

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3B-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 3B-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 3B-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,920.71 ft	Latitude:	40.092580
	+E/-W	0.0 ft	Easting:	3,131,163.36 ft	Longitude:	-105.031200
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	6/26/2013	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,407.2	11.07	275.33	1,400.3	9.9	-106.2	1.00	1.00	0.00	275.33	
7,147.3	11.07	275.33	7,033.6	112.3	-1,203.8	0.00	0.00	0.00	0.00	
8,057.5	90.00	180.00	7,606.0	-460.5	-1,315.3	10.00	8.67	-10.47	-95.23	
14,270.5	90.00	180.00	7,606.0	-6,673.5	-1,315.3	0.00	0.00	0.00	0.00	File 3B-32H-K268 PB

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Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3B-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	KOP @ 300'
400.0	1.00	275.33	400.0	0.1	-0.9	-0.1	1.00	1.00	
500.0	2.00	275.33	500.0	0.3	-3.5	-0.3	1.00	1.00	
600.0	3.00	275.33	599.9	0.7	-7.8	-0.7	1.00	1.00	
700.0	4.00	275.33	699.7	1.3	-13.9	-1.3	1.00	1.00	
800.0	5.00	275.33	799.4	2.0	-21.7	-2.0	1.00	1.00	
900.0	6.00	275.33	898.9	2.9	-31.3	-2.9	1.00	1.00	
1,000.0	7.00	275.33	998.3	4.0	-42.5	-4.0	1.00	1.00	
1,100.0	8.00	275.33	1,097.4	5.2	-55.5	-5.2	1.00	1.00	
1,200.0	9.00	275.33	1,196.3	6.6	-70.2	-6.6	1.00	1.00	
1,300.0	10.00	275.33	1,294.9	8.1	-86.7	-8.1	1.00	1.00	
1,400.0	11.00	275.33	1,393.3	9.8	-104.8	-9.8	1.00	1.00	
1,407.2	11.07	275.33	1,400.3	9.9	-106.2	-9.9	1.00	1.00	EOB; Inc=11.07°
1,500.0	11.07	275.33	1,491.4	11.6	-123.9	-11.6	0.00	0.00	
1,600.0	11.07	275.33	1,589.5	13.3	-143.1	-13.3	0.00	0.00	
1,700.0	11.07	275.33	1,687.7	15.1	-162.2	-15.1	0.00	0.00	
1,800.0	11.07	275.33	1,785.8	16.9	-181.3	-16.9	0.00	0.00	
1,900.0	11.07	275.33	1,883.9	18.7	-200.4	-18.7	0.00	0.00	
2,000.0	11.07	275.33	1,982.1	20.5	-219.5	-20.5	0.00	0.00	
2,100.0	11.07	275.33	2,080.2	22.3	-238.7	-22.3	0.00	0.00	
2,200.0	11.07	275.33	2,178.4	24.1	-257.8	-24.1	0.00	0.00	
2,300.0	11.07	275.33	2,276.5	25.8	-276.9	-25.8	0.00	0.00	
2,400.0	11.07	275.33	2,374.6	27.6	-296.0	-27.6	0.00	0.00	
2,500.0	11.07	275.33	2,472.8	29.4	-315.1	-29.4	0.00	0.00	
2,600.0	11.07	275.33	2,570.9	31.2	-334.3	-31.2	0.00	0.00	
2,700.0	11.07	275.33	2,669.1	33.0	-353.4	-33.0	0.00	0.00	
2,800.0	11.07	275.33	2,767.2	34.8	-372.5	-34.8	0.00	0.00	
2,900.0	11.07	275.33	2,865.3	36.5	-391.6	-36.5	0.00	0.00	
3,000.0	11.07	275.33	2,963.5	38.3	-410.7	-38.3	0.00	0.00	
3,100.0	11.07	275.33	3,061.6	40.1	-429.9	-40.1	0.00	0.00	
3,200.0	11.07	275.33	3,159.8	41.9	-449.0	-41.9	0.00	0.00	
3,300.0	11.07	275.33	3,257.9	43.7	-468.1	-43.7	0.00	0.00	
3,400.0	11.07	275.33	3,356.0	45.5	-487.2	-45.5	0.00	0.00	
3,500.0	11.07	275.33	3,454.2	47.3	-506.4	-47.3	0.00	0.00	
3,600.0	11.07	275.33	3,552.3	49.0	-525.5	-49.0	0.00	0.00	
3,700.0	11.07	275.33	3,650.4	50.8	-544.6	-50.8	0.00	0.00	
3,800.0	11.07	275.33	3,748.6	52.6	-563.7	-52.6	0.00	0.00	
3,900.0	11.07	275.33	3,846.7	54.4	-582.8	-54.4	0.00	0.00	
4,000.0	11.07	275.33	3,944.9	56.2	-602.0	-56.2	0.00	0.00	
4,100.0	11.07	275.33	4,043.0	58.0	-621.1	-58.0	0.00	0.00	
4,200.0	11.07	275.33	4,141.1	59.7	-640.2	-59.7	0.00	0.00	
4,300.0	11.07	275.33	4,239.3	61.5	-659.3	-61.5	0.00	0.00	
4,389.4	11.07	275.33	4,327.0	63.1	-676.4	-63.1	0.00	0.00	Sussex
4,400.0	11.07	275.33	4,337.4	63.3	-678.4	-63.3	0.00	0.00	
4,500.0	11.07	275.33	4,435.6	65.1	-697.6	-65.1	0.00	0.00	
4,600.0	11.07	275.33	4,533.7	66.9	-716.7	-66.9	0.00	0.00	
4,675.7	11.07	275.33	4,608.0	68.2	-731.2	-68.2	0.00	0.00	Sussex Marker
4,700.0	11.07	275.33	4,631.8	68.7	-735.8	-68.7	0.00	0.00	

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Well:	File 3B-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	11.07	275.33	4,730.0	70.5	-754.9	-70.5	0.00	0.00	
