332.0	332.0	333.0	333.0	0.6	0.6	84.28	3.6	36.4	36.6	35.4	1.12	32.778 CC		
400.0	400.0	400.7	400.7	0.7	0.7	84.26	3.7	36.6	36.8	35.4	1.35	27.200 ES		
500.0	500.0	500.0	500.0	0.9	0.9	-171.44	4.0	38.3	39.4	37.7	1.70	23.172		
600.0	600.0	599.1	599.0	1.0	1.0	-172.17	4.5	41.7	45.5	43.4	2.05	22.210 SF		
700.0	699.9	697.7	697.5	1.2	1.2	-173.00	5.4	46.8	55.0	52.6	2.39	22.981		
800.0	799.7	795.8	795.4	1.4	1.4	-173.78	6.5	53.5	67.9	65.2	2.74	24.832		
900.0	899.4	893.2	892.4	1.6	1.6	-174.42	7.8	61.8	84.3	81.2	3.08	27.400		
1,000.0	998.9	990.0	988.7	1.8	1.8	-174.93	9.4	71.6	104.0	100.6	3.42	30.456		
1,100.0	1,098.3	1,087.6	1,085.7	2.1	2.1	-175.34	11.1	82.0	126.0	122.2	3.75	33.554		
1,200.0	1,197.4	1,184.7	1,182.3	2.3	2.3	-175.67	12.8	92.3	149.6	145.5	4.09	36.575		
1,300.0	1,296.3	1,281.5	1,278.4	2.6	2.5	-175.95	14.5	102.6	174.9	170.5	4.42	39.539		
1,400.0	1,394.9	1,377.7	1,374.1	2.9	2.8	-176.19	16.2	112.9	201.9	197.2	4.76	42.463		
1,500.0	1,493.4	1,473.7	1,469.5	3.3	3.0	-176.41	17.9	123.1	230.1	225.0	5.09	45.169		
1,600.0	1,591.8	1,569.6	1,564.9	3.6	3.3	-176.58	19.6	133.3	258.2	252.8	5.43	47.530		
1,700.0	1,690.2	1,665.6	1,660.3	3.9	3.5	-176.71	21.2	143.6	286.4	280.6	5.77	49.614		
1,800.0	1,788.6	1,761.5	1,755.7	4.3	3.7	-176.82	22.9	153.8	314.6	308.5	6.11	51.466		
1,900.0	1,887.1	1,857.5	1,851.1	4.6	4.0	-176.92	24.6	164.0	342.7	336.3	6.45	53.125		
2,000.0	1,985.5	1,953.4	1,946.5	5.0	4.2	-177.00	26.3	174.2	370.9	364.1	6.79	54.618		
2,100.0	2,083.9	2,049.4	2,041.9	5.3	4.5	-177.06	27.9	184.4	399.1	391.9	7.13	55.969		
2,200.0	2,182.3	2,145.3	2,137.3	5.7	4.7	-177.12	29.6	194.7	427.2	419.8	7.47	57.198		
2,300.0	2,280.8	2,241.3	2,232.6	6.0	5.0	-177.17	31.3	204.9	455.4	447.6	7.81	58.320		
2,400.0	2,379.2	2,337.2	2,328.0	6.4	5.2	-177.22	33.0	215.1	483.6	475.4	8.15	59.349		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3I-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	50.4	50.4					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	50.4	50.4	50.1	0.31	164.878		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	50.4	50.4	49.7	0.65	76.941		
300.0	300.0	301.8	301.8	0.5	0.5	90.38	-0.3	49.5	49.5	48.5	1.01	49.246		
400.0	400.0	402.6	402.5	0.7	0.7	91.60	-1.3	47.0	47.1	45.7	1.36	34.625		
500.0	500.0	503.2	503.1	0.9	0.9	-161.80	-2.9	42.9	43.9	42.2	1.71	25.668		
600.0	600.0	603.8	603.5	1.0	1.1	-159.27	-5.2	37.1	40.8	38.7	2.07	19.754		
700.0	699.9	704.4	703.7	1.2	1.3	-156.05	-8.1	29.7	37.9	35.5	2.43	15.603		
800.0	799.7	804.9	803.7	1.4	1.5	-152.02	-11.7	20.7	35.3	32.5	2.81	12.551		
900.0	899.4	905.3	903.5	1.6	1.8	-147.06	-15.9	10.0	33.0	29.7	3.22	10.237		
1,000.0	998.9	1,005.6	1,002.9	1.8	2.1	-141.10	-20.7	-2.2	31.0	27.4	3.67	8.450		
1,100.0	1,098.3	1,105.9	1,102.1	2.1	2.4	-134.18	-26.2	-16.1	29.7	25.5	4.20	7.069		
1,200.0	1,197.4	1,206.1	1,200.9	2.3	2.7	-126.47	-32.3	-31.6	28.9	24.1	4.80	6.022		
1,251.4	1,248.3	1,257.5	1,251.6	2.5	2.9	-122.31	-35.7	-40.2	28.8	23.7	5.15	5.592 CC		
1,300.0	1,296.3	1,306.2	1,299.3	2.6	3.0	-118.33	-39.0	-48.7	28.9	23.4	5.50	5.259		
1,400.0	1,394.9	1,406.3	1,397.4	2.9	3.4	-110.22	-46.4	-67.3	29.7	23.4	6.27	4.736 ES		
1,500.0	1,493.4	1,506.2	1,495.0	3.3	3.8	-101.56	-54.4	-87.6	31.1	24.0	7.08	4.392		
1,600.0	1,591.8	1,606.0	1,592.0	3.6	4.3	-90.87	-62.9	-109.3	33.3	25.4	7.87	4.229 SF		
1,700.0	1,690.2	1,705.7	1,688.5	3.9	4.7	-79.81	-72.0	-132.3	36.8	28.3	8.52	4.322		
1,800.0	1,788.6	1,805.4	1,785.1	4.3	5.2	-70.85	-81.0	-155.3	41.5	32.5	9.03	4.595		
1,900.0	1,887.1	1,905.1	1,881.7	4.6	5.6	-63.84	-90.1	-178.3	47.0	37.5	9.46	4.966		
2,000.0	1,985.5	2,004.8	1,978.3	5.0	6.1	-58.35	-99.2	-201.3	53.0	43.2	9.85	5.382		
2,100.0	2,083.9	2,104.5	2,074.9	5.3	6.6	-54.02	-108.2	-224.3	59.5	49.2	10.23	5.813		
2,200.0	2,182.3	2,204.2	2,171.5	5.7	7.0	-50.54	-117.3	-247.3	66.2	55.6	10.60	6.242		
2,300.0	2,280.8	2,303.9	2,268.1	6.0	7.5	-47.72	-126.4	-270.3	73.0	62.1	10.97	6.660		
2,400.0	2,379.2	2,403.6	2,364.7	6.4	8.0	-45.38	-135.4	-293.3	80.1	68.8	11.34	7.061		
2,500.0	2,477.6	2,503.3	2,461.3	6.7	8.4	-43.42	-144.5	-316.3	87.2	75.5	11.72	7.444		
2,600.0	2,576.0	2,603.0	2,557.9	7.1	8.9	-41.77	-153.6	-339.3	94.5	82.4	12.10	7.807		
2,700.0	2,674.5	2,702.7	2,654.4	7.4	9.4	-40.34	-162.6	-362.3	101.8	89.3	12.49	8.150		
2,800.0	2,772.9	2,802.4	2,751.0	7.8	9.8	-39.11	-171.7	-385.3	109.2	96.3	12.88	8.474		
2,900.0	2,871.3	2,902.1	2,847.6	8.1	10.3	-38.04	-180.8	-408.3	116.6	103.3	13.28	8.781		
3,000.0	2,969.7	3,001.9	2,944.2	8.5	10.8	-37.09	-189.8	-431.3	124.0	110.3	13.67	9.070		
3,100.0	3,068.2	3,101.6	3,040.8	8.8	11.3	-36.26	-198.9	-454.3	131.5	117.4	14.07	9.344		
3,200.0	3,166.6	3,201.3	3,137.4	9.2	11.7	-35.51	-208.0	-477.3	139.0	124.5	14.47	9.602		
3,300.0	3,265.0	3,301.0	3,234.0	9.5	12.2	-34.84	-217.0	-500.3	146.5	131.6	14.88	9.847		
3,400.0	3,363.5	3,400.7	3,330.6	9.9	12.7	-34.23	-226.1	-523.3	154.0	138.8	15.28	10.079		
3,500.0	3,461.9	3,500.4	3,427.2	10.3	13.1	-33.68	-235.2	-546.3	161.6	145.9	15.69	10.298		
3,600.0	3,560.3	3,600.1	3,523.7	10.6	13.6	-33.18	-244.2	-569.3	169.2	153.1	16.10	10.507		
3,700.0	3,658.7	3,699.8	3,620.3	11.0	14.1	-32.72	-253.3	-592.3	176.7	160.2	16.51	10.705		
3,800.0	3,757.2	3,799.5	3,716.9	11.3	14.6	-32.30	-262.4	-615.3	184.3	167.4	16.92	10.893		
3,900.0	3,855.6	3,899.2	3,813.5	11.7	15.0	-31.92	-271.4	-638.3	191.9	174.6	17.33	11.073		
4,000.0	3,954.0	3,998.9	3,910.1	12.0	15.5	-31.56	-280.5	-661.3	199.5	181.8	17.75	11.243		
4,100.0	4,052.4	4,098.6	4,006.7	12.4	16.0	-31.23	-289.6	-684.3	207.1	189.0	18.16	11.406		
4,200.0	4,150.9	4,198.3	4,103.3	12.7	16.5	-30.92	-298.6	-707.3	214.7	196.2	18.57	11.562		
4,300.0	4,249.3	4,298.0	4,199.9	13.1	16.9	-30.64	-307.7	-730.3	222.4	203.4	18.99	11.710		
4,400.0	4,347.7	4,397.7	4,296.5	13.5	17.4	-30.37	-316.7	-753.3	230.0	210.6	19.41	11.853		
4,500.0	4,446.1	4,497.4	4,393.0	13.8	17.9	-30.12	-325.8	-776.3	237.6	217.8	19.82	11.989		
4,600.0	4,544.6	4,597.1	4,489.6	14.2	18.4	-29.88	-334.9	-799.3	245.3	225.0	20.24	12.119		
4,700.0	4,643.0	4,696.8	4,586.2	14.5	18.8	-29.66	-343.9	-822.3	252.9	232.3	20.66	12.244		
4,800.0	4,741.4	4,796.5	4,682.8	14.9	19.3	-29.45	-353.0	-845.3	260.6	239.5	21.07	12.364		
4,900.0	4,839.8	4,896.2	4,779.4	15.2	19.8	-29.26	-362.1	-868.3	268.2	246.7	21.49	12.479		
5,000.0	4,938.3	4,995.9	4,876.0	15.6	20.3	-29.07	-371.1	-891.3	275.9	253.9	21.91	12.590		

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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3I-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,036.7	5,095.6	4,972.6	16.0	20.7	-28.90	-380.2	-914.3	283.5	261.2	22.33	12.697		