4,900.0	11.07	275.33	4,828.1	72.2	-774.1	-72.2	0.00	0.00	
4,973.3	11.07	275.33	4,900.0	73.5	-788.1	-73.5	0.00	0.00	Shannon
5,000.0	11.07	275.33	4,926.2	74.0	-793.2	-74.0	0.00	0.00	
5,100.0	11.07	275.33	5,024.4	75.8	-812.3	-75.8	0.00	0.00	
5,200.0	11.07	275.33	5,122.5	77.6	-831.4	-77.6	0.00	0.00	
5,300.0	11.07	275.33	5,220.7	79.4	-850.5	-79.4	0.00	0.00	
5,400.0	11.07	275.33	5,318.8	81.2	-869.7	-81.2	0.00	0.00	
5,500.0	11.07	275.33	5,416.9	82.9	-888.8	-82.9	0.00	0.00	
5,600.0	11.07	275.33	5,515.1	84.7	-907.9	-84.7	0.00	0.00	
5,700.0	11.07	275.33	5,613.2	86.5	-927.0	-86.5	0.00	0.00	
5,800.0	11.07	275.33	5,711.4	88.3	-946.1	-88.3	0.00	0.00	
5,900.0	11.07	275.33	5,809.5	90.1	-965.3	-90.1	0.00	0.00	
6,000.0	11.07	275.33	5,907.6	91.9	-984.4	-91.9	0.00	0.00	
6,100.0	11.07	275.33	6,005.8	93.6	-1,003.5	-93.6	0.00	0.00	
6,200.0	11.07	275.33	6,103.9	95.4	-1,022.6	-95.4	0.00	0.00	
6,300.0	11.07	275.33	6,202.1	97.2	-1,041.7	-97.2	0.00	0.00	
6,400.0	11.07	275.33	6,300.2	99.0	-1,060.9	-99.0	0.00	0.00	
6,500.0	11.07	275.33	6,398.3	100.8	-1,080.0	-100.8	0.00	0.00	
6,600.0	11.07	275.33	6,496.5	102.6	-1,099.1	-102.6	0.00	0.00	
6,700.0	11.07	275.33	6,594.6	104.4	-1,118.2	-104.4	0.00	0.00	
6,800.0	11.07	275.33	6,692.7	106.1	-1,137.4	-106.1	0.00	0.00	
6,900.0	11.07	275.33	6,790.9	107.9	-1,156.5	-107.9	0.00	0.00	
6,909.3	11.07	275.33	6,800.0	108.1	-1,158.3	-108.1	0.00	0.00	Teepee Buttes (*if present)
7,000.0	11.07	275.33	6,889.0	109.7	-1,175.6	-109.7	0.00	0.00	
7,100.0	11.07	275.33	6,987.2	111.5	-1,194.7	-111.5	0.00	0.00	
7,147.3	11.07	275.33	7,033.6	112.3	-1,203.8	-112.3	0.00	0.00	Start build/turn @ 7147' MD
7,200.0	11.81	248.78	7,085.3	110.9	-1,213.8	-110.9	10.00	1.39	
7,300.0	17.94	216.99	7,182.0	94.8	-1,232.7	-94.8	10.00	6.14	
7,326.4	20.08	212.21	7,207.0	87.7	-1,237.6	-87.7	10.00	8.09	Sharon Springs
7,400.0	26.50	203.01	7,274.6	61.9	-1,250.7	-61.9	10.00	8.72	
7,439.1	30.07	199.66	7,309.0	44.6	-1,257.4	-44.6	10.00	9.15	Niobrara
7,500.0	35.77	195.69	7,360.1	13.1	-1,267.4	-13.1	10.00	9.36	
7,509.8	36.70	195.15	7,368.0	7.5	-1,268.9	-7.5	10.00	9.46	B Chalk
7,553.4	40.85	193.02	7,402.0	-19.0	-1,275.5	19.0	10.00	9.52	B Marl
7,600.0	45.32	191.11	7,436.0	-50.1	-1,282.2	50.1	10.00	9.60	
7,644.3	49.61	189.54	7,466.0	-82.2	-1,288.0	82.2	10.00	9.66	C Chalk
7,698.2	54.83	187.89	7,499.0	-124.3	-1,294.4	124.3	10.00	9.70	C Marl
7,700.0	55.01	187.84	7,500.0	-125.8	-1,294.6	125.8	10.00	9.72	
7,800.0	64.76	185.27	7,550.1	-211.6	-1,304.4	211.6	10.00	9.75	
7,872.7	71.87	183.66	7,577.0	-278.9	-1,309.6	278.9	10.00	9.79	Ft. Hayes
7,900.0	74.55	183.09	7,584.9	-305.0	-1,311.2	305.0	10.00	9.80	
7,949.3	79.38	182.09	7,596.0	-353.0	-1,313.3	353.0	10.00	9.81	Codell
8,000.0	84.35	181.10	7,603.2	-403.1	-1,314.7	403.1	10.00	9.81	
8,057.5	90.00	180.00	7,606.0	-460.5	-1,315.3	460.5	10.00	9.81	LP @ 7606' TVD; 90°
8,100.0	90.00	180.00	7,606.0	-503.0	-1,315.3	503.0	0.01	0.01	
8,200.0	90.00	180.00	7,606.0	-603.0	-1,315.3	603.0	0.00	0.00	
8,300.0	90.00	180.00	7,606.0	-703.0	-1,315.3	703.0	0.00	0.00	
8,400.0	90.00	180.00	7,606.0	-803.0	-1,315.3	803.0	0.00	0.00	
8,500.0	90.00	180.00	7,606.0	-903.0	-1,315.3	903.0	0.00	0.00	
8,600.0	90.00	180.00	7,606.0	-1,003.0	-1,315.3	1,003.0	0.00	0.00	
8,700.0	90.00	180.00	7,606.0	-1,103.0	-1,315.3	1,103.0	0.00	0.00	

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Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	180.00	7,606.0	-1,203.0	-1,315.3	1,203.0	0.00	0.00	
8,900.0	90.00	180.00	7,606.0	-1,303.0	-1,315.3	1,303.0	0.00	0.00	
9,000.0	90.00	180.00	7,606.0	-1,403.0	-1,315.3	1,403.0	0.00	0.00	
9,100.0	90.00	180.00	7,606.0	-1,503.0	-1,315.3	1,503.0	0.00	0.00	
9,200.0	90.00	180.00	7,606.0	-1,603.0	-1,315.3	1,603.0	0.00	0.00	
9,300.0	90.00	180.00	7,606.0	-1,703.0	-1,315.3	1,703.0	0.00	0.00	