5,200.0	5,135.1	5,195.3	5,069.2	16.3	21.2	-28.73	-389.3	-937.3	291.2	268.4	22.75	12.799		
5,300.0	5,233.5	5,295.0	5,165.8	16.7	21.7	-28.58	-398.3	-960.3	298.8	275.7	23.17	12.898		
5,400.0	5,332.0	5,394.7	5,262.4	17.0	22.2	-28.43	-407.4	-983.3	306.5	282.9	23.59	12.993		
5,500.0	5,430.4	5,494.4	5,358.9	17.4	22.6	-28.29	-416.5	-1,006.3	314.2	290.1	24.01	13.085		
5,600.0	5,528.8	5,594.1	5,455.5	17.7	23.1	-28.15	-425.5	-1,029.3	321.8	297.4	24.43	13.174		
5,700.0	5,627.2	5,693.8	5,552.1	18.1	23.6	-28.02	-434.6	-1,052.3	329.5	304.6	24.85	13.259		
5,800.0	5,725.7	5,793.5	5,648.7	18.5	24.1	-27.90	-443.7	-1,075.3	337.1	311.9	25.27	13.342		
5,900.0	5,824.1	5,893.2	5,745.3	18.8	24.5	-27.78	-452.7	-1,098.3	344.8	319.1	25.69	13.422		
6,000.0	5,922.5	5,992.9	5,841.9	19.2	25.0	-27.67	-461.8	-1,121.3	352.5	326.4	26.11	13.499		
6,100.0	6,020.9	6,092.6	5,938.5	19.5	25.5	-27.56	-470.9	-1,144.3	360.2	333.6	26.53	13.574		
6,200.0	6,119.4	6,192.3	6,035.1	19.9	26.0	-27.46	-479.9	-1,167.3	367.8	340.9	26.96	13.646		
6,300.0	6,217.8	6,292.1	6,131.7	20.2	26.4	-27.36	-489.0	-1,190.3	375.5	348.1	27.38	13.716		
6,400.0	6,316.2	6,391.8	6,228.2	20.6	26.9	-27.26	-498.1	-1,213.3	383.2	355.4	27.80	13.784		
6,500.0	6,414.6	6,491.5	6,324.8	21.0	27.4	-27.17	-507.1	-1,236.3	390.9	362.6	28.22	13.850		
6,600.0	6,513.1	6,591.2	6,421.4	21.3	27.9	-27.08	-516.2	-1,259.3	398.5	369.9	28.64	13.914		
6,700.0	6,611.5	6,690.9	6,518.0	21.7	28.3	-27.00	-525.3	-1,282.3	406.2	377.2	29.06	13.976		
6,800.0	6,709.9	6,790.6	6,614.6	22.0	28.8	-26.92	-534.3	-1,305.3	413.9	384.4	29.49	14.037		
6,900.0	6,808.4	6,890.3	6,711.2	22.4	29.3	-26.84	-543.4	-1,328.3	421.6	391.7	29.91	14.095		
7,000.0	6,906.4	6,990.0	6,807.8	22.8	29.8	0.81	-552.5	-1,351.3	426.7	396.6	30.09	14.181		
7,100.0	7,001.7	7,088.5	6,903.3	23.2	30.2	22.23	-561.4	-1,374.0	420.9	392.2	28.63	14.699		
7,200.0	7,091.3	7,182.9	6,994.7	23.8	30.7	35.35	-570.0	-1,395.8	405.1	378.9	26.18	15.474		
7,300.0	7,172.4	7,307.3	7,115.5	24.4	31.2	51.67	-568.5	-1,424.5	378.6	353.3	25.28	14.979		
7,400.0	7,242.7	7,382.1	7,187.0	25.1	31.4	66.44	-554.7	-1,441.6	351.1	322.1	28.98	12.118		
7,495.2	7,297.4	7,417.5	7,220.0	25.8	31.5	74.48	-544.9	-1,449.4	340.1	307.9	32.22	10.556		
7,500.0	7,299.8	7,418.6	7,221.0	25.9	31.5	74.71	-544.6	-1,449.7	340.1	307.8	32.33	10.522		
7,600.0	7,342.2	7,430.2	7,231.7	26.7	31.5	76.03	-540.9	-1,452.2	354.9	321.1	33.82	10.495		
7,700.0	7,368.5	7,426.1	7,227.9	27.7	31.5	71.56	-542.2	-1,451.3	394.0	359.6	34.44	11.441		
7,800.0	7,378.0	7,411.6	7,214.5	28.7	31.4	62.84	-546.7	-1,448.1	449.9	414.9	35.01	12.853		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3J-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	86.27	3.6	56.0	56.1					
100.0	100.0	101.0	101.0	0.2	0.2	86.27	3.6	56.0	56.1	55.8	0.31	183.587		
200.0	200.0	201.0	201.0	0.3	0.3	86.27	3.6	56.0	56.1	55.4	0.65	85.674		
300.0	300.0	301.5	301.5	0.5	0.5	86.36	3.5	55.7	55.9	54.9	1.00	55.617		
400.0	400.0	402.3	402.3	0.7	0.7	87.11	2.7	54.1	54.2	52.9	1.36	39.984		
500.0	500.0	503.1	503.1	0.9	0.9	-166.84	1.1	51.0	51.9	50.2	1.71	30.380		
600.0	600.0	603.9	603.7	1.0	1.1	-164.90	-1.3	46.2	49.7	47.6	2.06	24.086		
700.0	699.9	704.6	704.1	1.2	1.3	-162.37	-4.5	39.9	47.6	45.2	2.42	19.677		
800.0	799.7	805.3	804.4	1.4	1.5	-159.19	-8.5	32.0	45.9	43.1	2.79	16.441		
900.0	899.4	905.9	904.4	1.6	1.7	-155.35	-13.3	22.5	44.5	41.3	3.18	13.984		
1,000.0	998.9	1,006.4	1,004.2	1.8	2.0	-150.87	-18.9	11.5	43.5	39.9	3.60	12.075		
1,100.0	1,098.3	1,106.9	1,103.7	2.1	2.3	-145.82	-25.2	-1.1	42.9	38.9	4.06	10.567		
1,136.2	1,134.2	1,143.3	1,139.6	2.2	2.4	-143.87	-27.7	-6.0	42.9	38.7	4.25	10.097 CC		
1,200.0	1,197.4	1,207.3	1,202.8	2.3	2.6	-140.34	-32.4	-15.2	43.0	38.4	4.59	9.371		
1,300.0	1,296.3	1,307.6	1,301.6	2.6	2.9	-134.61	-40.3	-30.9	43.8	38.6	5.20	8.426		
1,400.0	1,394.9	1,407.9	1,400.0	2.9	3.3	-128.88	-49.0	-48.1	45.3	39.4	5.89	7.693		
1,500.0	1,493.4	1,507.9	1,497.9	3.3	3.7	-123.02	-58.4	-66.6	47.3	40.6	6.64	7.116		
1,600.0	1,591.8	1,607.8	1,595.6	3.6	4.1	-117.49	-67.8	-85.2	49.7	42.2	7.43	6.684		
1,700.0	1,690.2	1,707.7	1,693.2	3.9	4.5	-112.51	-77.2	-103.8	52.5	44.2	8.22	6.379		
1,800.0	1,788.6	1,807.5	1,790.9	4.3	4.9	-108.06	-86.6	-122.5	55.6	46.6	9.02	6.169		
1,900.0	1,887.1	1,907.4	1,888.5	4.6	5.2	-104.12	-96.1	-141.1	59.1	49.3	9.80	6.029		
2,000.0	1,985.5	2,007.3	1,986.2	5.0	5.6	-100.62	-105.5	-159.8	62.8	52.2	10.57	5.942		
2,100.0	2,083.9	2,107.1	2,083.8	5.3	6.0	-97.52	-114.9	-178.4	66.7	55.4	11.32	5.891		
2,200.0	2,182.3	2,207.0	2,181.5	5.7	6.4	-94.78	-124.4	-197.0	70.8	58.7	12.07	5.868		
2,300.0	2,280.8	2,306.8	2,279.1	6.0	6.9	-92.33	-133.8	-215.7	75.0	62.2	12.79	5.865		
2,400.0	2,379.2	2,406.7	2,376.8	6.4	7.3	-90.16	-143.2	-234.3	79.4	65.9	13.51	5.876		
2,500.0	2,477.6	2,506.6	2,474.4	6.7	7.7	-88.21	-152.7	-253.0	83.9	69.6	14.22	5.898		
2,600.0	2,576.0	2,606.4	2,572.1	7.1	8.1	-86.46	-162.1	-271.6	88.4	73.5	14.92	5.926		
2,700.0	2,674.5	2,706.3	2,669.7	7.4	8.5	-84.88	-171.5	-290.2	93.0	77.4	15.61	5.960		
2,800.0	2,772.9	2,806.1	2,767.4	7.8	8.9	-83.45	-181.0	-308.9	97.7	81.4	16.29	5.998		
2,900.0	2,871.3	2,906.0	2,865.0	8.1	9.3	-82.15	-190.4	-327.5	102.4	85.5	16.97	6.037		
3,000.0	2,969.7	3,005.9	2,962.7	8.5	9.7	-80.97	-199.8	-346.2	107.2	89.6	17.64	6.078		
3,100.0	3,068.2	3,105.7	3,060.4	8.8	10.1	-79.89	-209.3	-364.8	112.1	93.8	18.31	6.120		
3,200.0	3,166.6	3,205.6	3,158.0	9.2	10.5	-78.90	-218.7	-383.4	116.9	98.0	18.98	6.162		
3,300.0	3,265.0	3,305.5	3,255.7	9.5	10.9	-77.99	-228.1	-402.1	121.8	102.2	19.64	6.203		
3,400.0	3,363.5	3,405.3	3,353.3	9.9	11.3	-77.15	-237.6	-420.7	126.8	106.5	20.30	6.245		
3,500.0	3,461.9	3,505.2	3,451.0	10.3	11.7	-76.37	-247.0	-439.3	131.7	110.7	20.95	6.285		
3,600.0	3,560.3	3,605.0	3,548.6	10.6	12.1	-75.65	-256.4	-458.0	136.7	115.1	21.61	6.325		
3,700.0	3,658.7	3,704.9	3,646.3	11.0	12.5	-74.98	-265.8	-476.6	141.7	119.4	22.26	6.364		
3,800.0	3,757.2	3,804.8	3,743.9	11.3	12.9	-74.36	-275.3	-495.3	146.7	123.8	22.91	6.402		
3,900.0	3,855.6	3,904.6	3,841.6	11.7	13.4	-73.77	-284.7	-513.9	151.7	128.1	23.56	6.439		
4,000.0	3,954.0	4,004.5	3,939.2	12.0	13.8	-73.23	-294.1	-532.5	156.8	132.5	24.21	6.475		
4,100.0	4,052.4	4,104.4	4,036.9	12.4	14.2	-72.71	-303.6	-551.2	161.8	137.0	24.85	6.510		
4,200.0	4,150.9	4,204.2	4,134.5	12.7	14.6	-72.23	-313.0	-569.8	166.9	141.4	25.50	6.544		