9,400.0	90.00	180.00	7,606.0	-1,803.0	-1,315.3	1,803.0	0.00	0.00	
9,500.0	90.00	180.00	7,606.0	-1,903.0	-1,315.3	1,903.0	0.00	0.00	
9,600.0	90.00	180.00	7,606.0	-2,003.0	-1,315.3	2,003.0	0.00	0.00	
9,700.0	90.00	180.00	7,606.0	-2,103.0	-1,315.3	2,103.0	0.00	0.00	
9,800.0	90.00	180.00	7,606.0	-2,203.0	-1,315.3	2,203.0	0.00	0.00	
9,900.0	90.00	180.00	7,606.0	-2,303.0	-1,315.3	2,303.0	0.00	0.00	
10,000.0	90.00	180.00	7,606.0	-2,403.0	-1,315.3	2,403.0	0.00	0.00	
10,100.0	90.00	180.00	7,606.0	-2,503.0	-1,315.3	2,503.0	0.00	0.00	
10,200.0	90.00	180.00	7,606.0	-2,603.0	-1,315.3	2,603.0	0.00	0.00	
10,300.0	90.00	180.00	7,606.0	-2,703.0	-1,315.3	2,703.0	0.00	0.00	
10,400.0	90.00	180.00	7,606.0	-2,803.0	-1,315.3	2,803.0	0.00	0.00	
10,500.0	90.00	180.00	7,606.0	-2,903.0	-1,315.3	2,903.0	0.00	0.00	
10,600.0	90.00	180.00	7,606.0	-3,003.0	-1,315.3	3,003.0	0.00	0.00	
10,700.0	90.00	180.00	7,606.0	-3,103.0	-1,315.3	3,103.0	0.00	0.00	
10,800.0	90.00	180.00	7,606.0	-3,203.0	-1,315.3	3,203.0	0.00	0.00	
10,900.0	90.00	180.00	7,606.0	-3,303.0	-1,315.3	3,303.0	0.00	0.00	
11,000.0	90.00	180.00	7,606.0	-3,403.0	-1,315.3	3,403.0	0.00	0.00	
11,100.0	90.00	180.00	7,606.0	-3,503.0	-1,315.3	3,503.0	0.00	0.00	
11,200.0	90.00	180.00	7,606.0	-3,603.0	-1,315.3	3,603.0	0.00	0.00	
11,300.0	90.00	180.00	7,606.0	-3,703.0	-1,315.3	3,703.0	0.00	0.00	
11,400.0	90.00	180.00	7,606.0	-3,803.0	-1,315.3	3,803.0	0.00	0.00	
11,500.0	90.00	180.00	7,606.0	-3,903.0	-1,315.3	3,903.0	0.00	0.00	
11,600.0	90.00	180.00	7,606.0	-4,003.0	-1,315.3	4,003.0	0.00	0.00	
11,700.0	90.00	180.00	7,606.0	-4,103.0	-1,315.3	4,103.0	0.00	0.00	
11,800.0	90.00	180.00	7,606.0	-4,203.0	-1,315.3	4,203.0	0.00	0.00	
11,900.0	90.00	180.00	7,606.0	-4,303.0	-1,315.3	4,303.0	0.00	0.00	
12,000.0	90.00	180.00	7,606.0	-4,403.0	-1,315.3	4,403.0	0.00	0.00	
12,100.0	90.00	180.00	7,606.0	-4,503.0	-1,315.3	4,503.0	0.00	0.00	
12,200.0	90.00	180.00	7,606.0	-4,603.0	-1,315.3	4,603.0	0.00	0.00	
12,300.0	90.00	180.00	7,606.0	-4,703.0	-1,315.3	4,703.0	0.00	0.00	
12,400.0	90.00	180.00	7,606.0	-4,803.0	-1,315.3	4,803.0	0.00	0.00	
12,500.0	90.00	180.00	7,606.0	-4,903.0	-1,315.3	4,903.0	0.00	0.00	
12,600.0	90.00	180.00	7,606.0	-5,003.0	-1,315.3	5,003.0	0.00	0.00	
12,700.0	90.00	180.00	7,606.0	-5,103.0	-1,315.3	5,103.0	0.00	0.00	
12,800.0	90.00	180.00	7,606.0	-5,203.0	-1,315.3	5,203.0	0.00	0.00	
12,900.0	90.00	180.00	7,606.0	-5,303.0	-1,315.3	5,303.0	0.00	0.00	
13,000.0	90.00	180.00	7,606.0	-5,403.0	-1,315.3	5,403.0	0.00	0.00	
13,100.0	90.00	180.00	7,606.0	-5,503.0	-1,315.3	5,503.0	0.00	0.00	
13,200.0	90.00	180.00	7,606.0	-5,603.0	-1,315.3	5,603.0	0.00	0.00	
13,300.0	90.00	180.00	7,606.0	-5,703.0	-1,315.3	5,703.0	0.00	0.00	
13,400.0	90.00	180.00	7,606.0	-5,803.0	-1,315.3	5,803.0	0.00	0.00	
13,500.0	90.00	180.00	7,606.0	-5,903.0	-1,315.3	5,903.0	0.00	0.00	
13,600.0	90.00	180.00	7,606.0	-6,003.0	-1,315.3	6,003.0	0.00	0.00	
13,700.0	90.00	180.00	7,606.0	-6,103.0	-1,315.3	6,103.0	0.00	0.00	
13,800.0	90.00	180.00	7,606.0	-6,203.0	-1,315.3	6,203.0	0.00	0.00	
13,900.0	90.00	180.00	7,606.0	-6,303.0	-1,315.3	6,303.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3B-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 3B-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
14,000.0	90.00	180.00	7,606.0	-6,403.0	-1,315.3	6,403.0	0.00	0.00	
14,100.0	90.00	180.00	7,606.0	-6,503.0	-1,315.3	6,503.0	0.00	0.00	
14,200.0	90.00	180.00	7,606.0	-6,603.0	-1,315.3	6,603.0	0.00	0.00	
14,270.5	90.00	180.00	7,606.0	-6,673.5	-1,315.3	6,673.5	0.00	0.00	TD at 14270.5

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
File 3B-32H-K268 PBHL	0.00	0.00	7,606.0	-6,673.5	-1,315.3	1,270,240.33	3,129,883.37	40.074260	-105.035900
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