4,300.0	4,249.3	4,304.1	4,232.2	13.1	15.0	-71.78	-322.4	-588.5	172.0	145.8	26.14	6.577		
4,400.0	4,347.7	4,403.9	4,329.8	13.5	15.4	-71.36	-331.9	-607.1	177.0	150.3	26.79	6.609		
4,500.0	4,446.1	4,503.8	4,427.5	13.8	15.8	-70.95	-341.3	-625.7	182.1	154.7	27.43	6.640		
4,600.0	4,544.6	4,603.7	4,525.1	14.2	16.2	-70.57	-350.7	-644.4	187.2	159.2	28.07	6.670		
4,700.0	4,643.0	4,703.5	4,622.8	14.5	16.6	-70.21	-360.2	-663.0	192.4	163.7	28.71	6.699		
4,800.0	4,741.4	4,803.4	4,720.5	14.9	17.0	-69.87	-369.6	-681.6	197.5	168.1	29.35	6.728		
4,900.0	4,839.8	4,903.3	4,818.1	15.2	17.4	-69.55	-379.0	-700.3	202.6	172.6	29.99	6.755		
5,000.0	4,938.3	5,003.1	4,915.8	15.6	17.8	-69.24	-388.5	-718.9	207.7	177.1	30.63	6.782		

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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3J-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,036.7	5,103.0	5,013.4	16.0	18.3	-68.94	-397.9	-737.6	212.9	181.6	31.27	6.807		
5,200.0	5,135.1	5,202.8	5,111.1	16.3	18.7	-68.66	-407.3	-756.2	218.0	186.1	31.91	6.832		
5,300.0	5,233.5	5,302.7	5,208.7	16.7	19.1	-68.40	-416.8	-774.8	223.2	190.6	32.55	6.857		
5,400.0	5,332.0	5,402.6	5,306.4	17.0	19.5	-68.14	-426.2	-793.5	228.3	195.2	33.19	6.880		
5,500.0	5,430.4	5,502.4	5,404.0	17.4	19.9	-67.90	-435.6	-812.1	233.5	199.7	33.83	6.903		
5,600.0	5,528.8	5,602.3	5,501.7	17.7	20.3	-67.67	-445.0	-830.8	238.7	204.2	34.46	6.925		
5,700.0	5,627.2	5,702.1	5,599.3	18.1	20.7	-67.44	-454.5	-849.4	243.8	208.7	35.10	6.947		
5,800.0	5,725.7	5,802.0	5,697.0	18.5	21.1	-67.23	-463.9	-868.0	249.0	213.3	35.74	6.968		
5,900.0	5,824.1	5,901.9	5,794.6	18.8	21.5	-67.02	-473.3	-886.7	254.2	217.8	36.37	6.988		
6,000.0	5,922.5	6,001.7	5,892.3	19.2	21.9	-66.83	-482.8	-905.3	259.4	222.3	37.01	7.008		
6,100.0	6,020.9	6,101.6	5,989.9	19.5	22.3	-66.64	-492.2	-923.9	264.5	226.9	37.65	7.027		
6,200.0	6,119.4	6,201.5	6,087.6	19.9	22.8	-66.46	-501.6	-942.6	269.7	231.4	38.28	7.046		
6,300.0	6,217.8	6,301.3	6,185.2	20.2	23.2	-66.28	-511.1	-961.2	274.9	236.0	38.92	7.064		
6,400.0	6,316.2	6,401.2	6,282.9	20.6	23.6	-66.11	-520.5	-979.9	280.1	240.5	39.55	7.081		
6,500.0	6,414.6	6,501.0	6,380.5	21.0	24.0	-65.95	-529.9	-998.5	285.3	245.1	40.19	7.099		
6,600.0	6,513.1	6,600.9	6,478.2	21.3	24.4	-65.79	-539.4	-1,017.1	290.5	249.7	40.82	7.115		
6,700.0	6,611.5	6,700.8	6,575.9	21.7	24.8	-65.64	-548.8	-1,035.8	295.7	254.2	41.46	7.132		
6,800.0	6,709.9	6,800.6	6,673.5	22.0	25.2	-65.50	-558.2	-1,054.4	300.9	258.8	42.09	7.148		
6,900.0	6,808.4	6,910.8	6,781.3	22.4	25.6	-65.33	-568.3	-1,075.0	305.9	263.1	42.76	7.154		
7,000.0	6,906.4	7,111.0	6,975.6	22.8	26.1	-35.49	-545.6	-1,112.1	286.7	243.8	42.92	6.680		
7,100.0	7,001.7	7,251.6	7,101.9	23.2	26.2	-7.20	-489.4	-1,136.2	226.9	187.6	39.26	5.778		
7,200.0	7,091.3	7,327.1	7,163.0	23.8	26.2	26.39	-446.8	-1,147.8	145.9	117.5	28.47	5.126		
7,300.0	7,172.4	7,359.6	7,187.6	24.4	26.2	66.37	-426.0	-1,152.5	68.6	40.8	27.75	2.471		
7,339.1	7,201.3	7,364.7	7,191.3	24.6	26.1	73.84	-422.6	-1,153.2	56.6	26.8	29.84	1.897 ES, SF		
7,400.0	7,242.7	7,366.6	7,192.7	25.1	26.1	73.83	-421.3	-1,153.5	83.0	53.0	30.02	2.766		
7,500.0	7,299.8	7,358.1	7,186.5	25.9	26.2	49.96	-427.0	-1,152.3	169.7	144.5	25.15	6.746		
7,600.0	7,342.2	7,339.9	7,172.8	26.7	26.2	23.24	-438.8	-1,149.7	262.6	241.7	20.95	12.539		
7,700.0	7,368.5	7,315.1	7,153.7	27.7	26.2	9.52	-454.1	-1,146.1	353.3	335.2	18.07	19.555		
7,800.0	7,378.0	7,285.8	7,130.3	28.7	26.2	2.87	-471.1	-1,141.6	439.1	422.6	16.46	26.671		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	61.6	61.6					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	61.6	61.6	61.2	0.31	201.518		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	61.6	61.6	60.9	0.65	94.042		
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	61.6	61.6	60.5	1.00	61.332		
400.0	400.0	401.5	401.5	0.7	0.7	90.12	-0.1	61.4	61.4	60.0	1.35	45.338		
500.0	500.0	502.3	502.3	0.9	0.9	-164.47	-1.2	59.9	60.8	59.1	1.70	35.643		
600.0	600.0	603.2	603.1	1.0	1.0	-163.17	-3.2	57.0	60.4	58.4	2.06	29.366		
657.0	656.9	660.7	660.5	1.1	1.1	-162.18	-4.8	54.6	60.4	58.1	2.26	26.700 CC		
700.0	699.9	704.0	703.8	1.2	1.2	-161.32	-6.2	52.6	60.4	58.0	2.41	25.012		
800.0	799.7	804.8	804.3	1.4	1.4	-158.97	-10.3	46.8	60.7	58.0	2.78	21.847 ES		
900.0	899.4	905.5	904.6	1.6	1.7	-156.16	-15.4	39.5	61.5	58.4	3.16	19.467		
1,000.0	998.9	1,006.2	1,004.8	1.8	1.9	-152.96	-21.5	30.8	62.8	59.2	3.56	17.629		
1,100.0	1,098.3	1,106.9	1,104.7	2.1	2.1	-149.47	-28.5	20.6	64.6	60.6	4.00	16.178		
1,200.0	1,197.4	1,207.4	1,204.2	2.3	2.4	-145.81	-36.6	9.0	67.1	62.6	4.47	15.011		
1,300.0	1,296.3	1,307.7	1,303.3	2.6	2.7	-142.17	-45.6	-3.8	70.4	65.4	4.99	14.093		
1,400.0	1,394.9	1,407.5	1,401.8	2.9	3.0	-139.54	-54.7	-16.9	75.0	69.5	5.54	13.543		
1,500.0	1,493.4	1,507.4	1,500.4	3.3	3.3	-137.79	-63.8	-30.0	80.7	74.6	6.10	13.221		
1,600.0	1,591.8	1,607.2	1,598.9	3.6	3.7	-136.30	-72.9	-43.0	86.5	79.8	6.68	12.935		
1,700.0	1,690.2	1,707.0	1,697.4	3.9	4.0	-134.99	-82.0	-56.1	92.3	85.0	7.28	12.679		
1,800.0	1,788.6	1,806.8	1,796.0	4.3	4.3	-133.83	-91.1	-69.1	98.1	90.2	7.88	12.452		
1,900.0	1,887.1	1,906.6	1,894.5	4.6	4.6	-132.81	-100.2	-82.2	104.0	95.5	8.49	12.249		
2,000.0	1,985.5	2,006.4	1,993.0	5.0	4.9	-131.89	-109.3	-95.3	109.9	100.8	9.11	12.068		
2,100.0	2,083.9	2,106.2	2,091.6	5.3	5.3	-131.07	-118.4	-108.3	115.8	106.1	9.73	11.906		
2,200.0	2,182.3	2,206.0	2,190.1	5.7	5.6	-130.33	-127.5	-121.4	121.8	111.4	10.36	11.760		
2,300.0	2,280.8	2,305.8	2,288.6	6.0	5.9	-129.66	-136.6	-134.4	127.7	116.8	10.99	11.628		
2,400.0	2,379.2	2,405.7	2,387.2	6.4	6.2	-129.05	-145.7	-147.5	133.7	122.1	11.62	11.509		
2,500.0	2,477.6	2,505.5	2,485.7	6.7	6.5	-128.49	-154.8	-160.6	139.7	127.5	12.26	11.401		
2,600.0	2,576.0	2,605.3	2,584.2	7.1	6.9	-127.98	-163.9	-173.6	145.8	132.9	12.90	11.303		
2,700.0	2,674.5	2,705.1	2,682.8	7.4	7.2	-127.51	-173.0	-186.7	151.8	138.2	13.54	11.212		
2,800.0	2,772.9	2,804.9	2,781.3	7.8	7.5	-127.07	-182.1	-199.7	157.8	143.6	14.18	11.130		
2,900.0	2,871.3	2,904.7	2,879.8	8.1	7.9	-126.67	-191.2	-212.8	163.9	149.0	14.82	11.054		
3,000.0	2,969.7	3,004.5	2,978.4	8.5	8.2	-126.29	-200.3	-225.9	169.9	154.4	15.47	10.984		
3,100.0	3,068.2	3,104.3	3,076.9	8.8	8.5	-125.94	-209.4	-238.9	176.0	159.8	16.12	10.919		
3,200.0	3,166.6	3,204.1	3,175.4	9.2	8.8	-125.61	-218.5	-252.0	182.0	165.3	16.76	10.859		
3,300.0	3,265.0	3,303.9	3,274.0	9.5	9.2	-125.31	-227.6	-265.0	188.1	170.7	17.41	10.803		
3,400.0	3,363.5	3,403.8	3,372.5	9.9	9.5	-125.02	-236.7	-278.1	194.2	176.1	18.06	10.751		
3,500.0	3,461.9	3,503.6	3,471.0	10.3	9.8	-124.75	-245.9	-291.2	200.2	181.5	18.71	10.702		
3,600.0	3,560.3	3,603.4	3,569.6	10.6	10.1	-124.50	-255.0	-304.2	206.3	187.0	19.36	10.657		
3,700.0	3,658.7	3,703.2	3,668.1	11.0	10.5	-124.26	-264.1	-317.3	212.4	192.4	20.01	10.614		
3,800.0	3,757.2	3,803.0	3,766.6	11.3	10.8	-124.04	-273.2	-330.3	218.5	197.8	20.66	10.574		
3,900.0	3,855.6	3,902.8	3,865.2	11.7	11.1	-123.83	-282.3	-343.4	224.6	203.3	21.32	10.536		
4,000.0	3,954.0	4,002.6	3,963.7	12.0	11.5	-123.62	-291.4	-356.5	230.7	208.7	21.97	10.501		
4,100.0	4,052.4	4,102.4	4,062.2	12.4	11.8	-123.43	-300.5	-369.5	236.8	214.2	22.62	10.467		
4,200.0	4,150.9	4,202.2	4,160.8	12.7	12.1	-123.25	-309.6	-382.6	242.9	219.6	23.28	10.436		
4,300.0	4,249.3	4,302.1	4,259.3	13.1	12.4	-123.08	-318.7	-395.6	249.0	225.1	23.93	10.406		
4,400.0	4,347.7	4,401.9	4,357.8	13.5	12.8	-122.91	-327.8	-408.7	255.1	230.5	24.58	10.377		
4,500.0	4,446.1	4,501.7	4,456.4	13.8	13.1	-122.76	-336.9	-421.8	261.2	236.0	25.24	10.350		
4,600.0	4,544.6	4,601.5	4,554.9	14.2	13.4	-122.61	-346.0	-434.8	267.3	241.4	25.89	10.325		
4,700.0	4,643.0	4,701.3	4,653.4	14.5	13.8	-122.46	-355.1	-447.9	273.4	246.9	26.55	10.300		
4,800.0	4,741.4	4,801.1	4,752.0	14.9	14.1	-122.33	-364.2	-460.9	279.5	252.3	27.20	10.277		
4,900.0	4,839.8	4,900.9	4,850.5	15.2	14.4	-122.20	-373.3	-474.0	285.7	257.8	27.86	10.255		
5,000.0	4,938.3	5,000.7	4,949.0	15.6	14.7	-122.07	-382.4	-487.1	291.8	263.3	28.51	10.234		

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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,036.7	5,100.5	5,047.6	16.0	15.1	-121.95	-391.5	-500.1	297.9	268.7	29.17	10.213		
5,200.0	5,135.1	5,200.4	5,146.1	16.3	15.4	-121.84	-400.6	-513.2	304.0	274.2	29.82	10.194		
5,300.0	5,233.5	5,300.2	5,244.6	16.7	15.7	-121.73	-409.7	-526.2	310.1	279.7	30.48	10.176		
5,400.0	5,332.0	5,400.0	5,343.2	17.0	16.1	-121.62	-418.8	-539.3	316.2	285.1	31.13	10.158		
5,500.0	5,430.4	5,499.8	5,441.7	17.4	16.4	-121.52	-427.9	-552.4	322.4	290.6	31.79	10.141		
5,600.0	5,528.8	5,599.6	5,540.2	17.7	16.7	-121.42	-437.0	-565.4	328.5	296.0	32.45	10.124		
5,700.0	5,627.2	5,699.4	5,638.8	18.1	17.0	-121.32	-446.1	-578.5	334.6	301.5	33.10	10.109		
5,800.0	5,725.7	5,799.2	5,737.3	18.5	17.4	-121.23	-455.2	-591.5	340.7	307.0	33.76	10.094		
5,900.0	5,824.1	5,899.0	5,835.8	18.8	17.7	-121.14	-464.3	-604.6	346.9	312.5	34.41	10.079		
6,000.0	5,922.5	5,998.8	5,934.4	19.2	18.0	-121.06	-473.4	-617.6	353.0	317.9	35.07	10.065		
6,100.0	6,020.9	6,098.7	6,032.9	19.5	18.4	-120.97	-482.5	-630.7	359.1	323.4	35.73	10.052		
6,200.0	6,119.4	6,198.5	6,131.4	19.9	18.7	-120.90	-491.6	-643.8	365.2	328.9	36.38	10.039		
6,300.0	6,217.8	6,298.3	6,230.0	20.2	19.0	-120.82	-500.7	-656.8	371.4	334.3	37.04	10.026		
6,400.0	6,316.2	6,398.1	6,328.5	20.6	19.4	-120.74	-509.8	-669.9	377.5	339.8	37.70	10.014		
6,500.0	6,414.6	6,497.9	6,427.0	21.0	19.7	-120.67	-518.9	-682.9	383.6	345.3	38.35	10.002		
6,600.0	6,513.1	6,597.7	6,525.6	21.3	20.0	-120.60	-528.0	-696.0	389.8	350.8	39.01	9.991		
6,700.0	6,611.5	6,697.5	6,624.1	21.7	20.3	-120.53	-537.1	-709.1	395.9	356.2	39.67	9.980		
6,800.0	6,709.9	6,797.3	6,722.6	22.0	20.7	-120.47	-546.3	-722.1	402.0	361.7	40.32	9.970		
6,900.0	6,808.4	6,897.1	6,821.2	22.4	21.0	-120.40	-555.4	-735.2	408.2	367.2	40.98	9.959		
7,000.0	6,906.4	6,997.0	6,919.7	22.8	21.3	-93.24	-564.5	-748.2	411.7	370.1	41.60	9.896		
7,100.0	7,001.7	7,123.9	7,045.2	23.2	21.7	-78.04	-572.9	-764.9	403.2	362.0	41.21	9.784		
7,200.0	7,091.3	7,271.9	7,190.1	23.8	21.9	-83.24	-552.1	-784.1	373.0	335.0	38.00	9.816		
7,300.0	7,172.4	7,357.2	7,269.5	24.4	21.8	-94.06	-523.2	-794.6	336.8	302.8	33.98	9.910		
7,400.0	7,242.7	7,397.2	7,305.2	25.1	21.8	-100.60	-505.6	-799.3	315.5	283.4	32.18	9.805		
7,428.2	7,260.2	7,402.9	7,310.1	25.3	21.8	-101.25	-502.9	-800.0	314.3	282.2	32.15	9.777 SF		
7,500.0	7,299.8	7,409.5	7,315.8	25.9	21.8	-100.66	-499.8	-800.7	322.3	289.5	32.74	9.842		
7,600.0	7,342.2	7,400.0	7,307.6	26.7	21.8	-94.27	-504.3	-799.7	357.5	322.7	34.79	10.276		
7,700.0	7,368.5	7,389.1	7,298.0	27.7	21.8	-85.39	-509.4	-798.4	412.7	376.6	36.11	11.427		
7,800.0	7,378.0	7,366.3	7,277.7	28.7	21.8	-73.64	-519.5	-795.7	478.3	443.1	35.19	13.590		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3L-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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	1.0	1.0	0.0	0.0	86.76	3.6	64.3	64.5					
100.0	100.0	101.0	101.0	0.2	0.2	86.76	3.6	64.3	64.5	64.1	0.31	211.016		
200.0	200.0	201.0	201.0	0.3	0.3	86.76	3.6	64.3	64.5	63.8	0.65	98.474		
300.0	300.0	301.0	301.0	0.5	0.5	86.76	3.6	64.3	64.5	63.4	1.00	64.222		
400.0	400.0	401.0	401.0	0.7	0.7	86.76	3.6	64.3	64.5	63.1	1.35	47.648		
402.6	402.6	403.6	403.6	0.7	0.7	-168.59	3.6	64.3	64.5	63.1	1.36	47.331 CC		
500.0	500.0	501.8	501.8	0.9	0.9	-168.18	3.0	63.8	64.7	63.0	1.70	37.973 ES		
600.0	600.0	602.6	602.5	1.0	1.0	-166.97	1.0	62.0	65.4	63.4	2.06	31.821		
700.0	699.9	703.3	703.2	1.2	1.2	-165.02	-2.4	59.1	66.7	64.3	2.41	27.653		
800.0	799.7	804.0	803.7	1.4	1.4	-162.42	-7.1	55.0	68.6	65.8	2.78	24.716		
900.0	899.4	904.6	904.0	1.6	1.6	-159.30	-13.0	49.7	71.3	68.1	3.15	22.597		
1,000.0	998.9	1,005.2	1,004.1	1.8	1.9	-155.81	-20.3	43.3	74.8	71.2	3.55	21.044		
1,100.0	1,098.3	1,105.6	1,103.9	2.1	2.1	-152.10	-29.0	35.7	79.3	75.3	3.98	19.897		
1,200.0	1,197.4	1,205.5	1,202.9	2.3	2.3	-148.71	-38.4	27.4	85.0	80.6	4.44	19.155		
1,300.0	1,296.3	1,305.1	1,301.8	2.6	2.6	-146.34	-47.8	19.2	92.5	87.6	4.91	18.826		
1,400.0	1,394.9	1,404.7	1,400.5	2.9	2.9	-144.89	-57.2	10.9	101.5	96.1	5.40	18.794		
1,500.0	1,493.4	1,504.2	1,499.2	3.3	3.1	-144.06	-66.6	2.6	111.5	105.6	5.90	18.899		
1,600.0	1,591.8	1,603.7	1,597.9	3.6	3.4	-143.38	-76.0	-5.6	121.5	115.1	6.41	18.969		
1,700.0	1,690.2	1,703.2	1,696.6	3.9	3.7	-142.80	-85.4	-13.9	131.6	124.7	6.92	19.011		
1,800.0	1,788.6	1,802.6	1,795.3	4.3	3.9	-142.31	-94.9	-22.2	141.6	134.2	7.44	19.036		
1,900.0	1,887.1	1,902.1	1,894.0	4.6	4.2	-141.88	-104.3	-30.4	151.7	143.8	7.96	19.048		
2,000.0	1,985.5	2,001.6	1,992.7	5.0	4.5	-141.51	-113.7	-38.7	161.8	153.3	8.49	19.052		
2,100.0	2,083.9	2,101.1	2,091.4	5.3	4.8	-141.18	-123.1	-46.9	171.9	162.9	9.02	19.049		
2,200.0	2,182.3	2,200.6	2,190.1	5.7	5.0	-140.88	-132.5	-55.2	182.0	172.4	9.56	19.042		
2,300.0	2,280.8	2,300.1	2,288.8	6.0	5.3	-140.62	-141.9	-63.5	192.0	182.0	10.09	19.032		