270.0	270.0	Fox Hills - BASE			
4,389.4	4,327.0	Sussex			
4,675.7	4,608.0	Sussex Marker			
4,973.3	4,900.0	Shannon			
6,909.3	6,800.0	Teepee Buttes (*if present)			
7,326.4	7,207.0	Sharon Springs			
7,439.1	7,309.0	Niobrara			
7,509.8	7,368.0	B Chalk			
7,553.4	7,402.0	B Marl			
7,644.3	7,466.0	C Chalk			
7,698.2	7,499.0	C Marl			
7,872.7	7,577.0	Ft. Hayes			
7,949.3	7,596.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300'
1,407.2	1,400.3	9.9	-106.2	EOB; Inc=11.07°
7,147.3	7,033.6	112.3	-1,203.8	Start build/turn @ 7147' MD
8,057.5	7,606.0	-460.5	-1,315.3	LP @ 7606' TVD; 90°
14,270.5	7,606.0	-6,673.5	-1,315.3	TD at 14270.5

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3B-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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	14,270.5	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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	11,300.2	7,655.0	131.1	49.8	1.612	CC, ES, SF
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	6.7	6.0	10.229	CC, ES
File 3A-32H-K268 - Hz - Plan #1	14,270.5	13,810.5	417.6	215.7	2.068	SF
File 3C-32H-K268 - Hz - Plan #1	300.0	300.0	6.7	5.7	6.667	CC, ES
File 3C-32H-K268 - Hz - Plan #1	14,270.5	13,985.1	417.6	216.1	2.073	SF
File 3D-32H-K268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.171	CC, ES
File 3D-32H-K268 - Hz - Plan #1	500.0	500.0	14.7	13.0	8.633	SF
File 3E-32H-K268 - Hz - Plan #1	300.0	301.0	25.4	24.4	25.353	CC, ES
File 3E-32H-K268 - Hz - Plan #1	900.0	902.3	49.3	46.2	15.946	SF
File 3F-32H-K268 - Hz - Plan #1	300.0	301.0	30.8	29.8	30.666	CC, ES
File 3F-32H-K268 - Hz - Plan #1	700.0	700.7	44.7	42.3	18.648	SF
File 3G-32H-K268 - Hz - Plan #1	300.0	301.0	36.6	35.5	36.423	CC, ES
File 3G-32H-K268 - Hz - Plan #1	600.0	599.4	47.6	45.6	23.279	SF
File 3H-32H-K268 - Hz - Plan #1	300.0	301.0	42.0	41.0	41.817	CC, ES
File 3H-32H-K268 - Hz - Plan #1	600.0	598.6	55.2	53.1	26.969	SF
File 3I-32H-K268 - Hz - Plan #1	732.2	737.4	51.0	48.4	19.909	CC
File 3I-32H-K268 - Hz - Plan #1	800.0	805.5	51.1	48.3	18.107	ES
File 3I-32H-K268 - Hz - Plan #1	7,878.4	7,842.7	213.6	184.5	7.335	SF
File 3J-32H-K268 - Hz - Plan #1	598.4	602.6	60.0	57.9	29.136	CC
File 3J-32H-K268 - Hz - Plan #1	700.0	705.0	60.2	57.8	24.821	ES
File 3J-32H-K268 - Hz - Plan #1	7,500.0	7,858.5	85.8	58.9	3.189	SF
File 3K-32H-K268 - Hz - Plan #1	300.0	301.0	67.2	66.2	67.006	CC, ES
File 3K-32H-K268 - Hz - Plan #1	7,900.0	7,755.9	489.2	459.4	16.420	SF
File 3L-32H-K268 - Hz - Plan #1	300.0	301.0	69.9	68.9	69.695	CC, ES
File 3L-32H-K268 - Hz - Plan #1	1,200.0	1,203.9	114.3	109.8	25.807	SF
File 3M-32H-K268 - Hz - Plan #1	338.5	340.1	86.5	85.3	75.711	CC, ES
File 3M-32H-K268 - Hz - Plan #1	1,100.0	1,098.9	138.5	134.4	33.688	SF
File 3N-32H-K268 - Hz - Plan #1	266.3	267.3	89.5	88.6	101.043	CC
File 3N-32H-K268 - Hz - Plan #1	300.0	301.0	89.5	88.5	89.210	ES
File 3N-32H-K268 - Hz - Plan #1	1,000.0	994.2	146.5	143.0	41.165	SF
File 3O-32H-K268 - Hz - Plan #1	200.0	201.0	95.2	94.5	145.444	CC
File 3O-32H-K268 - Hz - Plan #1	300.0	300.0	95.3	94.3	95.161	ES
File 3O-32H-K268 - Hz - Plan #1	900.0	888.2	152.3	149.2	48.619	SF
File 3P-32H-K268 - Hz - Plan #1	166.3	167.3	100.7	100.2	187.569	CC
File 3P-32H-K268 - Hz - Plan #1	200.0	201.0	100.7	100.1	153.891	ES
File 3P-32H-K268 - Hz - Plan #1	800.0	788.2	148.3	145.6	53.866	SF
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU						Out of range
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range

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 3B-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 3B-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File)						
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	4,997.2	4,876.0	155.8	133.7	7.071	CC, ES