2,400.0	2,379.2	2,399.6	2,387.5	6.4	5.6	-140.38	-151.3	-71.7	202.1	191.5	10.63	19.020		
2,500.0	2,477.6	2,499.0	2,486.2	6.7	5.9	-140.17	-160.7	-80.0	212.2	201.1	11.17	19.006		
2,600.0	2,576.0	2,598.5	2,584.9	7.1	6.1	-139.97	-170.1	-88.3	222.3	210.6	11.71	18.992		
2,700.0	2,674.5	2,698.0	2,683.6	7.4	6.4	-139.80	-179.5	-96.5	232.4	220.2	12.25	18.978		
2,800.0	2,772.9	2,797.5	2,782.3	7.8	6.7	-139.63	-188.9	-104.8	242.5	229.8	12.79	18.963		
2,900.0	2,871.3	2,897.0	2,881.0	8.1	7.0	-139.48	-198.3	-113.0	252.7	239.3	13.33	18.948		
3,000.0	2,969.7	2,996.5	2,979.7	8.5	7.2	-139.35	-207.7	-121.3	262.8	248.9	13.88	18.934		
3,100.0	3,068.2	3,096.0	3,078.4	8.8	7.5	-139.22	-217.2	-129.6	272.9	258.4	14.42	18.919		
3,200.0	3,166.6	3,195.4	3,177.0	9.2	7.8	-139.10	-226.6	-137.8	283.0	268.0	14.97	18.905		
3,300.0	3,265.0	3,294.9	3,275.7	9.5	8.1	-138.99	-236.0	-146.1	293.1	277.6	15.51	18.892		
3,400.0	3,363.5	3,394.4	3,374.4	9.9	8.4	-138.88	-245.4	-154.4	303.2	287.1	16.06	18.878		
3,500.0	3,461.9	3,493.9	3,473.1	10.3	8.6	-138.79	-254.8	-162.6	313.3	296.7	16.61	18.865		
3,600.0	3,560.3	3,593.4	3,571.8	10.6	8.9	-138.70	-264.2	-170.9	323.4	306.3	17.16	18.853		
3,700.0	3,658.7	3,692.9	3,670.5	11.0	9.2	-138.61	-273.6	-179.1	333.5	315.8	17.70	18.841		
3,800.0	3,757.2	3,792.4	3,769.2	11.3	9.5	-138.53	-283.0	-187.4	343.7	325.4	18.25	18.829		
3,900.0	3,855.6	3,891.8	3,867.9	11.7	9.7	-138.46	-292.4	-195.7	353.8	335.0	18.80	18.818		
4,000.0	3,954.0	3,991.3	3,966.6	12.0	10.0	-138.38	-301.8	-203.9	363.9	344.5	19.35	18.807		
4,100.0	4,052.4	4,090.8	4,065.3	12.4	10.3	-138.32	-311.2	-212.2	374.0	354.1	19.90	18.796		
4,200.0	4,150.9	4,190.3	4,164.0	12.7	10.6	-138.25	-320.6	-220.5	384.1	363.7	20.45	18.786		
4,300.0	4,249.3	4,289.8	4,262.7	13.1	10.9	-138.19	-330.0	-228.7	394.2	373.3	21.00	18.776		
4,400.0	4,347.7	4,389.3	4,361.4	13.5	11.1	-138.13	-339.5	-237.0	404.4	382.8	21.55	18.766		
4,500.0	4,446.1	4,488.8	4,460.1	13.8	11.4	-138.08	-348.9	-245.2	414.5	392.4	22.10	18.757		
4,600.0	4,544.6	4,588.2	4,558.8	14.2	11.7	-138.03	-358.3	-253.5	424.6	402.0	22.65	18.748		
4,700.0	4,643.0	4,687.7	4,657.5	14.5	12.0	-137.98	-367.7	-261.8	434.7	411.5	23.20	18.740		
4,800.0	4,741.4	4,787.2	4,756.2	14.9	12.3	-137.93	-377.1	-270.0	444.8	421.1	23.75	18.731		
4,900.0	4,839.8	4,886.7	4,854.9	15.2	12.5	-137.89	-386.5	-278.3	455.0	430.7	24.30	18.723		
5,000.0	4,938.3	4,986.2	4,953.6	15.6	12.8	-137.84	-395.9	-286.6	465.1	440.2	24.85	18.715		

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 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File) - File 3L-32H-K268 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference				Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
5,100.0	5,036.7	5,085.7	5,052.2	16.0	13.1	-137.80	-405.3	-294.8	475.2	449.8	25.40	18.708						
5,200.0	5,135.1	5,185.2	5,150.9	16.3	13.4	-137.76	-414.7	-303.1	485.3	459.4	25.95	18.700						
5,300.0	5,233.5	5,284.6	5,249.6	16.7	13.6	-137.72	-424.1	-311.4	495.4	468.9	26.50	18.693 SF						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	81.1	81.1					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	81.1	81.1	80.8	0.31	265.637		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	81.1	81.1	80.5	0.65	123.962		
300.0	300.0	301.5	301.5	0.5	0.5	90.60	-0.8	80.8	80.8	79.8	1.00	80.487		
400.0	400.0	401.9	401.8	0.7	0.7	92.40	-3.3	80.0	80.0	78.7	1.35	59.095		
476.0	476.0	478.1	478.0	0.8	0.8	-160.86	-6.4	78.9	79.6	78.0	1.64	48.692 CC		
500.0	500.0	502.2	502.0	0.9	0.9	-160.10	-7.5	78.5	79.7	77.9	1.72	46.253 ES		
600.0	600.0	602.3	602.0	1.0	1.1	-156.50	-13.3	76.4	80.8	78.7	2.10	38.523		
700.0	699.9	702.3	701.7	1.2	1.3	-152.35	-20.7	73.8	83.5	81.1	2.49	33.581		
800.0	799.7	802.1	801.0	1.4	1.5	-148.24	-29.4	70.8	88.1	85.3	2.89	30.488		
900.0	899.4	901.8	900.3	1.6	1.7	-145.10	-38.1	67.7	94.6	91.3	3.30	28.632		
1,000.0	998.9	1,001.4	999.4	1.8	2.0	-142.94	-46.8	64.6	102.6	98.9	3.72	27.558		
1,100.0	1,098.3	1,100.9	1,098.5	2.1	2.2	-141.64	-55.5	61.6	112.2	108.0	4.15	26.996		
1,200.0	1,197.4	1,200.3	1,197.5	2.3	2.4	-141.04	-64.2	58.5	123.1	118.5	4.59	26.786 SF		
1,300.0	1,296.3	1,299.5	1,296.3	2.6	2.7	-141.00	-72.8	55.4	135.3	130.3	5.04	26.834		
1,400.0	1,394.9	1,398.6	1,394.9	2.9	2.9	-141.36	-81.5	52.4	149.0	143.5	5.50	27.081		
1,500.0	1,493.4	1,497.5	1,493.4	3.3	3.1	-141.97	-90.1	49.3	163.5	157.5	5.96	27.416		
1,600.0	1,591.8	1,596.4	1,591.9	3.6	3.4	-142.51	-98.7	46.3	178.1	171.6	6.43	27.697		
1,700.0	1,690.2	1,695.3	1,690.4	3.9	3.6	-142.96	-107.4	43.2	192.7	185.8	6.90	27.936		
1,800.0	1,788.6	1,794.3	1,788.9	4.3	3.8	-143.35	-116.0	40.2	207.3	199.9	7.36	28.142		
1,900.0	1,887.1	1,893.2	1,887.4	4.6	4.1	-143.68	-124.6	37.1	221.9	214.0	7.83	28.322		
2,000.0	1,985.5	1,992.1	1,985.9	5.0	4.3	-143.98	-133.3	34.1	236.5	228.2	8.30	28.480		
2,100.0	2,083.9	2,091.0	2,084.4	5.3	4.5	-144.24	-141.9	31.0	251.1	242.3	8.77	28.620		
2,200.0	2,182.3	2,189.9	2,182.9	5.7	4.8	-144.47	-150.6	28.0	265.7	256.5	9.24	28.746		
2,300.0	2,280.8	2,288.9	2,281.4	6.0	5.0	-144.68	-159.2	24.9	280.3	270.6	9.71	28.858		
2,400.0	2,379.2	2,387.8	2,379.9	6.4	5.2	-144.87	-167.8	21.9	295.0	284.8	10.18	28.960		
2,500.0	2,477.6	2,486.7	2,478.4	6.7	5.5	-145.04	-176.5	18.8	309.6	298.9	10.66	29.053		
2,600.0	2,576.0	2,585.6	2,576.9	7.1	5.7	-145.19	-185.1	15.8	324.2	313.1	11.13	29.137		
2,700.0	2,674.5	2,684.5	2,675.4	7.4	5.9	-145.33	-193.7	12.7	338.8	327.2	11.60	29.214		
2,800.0	2,772.9	2,783.5	2,773.9	7.8	6.2	-145.46	-202.4	9.7	353.5	341.4	12.07	29.285		
2,900.0	2,871.3	2,882.4	2,872.4	8.1	6.4	-145.58	-211.0	6.7	368.1	355.6	12.54	29.351		
3,000.0	2,969.7	2,981.3	2,970.9	8.5	6.6	-145.69	-219.6	3.6	382.8	369.7	13.01	29.412		
3,100.0	3,068.2	3,080.2	3,069.4	8.8	6.9	-145.79	-228.3	0.6	397.4	383.9	13.49	29.468		
3,200.0	3,166.6	3,179.1	3,167.9	9.2	7.1	-145.89	-236.9	-2.5	412.0	398.1	13.96	29.521		
3,300.0	3,265.0	3,278.1	3,266.4	9.5	7.3	-145.98	-245.6	-5.5	426.7	412.3	14.43	29.570		
3,400.0	3,363.5	3,377.0	3,364.9	9.9	7.6	-146.06	-254.2	-8.6	441.3	426.4	14.90	29.616		
3,500.0	3,461.9	3,475.9	3,463.4	10.3	7.8	-146.14	-262.8	-11.6	456.0	440.6	15.37	29.659		
3,600.0	3,560.3	3,574.8	3,561.8	10.6	8.0	-146.21	-271.5	-14.7	470.6	454.8	15.85	29.699		
3,700.0	3,658.7	3,673.7	3,660.3	11.0	8.3	-146.28	-280.1	-17.7	485.3	468.9	16.32	29.737		
3,800.0	3,757.2	3,772.7	3,758.8	11.3	8.5	-146.34	-288.7	-20.8	499.9	483.1	16.79	29.773		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3N-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Between Centres (ft)	Between Ellipses (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	87.51	3.6	83.9	84.0					