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	5,000.0	4,876.0	155.8	133.8	7.070	SF
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	300.0	300.0	419.3	418.3	409.789	CC, ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	1,300.0	1,294.9	495.9	491.3	107.886	SF
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						Out of range
NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N	14,267.3	7,637.0	257.2	124.4	1.937	CC
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N	14,270.5	7,637.0	257.2	124.4	1.936	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	4,978.7	4,999.6	189.2	164.7	7.715	CC, ES
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU	7,100.0	7,146.6	282.4	238.0	6.350	SF
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU	8,822.5	7,666.6	227.0	184.9	5.390	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	13,005.4	7,662.0	377.8	267.0	3.409	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 3B-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 3B-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			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	
10,900.0	7,606.0	7,655.0	7,655.0	65.3	13.4	-90.00	-3,703.2	-1,184.2	421.2	346.7	74.44	5.657	
11,000.0	7,606.0	7,655.0	7,655.0	66.9	13.4	-90.00	-3,703.2	-1,184.2	327.6	251.4	76.16	4.302	
11,100.0	7,606.0	7,655.0	7,655.0	68.6	13.4	-90.00	-3,703.2	-1,184.2	239.3	161.5	77.87	3.073	
11,200.0	7,606.0	7,655.0	7,655.0	70.2	13.4	-90.00	-3,703.2	-1,184.2	165.0	85.4	79.59	2.073	
11,300.0	7,606.0	7,655.0	7,655.0	71.8	13.4	-90.00	-3,703.2	-1,184.2	131.1	49.8	81.31	1.612	
11,300.2	7,606.0	7,655.0	7,655.0	71.8	13.4	-90.00	-3,703.2	-1,184.2	131.1	49.8	81.32	1.612	CC, ES, SF
11,400.0	7,606.0	7,655.0	7,655.0	73.4	13.4	-90.00	-3,703.2	-1,184.2	164.8	81.7	83.04	1.984	
11,500.0	7,606.0	7,655.0	7,655.0	75.1	13.4	-90.00	-3,703.2	-1,184.2	239.0	154.2	84.76	2.819	
11,600.0	7,606.0	7,655.0	7,655.0	76.7	13.4	-90.00	-3,703.2	-1,184.2	327.2	240.7	86.48	3.783	
11,700.0	7,606.0	7,655.0	7,655.0	78.4	13.4	-90.00	-3,703.2	-1,184.2	420.7	332.5	88.21	4.770	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-123.07	-3.6	-5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	-123.07	-3.6	-5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	-123.07	-3.6	-5.6	6.7	6.0	0.65	10.229 CC, ES		
300.0	300.0	299.9	299.9	0.5	0.5	-120.17	-3.8	-6.5	7.5	6.5	1.00	7.454		
400.0	400.0	399.7	399.7	0.7	0.7	-32.34	-4.1	-9.0	9.2	7.8	1.35	6.798		
500.0	500.0	499.5	499.4	0.9	0.9	-32.01	-4.6	-13.4	11.1	9.4	1.70	6.507		
600.0	599.9	599.3	599.0	1.0	1.1	-33.29	-5.4	-19.4	13.1	11.1	2.06	6.384		
700.0	699.7	699.1	698.4	1.2	1.3	-35.49	-6.4	-27.1	15.4	13.0	2.42	6.352		
800.0	799.4	798.8	797.7	1.4	1.5	-38.20	-7.7	-36.6	17.8	15.0	2.80	6.372		
900.0	898.9	898.4	896.7	1.7	1.8	-41.13	-9.1	-47.8	20.5	17.3	3.20	6.418		
1,000.0	998.3	998.1	995.5	1.9	2.0	-44.13	-10.8	-60.6	23.5	19.9	3.63	6.473		
1,100.0	1,097.4	1,097.6	1,094.0	2.2	2.3	-47.07	-12.7	-75.2	26.8	22.7	4.10	6.524		
1,200.0	1,196.3	1,197.2	1,192.1	2.5	2.7	-49.90	-14.8	-91.4	30.4	25.7	4.62	6.565		
1,300.0	1,294.9	1,296.6	1,289.9	2.8	3.0	-52.57	-17.1	-109.4	34.3	29.1	5.20	6.591		
1,400.0	1,393.3	1,396.1	1,387.4	3.2	3.4	-55.06	-19.6	-128.9	38.5	32.7	5.83	6.602		
1,500.0	1,491.4	1,495.4	1,484.4	3.5	3.8	-56.58	-22.4	-150.2	43.5	37.0	6.49	6.707		
1,600.0	1,589.5	1,594.6	1,580.9	3.9	4.2	-56.38	-25.4	-173.1	49.7	42.6	7.11	6.996		
1,700.0	1,687.7	1,694.0	1,677.1	4.2	4.7	-55.12	-28.5	-197.5	57.2	49.5	7.70	7.427		
1,800.0	1,785.8	1,793.6	1,773.6	4.6	5.1	-53.95	-31.7	-222.4	64.8	56.6	8.28	7.835		
1,900.0	1,883.9	1,893.3	1,870.1	5.0	5.6	-53.03	-35.0	-247.2	72.5	63.7	8.86	8.189		
2,000.0	1,982.1	1,993.0	1,966.6	5.3	6.1	-52.29	-38.2	-272.1	80.3	70.8	9.44	8.499		
2,100.0	2,080.2	2,092.7	2,063.1	5.7	6.5	-51.68	-41.4	-296.9	88.0	77.9	10.03	8.773		
2,200.0	2,178.4	2,192.4	2,159.6	6.1	7.0	-51.16	-44.6	-321.7	95.7	85.1	10.62	9.016		
2,300.0	2,276.5	2,292.1	2,256.1	6.5	7.5	-50.73	-47.8	-346.6	103.4	92.2	11.20	9.232		
2,400.0	2,374.6	2,391.8	2,352.6	6.8	8.0	-50.35	-51.1	-371.4	111.2	99.4	11.79	9.427		
2,500.0	2,472.8	2,491.5	2,449.1	7.2	8.4	-50.03	-54.3	-396.3	118.9	106.6	12.39	9.603		
2,600.0	2,570.9	2,591.2	2,545.6	7.6	8.9	-49.74	-57.5	-421.1	126.7	113.7	12.98	9.763		
2,700.0	2,669.1	2,690.9	2,642.1	8.0	9.4	-49.48	-60.7	-445.9	134.4	120.9	13.57	9.908		
2,800.0	2,767.2	2,790.6	2,738.6	8.4	9.9	-49.26	-63.9	-470.8	142.2	128.0	14.16	10.041		
2,900.0	2,865.3	2,890.3	2,835.1	8.7	10.3	-49.06	-67.2	-495.6	150.0	135.2	14.76	10.163		
3,000.0	2,963.5	2,990.0	2,931.6	9.1	10.8	-48.87	-70.4	-520.5	157.7	142.4	15.35	10.275		
3,100.0	3,061.6	3,089.7	3,028.1	9.5	11.3	-48.71	-73.6	-545.3	165.5	149.5	15.94	10.379		
3,200.0	3,159.8	3,189.4	3,124.6	9.9	11.8	-48.56	-76.8	-570.2	173.2	156.7	16.54	10.475		
3,300.0	3,257.9	3,289.1	3,221.1	10.3	12.3	-48.42	-80.0	-595.0	181.0	163.9	17.13	10.564		
3,400.0	3,356.0	3,388.8	3,317.6	10.6	12.7	-48.29	-83.3	-619.8	188.8	171.0	17.73	10.648		
3,500.0	3,454.2	3,488.5	3,414.1	11.0	13.2	-48.18	-86.5	-644.7	196.5	178.2	18.32	10.725		
3,600.0	3,552.3	3,588.2	3,510.6	11.4	13.7	-48.07	-89.7	-669.5	204.3	185.4	18.92	10.798		
3,700.0	3,650.4	3,687.9	3,607.1	11.8	14.2	-47.97	-92.9	-694.4	212.1	192.6	19.52	10.866		
3,800.0	3,748.6	3,787.6	3,703.6	12.2	14.7	-47.88	-96.1	-719.2	219.8	199.7	20.11	10.930		
3,900.0	3,846.7	3,887.3	3,800.1	12.5	15.1	-47.79	-99.4	-744.0	227.6	206.9	20.71	10.991		
4,000.0	3,944.9	3,987.0	3,896.6	12.9	15.6	-47.71	-102.6	-768.9	235.4	214.1	21.31	11.047		
4,100.0	4,043.0	4,086.7	3,993.1	13.3	16.1	-47.63	-105.8	-793.7	243.1	221.2	21.90	11.101		
4,200.0	4,141.1	4,186.4	4,089.6	13.7	16.6	-47.56	-109.0	-818.6	250.9	228.4	22.50	11.152		
4,300.0	4,239.3	4,286.1	4,186.1	14.1	17.1	-47.50	-112.3	-843.4	258.7	235.6	23.10	11.200		
4,400.0	4,337.4	4,385.8	4,282.6	14.5	17.6	-47.43	-115.5	-868.3	266.5	242.8	23.69	11.246		
4,500.0	4,435.6	4,485.5	4,379.1	14.8	18.0	-47.37	-118.7	-893.1	274.2	249.9	24.29	11.289		
4,600.0	4,533.7	4,585.2	4,475.6	15.2	18.5	-47.32	-121.9	-917.9	282.0	257.1	24.89	11.330		
4,700.0	4,631.8	4,684.9	4,572.1	15.6	19.0	-47.27	-125.1	-942.8	289.8	264.3	25.49	11.370		
4,800.0	4,730.0	4,784.6	4,668.6	16.0	19.5	-47.22	-128.4	-967.6	297.5	271.5	26.08	11.407		
4,900.0	4,828.1	4,884.3	4,765.1	16.4	20.0	-47.17	-131.6	-992.5	305.3	278.6	26.68	11.443		
5,000.0	4,926.2	4,984.0	4,861.6	16.7	20.4	-47.12	-134.8	-1,017.3	313.1	285.8	27.28	11.477		
5,100.0	5,024.4	5,083.7	4,958.1	17.1	20.9	-47.08	-138.0	-1,042.1	320.9	293.0	27.88	11.510		

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 3B-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 3B-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	5,122.5	5,183.4	5,054.6	17.5	21.4	-47.04	-141.2	-1,067.0	328.6	300.1	28.47	11.541		
5,300.0	5,220.7	5,283.1	5,151.1	17.9	21.9	-47.00	-144.5	-1,091.8	336.4	307.3	29.07	11.571		
5,400.0	5,318.8	5,382.7	5,247.6	18.3	22.4	-46.96	-147.7	-1,116.7	344.2	314.5	29.67	11.600		
5,500.0	5,416.9	5,482.4	5,344.1	18.7	22.9	-46.93	-150.9	-1,141.5	351.9	321.7	30.27	11.627		
5,600.0	5,515.1	5,582.1	5,440.6	19.0	23.3	-46.89	-154.1	-1,166.4	359.7	328.8	30.87	11.654		
5,700.0	5,613.2	5,681.8	5,537.1	19.4	23.8	-46.86	-157.3	-1,191.2	367.5	336.0	31.47	11.679		
5,800.0	5,711.4	5,781.5	5,633.6	19.8	24.3	-46.83	-160.6	-1,216.0	375.3	343.2	32.06	11.704		
5,900.0	5,809.5	5,881.2	5,730.1	20.2	24.8	-46.80	-163.8	-1,240.9	383.0	350.4	32.66	11.727		
6,000.0	5,907.6	5,980.9	5,826.6	20.6	25.3	-46.77	-167.0	-1,265.7	390.8	357.5	33.26	11.750		