100.0	100.0	101.0	101.0	0.2	0.2	87.51	3.6	83.9	84.0	83.7	0.31	275.057		
200.0	200.0	201.0	201.0	0.3	0.3	87.51	3.6	83.9	84.0	83.4	0.65	128.360		
266.3	266.3	267.3	267.3	0.4	0.4	87.51	3.6	83.9	84.0	83.1	0.89	94.817 CC		
300.0	300.0	301.0	301.0	0.5	0.5	87.51	3.6	83.9	84.0	83.0	1.00	83.713		
400.0	400.0	400.8	400.8	0.7	0.7	88.11	2.8	84.1	84.2	82.8	1.35	62.227 ES		
500.0	500.0	500.5	500.4	0.9	0.9	-165.63	0.2	84.6	85.5	83.8	1.71	50.116		
600.0	600.0	600.0	599.9	1.0	1.0	-163.29	-4.1	85.5	88.9	86.9	2.06	43.080		
700.0	699.9	699.3	699.0	1.2	1.2	-160.45	-10.0	86.7	94.6	92.2	2.43	38.911		
800.0	799.7	798.4	797.7	1.4	1.4	-157.38	-17.6	88.2	102.7	99.9	2.81	36.533		
900.0	899.4	897.4	896.4	1.6	1.7	-154.46	-26.6	90.0	113.1	109.9	3.20	35.352		
1,000.0	998.9	996.6	995.1	1.8	1.9	-152.32	-35.7	91.8	125.4	121.8	3.60	34.869		
1,100.0	1,098.3	1,095.6	1,093.6	2.1	2.1	-150.90	-44.8	93.6	139.3	135.3	4.00	34.835 SF		
1,200.0	1,197.4	1,194.3	1,192.0	2.3	2.3	-150.04	-53.9	95.4	154.7	150.3	4.41	35.103		
1,300.0	1,296.3	1,292.9	1,290.1	2.6	2.6	-149.62	-62.9	97.3	171.7	166.9	4.82	35.585		
1,400.0	1,394.9	1,391.2	1,387.9	2.9	2.8	-149.52	-71.9	99.1	190.1	184.9	5.25	36.224		
1,500.0	1,493.4	1,489.3	1,485.6	3.3	3.0	-149.66	-81.0	100.9	209.6	203.9	5.68	36.883		
1,600.0	1,591.8	1,587.3	1,583.3	3.6	3.3	-149.79	-90.0	102.7	229.0	222.9	6.12	37.428		
1,700.0	1,690.2	1,685.4	1,680.9	3.9	3.5	-149.91	-99.0	104.5	248.5	241.9	6.56	37.887		
1,800.0	1,788.6	1,783.5	1,778.6	4.3	3.7	-150.00	-108.0	106.3	267.9	260.9	7.00	38.280		
1,900.0	1,887.1	1,881.6	1,876.2	4.6	3.9	-150.09	-117.0	108.1	287.4	279.9	7.44	38.619		
2,000.0	1,985.5	1,979.7	1,973.9	5.0	4.2	-150.16	-126.0	109.9	306.8	298.9	7.88	38.914		
2,100.0	2,083.9	2,077.8	2,071.5	5.3	4.4	-150.23	-135.1	111.7	326.3	318.0	8.33	39.173		
2,200.0	2,182.3	2,175.9	2,169.2	5.7	4.6	-150.29	-144.1	113.5	345.7	337.0	8.77	39.403		
2,300.0	2,280.8	2,274.0	2,266.8	6.0	4.9	-150.34	-153.1	115.3	365.2	356.0	9.22	39.607		
2,400.0	2,379.2	2,372.0	2,364.5	6.4	5.1	-150.38	-162.1	117.1	384.7	375.0	9.67	39.790		
2,500.0	2,477.6	2,470.1	2,462.2	6.7	5.3	-150.43	-171.1	118.9	404.1	394.0	10.11	39.955		
2,600.0	2,576.0	2,568.2	2,559.8	7.1	5.6	-150.46	-180.1	120.7	423.6	413.0	10.56	40.104		
2,700.0	2,674.5	2,666.3	2,657.5	7.4	5.8	-150.50	-189.2	122.5	443.0	432.0	11.01	40.240		
2,800.0	2,772.9	2,764.4	2,755.1	7.8	6.0	-150.53	-198.2	124.3	462.5	451.0	11.46	40.364		
2,900.0	2,871.3	2,862.5	2,852.8	8.1	6.3	-150.56	-207.2	126.2	481.9	470.0	11.91	40.477		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3O-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			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	1.0	1.0	0.0	0.0	90.00	0.0	89.5	89.5					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	89.5	89.5	89.2	0.31	293.117		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	89.5	89.5	88.9	0.65	136.788		
232.1	232.1	233.1	233.1	0.4	0.4	90.00	0.0	89.5	89.5	88.8	0.77	116.811 CC		
300.0	300.0	300.5	300.5	0.5	0.5	90.11	-0.2	89.7	89.7	88.7	1.00	89.415 ES		
400.0	400.0	400.0	400.0	0.7	0.7	90.99	-1.6	90.7	90.7	89.4	1.35	67.094		
500.0	500.0	498.5	498.4	0.9	0.9	-162.84	-4.3	92.8	93.7	92.0	1.70	55.039		
600.0	600.0	597.2	597.0	1.0	1.0	-160.98	-8.4	95.8	99.6	97.5	2.06	48.371		
700.0	699.9	695.5	695.1	1.2	1.2	-158.97	-13.8	99.9	108.3	105.9	2.42	44.769		
800.0	799.7	793.4	792.6	1.4	1.5	-157.00	-20.6	105.0	120.0	117.2	2.79	43.055		
900.0	899.4	890.8	889.5	1.6	1.7	-155.17	-28.6	111.0	134.6	131.4	3.16	42.577 SF		
1,000.0	998.9	989.3	987.4	1.8	1.9	-153.76	-37.3	117.5	151.3	147.8	3.54	42.738		
1,100.0	1,098.3	1,087.6	1,085.1	2.1	2.2	-152.88	-46.0	124.1	169.7	165.8	3.93	43.223		
1,200.0	1,197.4	1,185.6	1,182.5	2.3	2.4	-152.40	-54.7	130.6	189.6	185.3	4.32	43.922		
1,300.0	1,296.3	1,283.3	1,279.5	2.6	2.7	-152.21	-63.3	137.1	211.0	206.3	4.71	44.774		
1,400.0	1,394.9	1,380.6	1,376.3	2.9	2.9	-152.23	-72.0	143.5	234.0	228.9	5.12	45.736		
1,500.0	1,493.4	1,477.7	1,472.8	3.3	3.2	-152.44	-80.5	150.0	257.9	252.4	5.53	46.658		
1,600.0	1,591.8	1,574.8	1,569.3	3.6	3.4	-152.63	-89.1	156.4	281.9	275.9	5.94	47.427		
1,700.0	1,690.2	1,671.9	1,665.7	3.9	3.7	-152.80	-97.7	162.8	305.8	299.5	6.36	48.082		
1,800.0	1,788.6	1,769.0	1,762.2	4.3	3.9	-152.94	-106.3	169.3	329.8	323.0	6.78	48.646		
1,900.0	1,887.1	1,866.0	1,858.7	4.6	4.2	-153.06	-114.9	175.7	353.8	346.6	7.20	49.138		
2,000.0	1,985.5	1,963.1	1,955.2	5.0	4.4	-153.17	-123.5	182.2	377.7	370.1	7.62	49.569		
2,100.0	2,083.9	2,060.2	2,051.7	5.3	4.7	-153.26	-132.1	188.6	401.7	393.7	8.04	49.951		
2,200.0	2,182.3	2,157.3	2,148.2	5.7	4.9	-153.34	-140.7	195.1	425.7	417.2	8.46	50.290		
2,300.0	2,280.8	2,254.4	2,244.7	6.0	5.2	-153.42	-149.2	201.5	449.6	440.8	8.89	50.595		
2,400.0	2,379.2	2,351.5	2,341.2	6.4	5.4	-153.48	-157.8	207.9	473.6	464.3	9.31	50.869		
2,500.0	2,477.6	2,448.5	2,437.6	6.7	5.7	-153.54	-166.4	214.4	497.6	487.9	9.73	51.117		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3P-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	87.80	3.6	95.1	95.2					
100.0	100.0	101.0	101.0	0.2	0.2	87.80	3.6	95.1	95.2	94.9	0.31	311.666		
166.3	166.3	167.3	167.3	0.3	0.3	87.80	3.6	95.1	95.2	94.7	0.54	177.279 CC		
200.0	200.0	201.0	201.0	0.3	0.3	87.80	3.6	95.1	95.2	94.5	0.65	145.448 ES		
300.0	300.0	300.0	300.0	0.5	0.5	88.14	3.1	95.8	95.9	94.9	1.00	95.623		
400.0	400.0	398.4	398.4	0.7	0.7	89.09	1.5	97.8	97.9	96.5	1.35	72.342		
500.0	500.0	496.9	496.8	0.9	0.9	-164.87	-1.1	101.2	102.1	100.4	1.70	60.037		
600.0	600.0	595.1	594.8	1.0	1.1	-163.32	-4.7	105.9	109.5	107.5	2.05	53.301		
700.0	699.9	692.9	692.3	1.2	1.3	-161.75	-9.3	111.9	120.0	117.6	2.41	49.786		
800.0	799.7	790.1	789.1	1.4	1.5	-160.28	-14.9	119.2	133.6	130.9	2.77	48.254		
900.0	899.4	886.7	885.0	1.6	1.7	-158.97	-21.5	127.6	150.4	147.2	3.13	48.012 SF		
1,000.0	998.9	982.3	979.9	1.8	2.0	-157.83	-29.0	137.3	170.2	166.7	3.50	48.641		
1,100.0	1,098.3	1,077.4	1,073.9	2.1	2.3	-156.86	-37.3	148.2	193.0	189.1	3.87	49.881		
1,200.0	1,197.4	1,174.2	1,169.6	2.3	2.6	-156.15	-46.3	159.7	218.0	213.7	4.25	51.305		
1,300.0	1,296.3	1,270.6	1,264.9	2.6	2.8	-155.74	-55.1	171.2	244.5	239.9	4.63	52.786		
1,400.0	1,394.9	1,366.6	1,359.8	2.9	3.1	-155.53	-64.0	182.7	272.5	267.5	5.02	54.297		
1,500.0	1,493.4	1,462.2	1,454.4	3.3	3.4	-155.53	-72.8	194.1	301.6	296.2	5.42	55.669		
1,600.0	1,591.8	1,557.9	1,549.0	3.6	3.7	-155.56	-81.6	205.5	330.7	324.9	5.82	56.815		
1,700.0	1,690.2	1,653.6	1,643.6	3.9	4.0	-155.57	-90.4	216.9	359.8	353.6	6.23	57.795		
1,800.0	1,788.6	1,749.3	1,738.2	4.3	4.3	-155.59	-99.3	228.3	388.9	382.3	6.63	58.642		
1,900.0	1,887.1	1,844.9	1,832.7	4.6	4.6	-155.60	-108.1	239.7	418.0	410.9	7.04	59.380		
2,000.0	1,985.5	1,940.6	1,927.3	5.0	4.9	-155.62	-116.9	251.1	447.1	439.6	7.45	60.029		
2,100.0	2,083.9	2,036.3	2,021.9	5.3	5.2	-155.63	-125.7	262.5	476.2	468.3	7.86	60.603		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 4876-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
3,400.0	3,363.5	3,336.5	3,336.5	9.9	5.8	25.00	-25.5	-913.2	494.5	481.9	12.58	39.322		
3,500.0	3,461.9	3,434.9	3,434.9	10.3	6.0	25.90	-25.5	-913.2	478.5	465.5	13.02	36.743		
3,600.0	3,560.3	3,533.3	3,533.3	10.6	6.2	26.85	-25.5	-913.2	462.6	449.2	13.48	34.317		
3,700.0	3,658.7	3,631.7	3,631.7	11.0	6.3	27.87	-25.5	-913.2	446.9	432.9	13.95	32.033		
3,800.0	3,757.2	3,730.2	3,730.2	11.3	6.5	28.96	-25.5	-913.2	431.3	416.9	14.43	29.881		
3,900.0	3,855.6	3,828.6	3,828.6	11.7	6.7	30.14	-25.5	-913.2	415.8	400.9	14.93	27.851		
4,000.0	3,954.0	3,927.0	3,927.0	12.0	6.9	31.40	-25.5	-913.2	400.6	385.2	15.45	25.937		
4,100.0	4,052.4	4,025.4	4,025.4	12.4	7.0	32.76	-25.5	-913.2	385.6	369.6	15.98	24.131		
4,200.0	4,150.9	4,123.9	4,123.9	12.7	7.2	34.23	-25.5	-913.2	370.7	354.2	16.53	22.429		
4,300.0	4,249.3	4,222.3	4,222.3	13.1	7.4	35.82	-25.5	-913.2	356.2	339.1	17.10	20.825		
4,400.0	4,347.7	4,320.7	4,320.7	13.5	7.5	37.55	-25.5	-913.2	341.9	324.2	17.70	19.315		
4,500.0	4,446.1	4,419.1	4,419.1	13.8	7.7	39.42	-25.5	-913.2	328.0	309.7	18.33	17.897		
4,600.0	4,544.6	4,517.6	4,517.6	14.2	7.9	41.45	-25.5	-913.2	314.5	295.5	18.98	16.568		
4,700.0	4,643.0	4,616.0	4,616.0	14.5	8.1	43.66	-25.5	-913.2	301.4	281.7	19.66	15.325		
4,800.0	4,741.4	4,714.4	4,714.4	14.9	8.2	46.06	-25.5	-913.2	288.7	268.4	20.38	14.168		
4,900.0	4,839.8	4,812.8	4,812.8	15.2	8.4	48.67	-25.5	-913.2	276.7	255.5	21.12	13.096		
4,994.8	4,933.1	4,876.0	4,876.0	15.6	8.5	50.47	-25.5	-913.2	267.5	245.8	21.71	12.321 CC, ES		
5,000.0	4,938.3	4,876.0	4,876.0	15.6	8.5	50.47	-25.5	-913.2	267.5	245.8	21.73	12.314 SF		
5,100.0	5,036.7	4,876.0	4,876.0	16.0	8.5	50.47	-25.5	-913.2	287.5	265.4	22.02	13.053		
5,200.0	5,135.1	4,876.0	4,876.0	16.3	8.5	50.47	-25.5	-913.2	337.2	314.8	22.32	15.106		
5,300.0	5,233.5	4,876.0	4,876.0	16.7	8.5	50.47	-25.5	-913.2	405.9	383.3	22.62	17.946		
5,400.0	5,332.0	4,876.0	4,876.0	17.0	8.5	50.47	-25.5	-913.2	485.6	462.7	22.91	21.192		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 4996-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	63.47	185.8	372.1	415.9					
100.0	100.0	100.0	100.0	0.2	0.2	63.47	185.8	372.1	415.9	415.6	0.33	1,275.935		
200.0	200.0	200.0	200.0	0.3	0.3	63.47	185.8	372.1	415.9	415.2	0.67	616.511		
300.0	300.0	300.0	300.0	0.5	0.5	63.47	185.8	372.1	415.9	414.9	1.02	406.450		
400.0	400.0	400.0	400.0	0.7	0.7	63.47	185.8	372.1	415.9	414.5	1.37	303.157 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.9	168.14	185.8	372.1	416.8	415.0	1.72	242.243		
600.0	600.0	600.0	600.0	1.0	1.0	168.21	185.8	372.1	419.3	417.2	2.07	202.707		
700.0	699.9	699.9	699.9	1.2	1.2	168.32	185.8	372.1	423.6	421.2	2.42	175.295		
800.0	799.7	799.7	799.7	1.4	1.4	168.47	185.8	372.1	429.6	426.8	2.76	155.423		
900.0	899.4	899.4	899.4	1.6	1.6	168.66	185.8	372.1	437.3	434.1	3.11	140.559		
1,000.0	998.9	998.9	998.9	1.8	1.7	168.89	185.8	372.1	446.7	443.2	3.46	129.195		
1,100.0	1,098.3	1,098.3	1,098.3	2.1	1.9	169.14	185.8	372.1	457.8	454.0	3.80	120.373		
1,200.0	1,197.4	1,197.4	1,197.4	2.3	2.1	169.41	185.8	372.1	470.6	466.5	4.15	113.457		
1,300.0	1,296.3	1,296.3	1,296.3	2.6	2.3	169.71	185.8	372.1	485.1	480.7	4.49	108.010 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 8140-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
2,600.0	2,576.0	2,566.0	2,566.0	7.1	4.5	-56.45	-539.9	-452.1	491.9	481.0	10.86	45.291			
2,700.0	2,674.5	2,664.5	2,664.5	7.4	4.7	-58.18	-539.9	-452.1	482.3	470.8	11.41	42.269			
2,800.0	2,772.9	2,762.9	2,762.9	7.8	4.8	-59.98	-539.9	-452.1	473.1	461.1	11.97	39.533			
2,900.0	2,871.3	2,861.3	2,861.3	8.1	5.0	-61.84	-539.9	-452.1	464.4	451.8	12.53	37.056			
3,000.0	2,969.7	2,959.7	2,959.7	8.5	5.2	-63.78	-539.9	-452.1	456.2	443.1	13.10	34.813			
3,100.0	3,068.2	3,058.2	3,058.2	8.8	5.3	-65.78	-539.9	-452.1	448.6	434.9	13.68	32.782			
3,200.0	3,166.6	3,156.6	3,156.6	9.2	5.5	-67.84	-539.9	-452.1	441.5	427.2	14.27	30.947			
3,300.0	3,265.0	3,255.0	3,255.0	9.5	5.7	-69.97	-539.9	-452.1	435.0	420.2	14.85	29.289			
3,400.0	3,363.5	3,353.5	3,353.5	9.9	5.9	-72.15	-539.9	-452.1	429.2	413.8	15.44	27.795			
3,500.0	3,461.9	3,451.9	3,451.9	10.3	6.0	-74.39	-539.9	-452.1	424.1	408.0	16.03	26.453			
3,600.0	3,560.3	3,550.3	3,550.3	10.6	6.2	-76.68	-539.9	-452.1	419.6	403.0	16.62	25.249			
3,700.0	3,658.7	3,648.7	3,648.7	11.0	6.4	-79.02	-539.9	-452.1	415.8	398.6	17.20	24.175			
3,800.0	3,757.2	3,747.2	3,747.2	11.3	6.5	-81.39	-539.9	-452.1	412.8	395.0	17.78	23.220			
3,900.0	3,855.6	3,845.6	3,845.6	11.7	6.7	-83.79	-539.9	-452.1	410.4	392.1	18.34	22.376			
4,000.0	3,954.0	3,944.0	3,944.0	12.0	6.9	-86.22	-539.9	-452.1	408.9	390.0	18.90	21.634			
4,100.0	4,052.4	4,042.4	4,042.4	12.4	7.1	-88.65	-539.9	-452.1	408.1	388.6	19.44	20.988			
4,155.1	4,106.7	4,096.7	4,096.7	12.6	7.2	-90.00	-539.9	-452.1	408.0	388.2	19.74	20.670 CC			
4,200.0	4,150.9	4,140.9	4,140.9	12.7	7.2	-91.10	-539.9	-452.1	408.0	388.1	19.97	20.430 ES			
4,300.0	4,249.3	4,239.3	4,239.3	13.1	7.4	-93.54	-539.9	-452.1	408.8	388.3	20.48	19.954			
4,400.0	4,347.7	4,337.7	4,337.7	13.5	7.6	-95.96	-539.9	-452.1	410.2	389.3	20.98	19.554			
4,500.0	4,446.1	4,436.1	4,436.1	13.8	7.7	-98.37	-539.9	-452.1	412.5	391.0	21.46	19.223			
4,600.0	4,544.6	4,534.6	4,534.6	14.2	7.9	-100.74	-539.9	-452.1	415.5	393.5	21.92	18.957			
4,700.0	4,643.0	4,633.0	4,633.0	14.5	8.1	-103.08	-539.9	-452.1	419.2	396.8	22.36	18.750			
4,800.0	4,741.4	4,731.4	4,731.4	14.9	8.3	-105.38	-539.9	-452.1	423.6	400.8	22.78	18.597			
4,900.0	4,839.8	4,829.8	4,829.8	15.2	8.4	-107.62	-539.9	-452.1	428.7	405.5	23.18	18.494			
5,000.0	4,938.3	4,928.3	4,928.3	15.6	8.6	-109.81	-539.9	-452.1	434.4	410.9	23.56	18.437			
5,100.0	5,036.7	5,026.7	5,026.7	16.0	8.8	-111.95	-539.9	-452.1	440.8	416.9	23.93	18.420 SF			
5,200.0	5,135.1	5,125.1	5,125.1	16.3	8.9	-114.02	-539.9	-452.1	447.8	423.5	24.28	18.441			