6,100.0	6,005.8	6,080.6	5,923.1	21.0	25.7	-46.74	-170.2	-1,290.6	398.6	364.7	33.86	11.772		
6,200.0	6,103.9	6,180.3	6,019.6	21.3	26.2	-46.72	-173.4	-1,315.4	406.4	371.9	34.46	11.793		
6,300.0	6,202.1	6,280.0	6,116.1	21.7	26.7	-46.69	-176.7	-1,340.2	414.1	379.1	35.06	11.814		
6,400.0	6,300.2	6,379.7	6,212.6	22.1	27.2	-46.66	-179.9	-1,365.1	421.9	386.2	35.65	11.833		
6,500.0	6,398.3	6,479.4	6,309.1	22.5	27.7	-46.64	-183.1	-1,389.9	429.7	393.4	36.25	11.852		
6,600.0	6,496.5	6,579.1	6,405.6	22.9	28.2	-46.62	-186.3	-1,414.8	437.4	400.6	36.85	11.871		
6,700.0	6,594.6	6,678.8	6,502.1	23.2	28.6	-46.60	-189.5	-1,439.6	445.2	407.8	37.45	11.889		
6,800.0	6,692.7	6,778.5	6,598.6	23.6	29.1	-46.57	-192.8	-1,464.5	453.0	414.9	38.05	11.906		
6,900.0	6,790.9	6,878.2	6,695.1	24.0	29.6	-46.55	-196.0	-1,489.3	460.8	422.1	38.65	11.923		
7,000.0	6,889.0	6,977.9	6,791.6	24.4	30.1	-46.53	-199.2	-1,514.1	468.5	429.3	39.25	11.939		
7,100.0	6,987.2	7,060.4	6,871.3	24.8	30.5	-46.60	-202.7	-1,534.7	477.2	437.4	39.81	11.986		
7,200.0	7,085.3	7,123.7	6,932.0	25.2	30.8	-21.56	-211.7	-1,550.3	490.6	450.0	40.63	12.077		
7,700.0	7,500.0	7,438.0	7,199.8	26.8	32.6	35.97	-352.8	-1,619.2	497.0	469.2	27.83	17.859		
7,800.0	7,550.1	7,500.0	7,241.6	27.3	32.9	39.64	-397.2	-1,630.0	485.5	460.5	24.92	19.478		
7,900.0	7,584.9	7,566.8	7,281.1	27.7	33.4	43.66	-450.1	-1,640.2	470.7	446.2	24.47	19.232		
8,000.0	7,603.2	7,632.9	7,314.1	28.3	33.8	48.03	-506.6	-1,648.7	453.6	426.7	26.94	16.838		
8,100.0	7,606.0	7,700.0	7,341.0	28.8	34.2	52.09	-567.7	-1,655.6	436.1	406.0	30.18	14.450		
8,200.0	7,606.0	7,774.9	7,362.5	29.5	34.8	54.85	-639.1	-1,661.1	424.5	392.1	32.38	13.111		
8,300.0	7,606.0	7,850.0	7,374.9	30.3	35.3	56.49	-713.1	-1,664.3	418.7	384.2	34.51	12.134		
8,394.4	7,606.0	7,934.5	7,378.0	31.1	35.9	56.90	-797.4	-1,665.1	417.6	381.0	36.53	11.430		
8,400.0	7,606.0	7,940.0	7,378.0	31.1	36.0	56.90	-803.0	-1,665.1	417.6	380.9	36.65	11.392		
8,500.0	7,606.0	8,040.0	7,378.0	32.0	36.7	56.90	-903.0	-1,665.1	417.6	378.6	38.91	10.732		
8,600.0	7,606.0	8,140.0	7,378.0	33.0	37.6	56.90	-1,003.0	-1,665.1	417.6	376.3	41.25	10.122		
8,700.0	7,606.0	8,240.0	7,378.0	34.1	38.5	56.90	-1,103.0	-1,665.1	417.6	373.9	43.66	9.563		
8,800.0	7,606.0	8,340.0	7,378.0	35.2	39.5	56.90	-1,203.0	-1,665.1	417.6	371.4	46.14	9.049		
8,900.0	7,606.0	8,440.0	7,378.0	36.3	40.5	56.90	-1,303.0	-1,665.1	417.6	368.9	48.67	8.579		
9,000.0	7,606.0	8,540.0	7,378.0	37.5	41.6	56.90	-1,403.0	-1,665.1	417.6	366.3	51.24	8.148		
9,100.0	7,606.0	8,640.0	7,378.0	38.8	42.7	56.90	-1,503.0	-1,665.1	417.6	363.7	53.86	7.753		
9,200.0	7,606.0	8,740.0	7,378.0	40.1	43.8	56.90	-1,603.0	-1,665.1	417.6	361.1	56.50	7.390		
9,300.0	7,606.0	8,840.0	7,378.0	41.4	45.0	56.90	-1,703.0	-1,665.1	417.6	358.4	59.18	7.056		
9,400.0	7,606.0	8,940.0	7,378.0	42.7	46.3	56.90	-1,803.0	-1,665.1	417.6	355.7	61.87	6.748		
9,500.0	7,606.0	9,040.0	7,378.0	44.1	47.5	56.90	-1,903.0	-1,665.1	417.6	353.0	64.59	6.464		
9,600.0	7,606.0	9,140.0	7,378.0	45.5	48.8	56.90	-2,003.0	-1,665.1	417.6	350.2	67.33	6.201		
9,700.0	7,606.0	9,240.0	7,378.0	46.9	50.1	56.90	-2,103.0	-1,665.1	417.6	347.5	70.09	5.957		
9,800.0	7,606.0	9,340.0	7,378.0	48.4	51.5	56.90	-2,203.0	-1,665.1	417.6	344.7	72.86	5.731		
9,900.0	7,606.0	9,440.0	7,378.0	49.9	52.9	56.90	-2,303.0	-1,665.1	417.6	341.9	75.64	5.520		
10,000.0	7,606.0	9,540.0	7,378.0	51.3	54.3	56.90	-2,403.0	-1,665.1	417.6	339.1	78.44	5.323		
10,100.0	7,606.0	9,640.0	7,378.0	52.8	55.7	56.90	-2,503.0	-1,665.1	417.6	336.3	81.25	5.139		
10,200.0	7,606.0	9,740.0	7,378.0	54.4	57.1	56.90	-2,603.0	-1,665.1	417.6	333.5	84.06	4.967		
10,300.0	7,606.0	9,840.0	7,378.0	55.9	58.6	56.90	-2,703.0	-1,665.1	417.6	330.7	86.89	4.806		
10,400.0	7,606.0	9,940.0	7,378.0	57.4	60.0	56.90	-2,803.0	-1,665.1	417.6	327.8	89.72	4.654		