5,300.0	5,233.5	5,223.5	5,223.5	16.7	9.1	-116.02	-539.9	-452.1	455.4	430.8	24.62	18.496			
5,400.0	5,332.0	5,322.0	5,322.0	17.0	9.3	-117.96	-539.9	-452.1	463.5	438.6	24.94	18.582			
5,500.0	5,430.4	5,420.4	5,420.4	17.4	9.5	-119.83	-539.9	-452.1	472.1	446.9	25.26	18.694			
5,600.0	5,528.8	5,518.8	5,518.8	17.7	9.6	-121.64	-539.9	-452.1	481.3	455.7	25.56	18.832			
5,700.0	5,627.2	5,617.2	5,617.2	18.1	9.8	-123.38	-539.9	-452.1	490.9	465.0	25.85	18.991			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-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) - PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8350-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,200.0	7,378.0	7,409.0	7,409.0	113.1	12.9	90.00	-6,666.6	-1,063.7	439.4	317.1	122.35	3.592		
13,300.0	7,378.0	7,409.0	7,409.0	114.8	12.9	90.00	-6,666.6	-1,063.7	341.4	217.3	124.10	2.751		
13,400.0	7,378.0	7,409.0	7,409.0	116.5	12.9	90.00	-6,666.6	-1,063.7	244.9	119.1	125.85	1.946		
13,499.5	7,378.0	7,409.0	7,409.0	118.2	12.9	90.00	-6,666.6	-1,063.7	153.5	26.0	127.59	1.203	Level 2, CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 119-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
2,700.0	2,674.5	2,764.2	2,714.0	7.4	9.3	-20.36	-360.0	-713.8	495.1	481.0	14.15	34.982		
2,800.0	2,772.9	2,856.4	2,802.9	7.8	9.7	-18.05	-337.1	-723.1	473.1	458.3	14.75	32.071		
2,900.0	2,871.3	2,951.2	2,894.5	8.1	10.2	-15.57	-314.6	-732.8	452.5	437.2	15.35	29.489		
3,000.0	2,969.7	3,043.9	2,983.7	8.5	10.7	-12.80	-291.7	-742.8	433.1	417.1	15.93	27.178		
3,100.0	3,068.2	3,135.0	3,071.2	8.8	11.1	-9.75	-269.1	-754.1	416.1	399.6	16.50	25.211		
3,200.0	3,166.6	3,225.1	3,157.9	9.2	11.6	-6.59	-247.6	-766.2	401.8	384.7	17.04	23.577		
3,300.0	3,265.0	3,324.0	3,253.4	9.5	12.1	-3.11	-225.4	-779.2	389.2	371.6	17.58	22.136		
3,400.0	3,363.5	3,422.3	3,348.5	9.9	12.5	0.50	-203.4	-790.9	376.9	358.8	18.10	20.824		
3,500.0	3,461.9	3,514.9	3,438.2	10.3	12.9	3.96	-183.6	-802.3	366.9	348.3	18.58	19.747		
3,600.0	3,560.3	3,615.5	3,535.9	10.6	13.4	7.79	-162.9	-814.6	358.3	339.3	19.07	18.795		
3,700.0	3,658.7	3,711.6	3,629.4	11.0	13.8	11.52	-143.6	-825.8	350.9	331.4	19.53	17.970		
3,800.0	3,757.2	3,812.6	3,727.6	11.3	14.3	15.60	-123.2	-837.2	344.8	324.8	20.00	17.242		
3,900.0	3,855.6	3,910.5	3,822.9	11.7	14.7	19.71	-103.3	-847.2	339.5	319.1	20.44	16.606		
4,000.0	3,954.0	4,004.0	3,914.1	12.0	15.1	23.62	-84.8	-857.2	336.3	315.5	20.87	16.117		
4,050.9	4,004.1	4,050.8	3,959.6	12.2	15.3	25.63	-75.3	-862.6	335.9	314.8	21.08	15.935 CC, ES		
4,100.0	4,052.4	4,096.0	4,003.4	12.4	15.5	27.62	-65.8	-868.1	336.3	315.0	21.28	15.803		
4,200.0	4,150.9	4,190.3	4,094.6	12.7	16.0	31.85	-45.1	-880.0	339.4	317.7	21.68	15.654		
4,300.0	4,249.3	4,297.3	4,198.5	13.1	16.4	36.44	-22.7	-892.5	343.2	321.2	22.05	15.566		
4,400.0	4,347.7	4,394.0	4,293.0	13.5	16.8	40.21	-4.7	-903.0	347.1	324.7	22.38	15.509 SF		
4,500.0	4,446.1	4,487.1	4,383.8	13.8	17.2	43.75	13.0	-913.7	353.4	330.7	22.70	15.568		
4,600.0	4,544.6	4,575.3	4,469.4	14.2	17.6	47.03	30.8	-924.9	362.8	339.8	23.01	15.766		
4,700.0	4,643.0	4,666.7	4,557.4	14.5	18.1	50.55	52.0	-937.1	376.0	352.6	23.33	16.118		
4,800.0	4,741.4	4,775.0	4,661.9	14.9	18.6	54.64	77.5	-949.7	389.6	366.0	23.63	16.486		
4,900.0	4,839.8	4,870.0	4,754.0	15.2	19.1	58.07	99.0	-959.1	403.0	379.0	23.96	16.822		
5,000.0	4,938.3	4,960.0	4,840.8	15.6	19.5	61.21	120.9	-968.2	419.2	394.9	24.30	17.255		
5,100.0	5,036.7	5,045.9	4,923.2	16.0	20.0	64.03	143.3	-978.0	438.8	414.2	24.66	17.797		
5,200.0	5,135.1	5,152.2	5,025.2	16.3	20.5	67.16	170.2	-990.1	459.2	434.1	25.06	18.324		
5,300.0	5,233.5	5,247.6	5,117.3	16.7	21.0	69.70	193.1	-1,000.5	479.1	453.6	25.49	18.793		
5,400.0	5,332.0	5,347.2	5,213.5	17.0	21.5	71.95	216.0	-1,012.6	499.7	473.8	25.97	19.245		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 88-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		
7,700.0	7,368.5	7,429.7	7,379.2	27.7	18.1	-41.62	-1,222.3	-1,092.9	490.7	462.5	28.24	17.377		
7,800.0	7,378.0	7,438.8	7,388.4	28.7	18.1	-87.32	-1,222.3	-1,092.9	392.5	356.5	36.05	10.890		
7,900.0	7,378.0	7,438.9	7,388.4	29.8	18.1	-90.38	-1,222.3	-1,092.9	294.3	256.7	37.57	7.833		
8,000.0	7,378.0	7,438.9	7,388.4	30.9	18.1	-90.38	-1,222.3	-1,092.9	197.8	158.7	39.07	5.062		
8,100.0	7,378.0	7,438.9	7,388.4	32.1	18.1	-90.38	-1,222.3	-1,092.9	107.8	67.2	40.60	2.656		
8,187.4	7,378.0	7,438.9	7,388.4	33.2	18.1	-90.38	-1,222.3	-1,092.9	63.1	21.2	41.96	1.504 CC, ES, SF		
8,200.0	7,378.0	7,438.9	7,388.4	33.3	18.1	-90.38	-1,222.3	-1,092.9	64.4	22.2	42.16	1.527		
8,300.0	7,378.0	7,438.9	7,388.4	34.6	18.1	-90.38	-1,222.3	-1,092.9	128.7	85.3	43.36	2.967		
8,400.0	7,378.0	7,438.9	7,388.4	35.9	18.1	-90.35	-1,222.3	-1,092.9	220.8	176.2	44.55	4.956		
8,500.0	7,378.0	7,438.8	7,388.4	37.2	18.1	-90.31	-1,222.3	-1,092.9	317.3	271.6	45.75	6.936		
8,600.0	7,378.0	7,438.8	7,388.4	38.5	18.1	-90.27	-1,222.3	-1,092.9	415.3	368.0	47.28	8.784		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-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) - SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8340-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		
12,000.0	7,378.0	7,434.0	7,434.0	92.9	13.0	-90.00	-5,404.8	-943.0	410.5	306.8	103.73	3.957		
12,100.0	7,378.0	7,434.0	7,434.0	94.6	13.0	-90.00	-5,404.8	-943.0	322.3	217.0	105.23	3.063		
12,200.0	7,378.0	7,434.0	7,434.0	96.3	13.0	-90.00	-5,404.8	-943.0	242.2	135.6	106.60	2.272		
12,300.0	7,378.0	7,434.0	7,434.0	97.9	13.0	-90.00	-5,404.8	-943.0	181.3	73.3	107.95	1.679		
12,382.7	7,378.0	7,434.0	7,434.0	99.3	13.0	-90.00	-5,404.8	-943.0	161.9	52.9	109.04	1.485 Level 3, CC, ES, SF		
12,400.0	7,378.0	7,434.0	7,434.0	99.6	13.0	-90.00	-5,404.8	-943.0	162.8	53.5	109.27	1.490 Level 3		
12,500.0	7,378.0	7,434.0	7,434.0	101.3	13.0	-90.00	-5,404.8	-943.0	199.0	88.4	110.57	1.799		
12,600.0	7,378.0	7,434.0	7,434.0	103.0	13.0	-90.00	-5,404.8	-943.0	268.5	156.6	111.92	2.399		
12,700.0	7,378.0	7,434.0	7,434.0	104.7	13.0	-90.00	-5,404.8	-943.0	352.7	239.1	113.66	3.103		
12,800.0	7,378.0	7,434.0	7,434.0	106.3	13.0	-90.00	-5,404.8	-943.0	443.6	328.1	115.41	3.843		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3C-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3C-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 @ 4970.0ft (Original Well Elev)

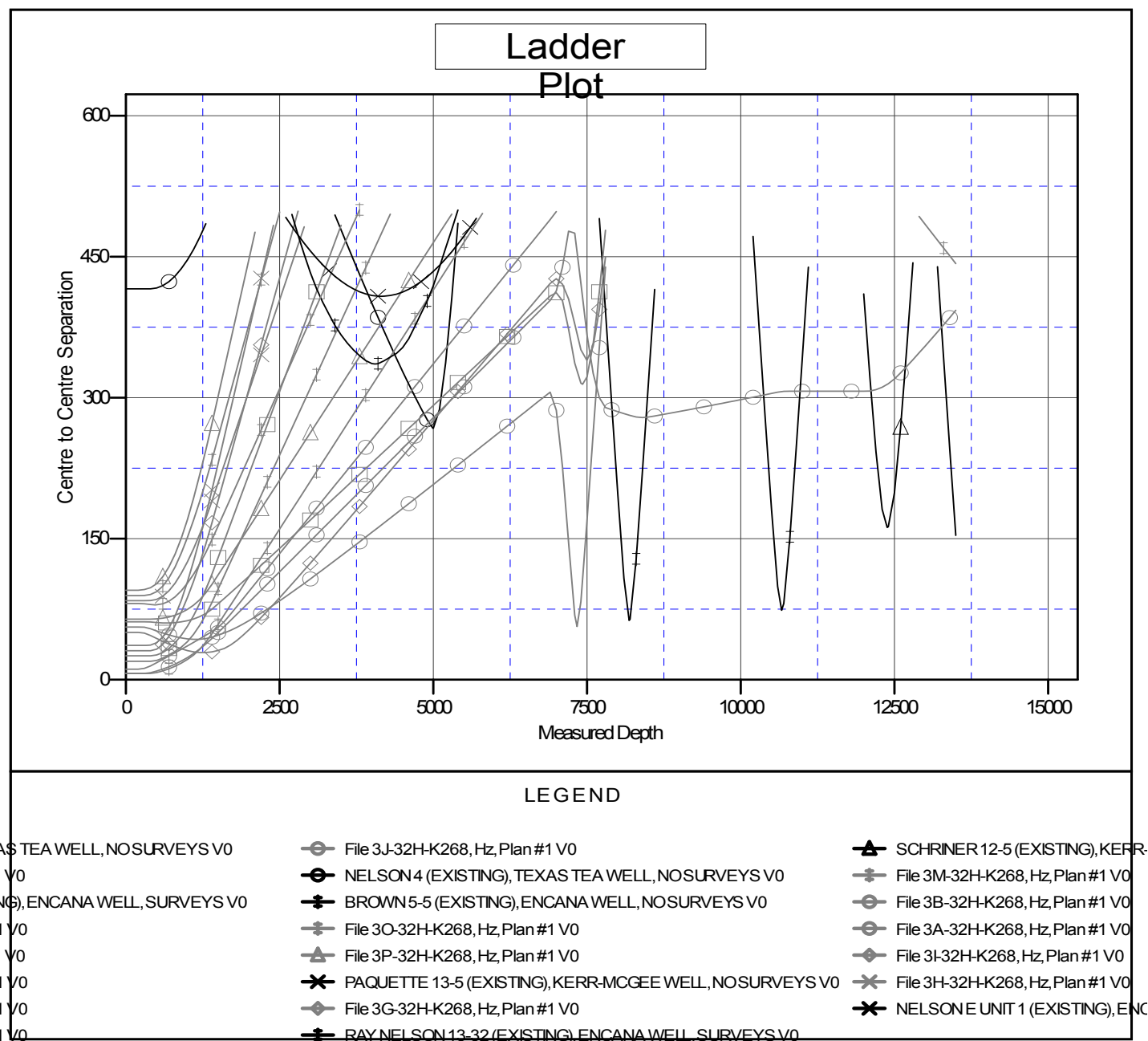
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°



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