10,500.0	7,606.0	10,040.0	7,378.0	59.0	61.5	56.90	-2,903.0	-1,665.1	417.6	325.0	92.56	4.511		
10,600.0	7,606.0	10,140.0	7,378.0	60.6	63.0	56.90	-3,003.0	-1,665.1	417.6	322.1	95.41	4.377		

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 3B-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 3B-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3A-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,700.0	7,606.0	10,240.0	7,378.0	62.2	64.5	56.90	-3,103.0	-1,665.1	417.6	319.3	98.26	4.250		
10,800.0	7,606.0	10,340.0	7,378.0	63.7	66.0	56.90	-3,203.0	-1,665.1	417.6	316.4	101.12	4.129		
10,900.0	7,606.0	10,440.0	7,378.0	65.3	67.6	56.90	-3,303.0	-1,665.1	417.6	313.6	103.98	4.016		
11,000.0	7,606.0	10,540.0	7,378.0	66.9	69.1	56.90	-3,403.0	-1,665.1	417.6	310.7	106.85	3.908		
11,100.0	7,606.0	10,640.0	7,378.0	68.6	70.7	56.90	-3,503.0	-1,665.1	417.6	307.8	109.72	3.806		
11,200.0	7,606.0	10,740.0	7,378.0	70.2	72.3	56.90	-3,603.0	-1,665.1	417.6	305.0	112.59	3.708		
11,300.0	7,606.0	10,840.0	7,378.0	71.8	73.8	56.90	-3,703.0	-1,665.1	417.6	302.1	115.47	3.616		
11,400.0	7,606.0	10,940.0	7,378.0	73.4	75.4	56.90	-3,803.0	-1,665.1	417.6	299.2	118.36	3.528		
11,500.0	7,606.0	11,040.0	7,378.0	75.1	77.0	56.90	-3,903.0	-1,665.1	417.6	296.3	121.24	3.444		
11,600.0	7,606.0	11,140.0	7,378.0	76.7	78.6	56.90	-4,003.0	-1,665.1	417.6	293.4	124.13	3.364		
11,700.0	7,606.0	11,240.0	7,378.0	78.4	80.2	56.90	-4,103.0	-1,665.1	417.6	290.5	127.02	3.287		
11,800.0	7,606.0	11,340.0	7,378.0	80.0	81.8	56.90	-4,203.0	-1,665.1	417.6	287.6	129.91	3.214		
11,900.0	7,606.0	11,440.0	7,378.0	81.7	83.4	56.90	-4,303.0	-1,665.1	417.6	284.7	132.81	3.144		
12,000.0	7,606.0	11,540.0	7,378.0	83.3	85.0	56.90	-4,403.0	-1,665.1	417.6	281.8	135.71	3.077		
12,100.0	7,606.0	11,640.0	7,378.0	85.0	86.7	56.90	-4,503.0	-1,665.1	417.6	278.9	138.61	3.013		
12,200.0	7,606.0	11,740.0	7,378.0	86.7	88.3	56.90	-4,603.0	-1,665.1	417.6	276.0	141.51	2.951		
12,300.0	7,606.0	11,840.0	7,378.0	88.3	89.9	56.90	-4,703.0	-1,665.1	417.6	273.1	144.41	2.891		
12,400.0	7,606.0	11,940.0	7,378.0	90.0	91.6	56.90	-4,803.0	-1,665.1	417.6	270.2	147.32	2.834		
12,500.0	7,606.0	12,040.0	7,378.0	91.7	93.2	56.90	-4,903.0	-1,665.1	417.6	267.3	150.22	2.780		
12,600.0	7,606.0	12,140.0	7,378.0	93.4	94.9	56.90	-5,003.0	-1,665.1	417.6	264.4	153.13	2.727		
12,700.0	7,606.0	12,240.0	7,378.0	95.0	96.5	56.90	-5,103.0	-1,665.1	417.6	261.5	156.04	2.676		
12,800.0	7,606.0	12,340.0	7,378.0	96.7	98.2	56.90	-5,203.0	-1,665.1	417.6	258.6	158.95	2.627		
12,900.0	7,606.0	12,440.0	7,378.0	98.4	99.8	56.90	-5,303.0	-1,665.1	417.6	255.7	161.87	2.580		
13,000.0	7,606.0	12,540.0	7,378.0	100.1	101.5	56.90	-5,403.0	-1,665.1	417.6	252.8	164.78	2.534		
13,100.0	7,606.0	12,640.0	7,378.0	101.8	103.2	56.90	-5,503.0	-1,665.1	417.6	249.9	167.70	2.490		
13,200.0	7,606.0	12,740.0	7,378.0	103.5	104.8	56.90	-5,603.0	-1,665.1	417.6	246.9	170.61	2.447		
13,300.0	7,606.0	12,840.0	7,378.0	105.2	106.5	56.90	-5,703.0	-1,665.1	417.6	244.0	173.53	2.406		
13,400.0	7,606.0	12,940.0	7,378.0	106.9	108.2	56.90	-5,803.0	-1,665.1	417.6	241.1	176.45	2.366		
13,500.0	7,606.0	13,040.0	7,378.0	108.6	109.9	56.90	-5,903.0	-1,665.1	417.6	238.2	179.37	2.328		
13,600.0	7,606.0	13,140.0	7,378.0	110.3	111.5	56.90	-6,003.0	-1,665.1	417.6	235.3	182.29	2.291		
13,700.0	7,606.0	13,240.0	7,378.0	112.0	113.2	56.90	-6,103.0	-1,665.1	417.6	232.3	185.21	2.255		
13,800.0	7,606.0	13,340.0	7,378.0	113.7	114.9	56.90	-6,203.0	-1,665.1	417.6	229.4	188.13	2.220		
13,900.0	7,606.0	13,440.0	7,378.0	115.4	116.6	56.90	-6,303.0	-1,665.1	417.6	226.5	191.05	2.186		
14,000.0	7,606.0	13,540.0	7,378.0	117.1	118.3	56.90	-6,403.0	-1,665.1	417.6	223.6	193.97	2.153		
14,100.0	7,606.0	13,640.0	7,378.0	118.8	120.0	56.90	-6,503.0	-1,665.1	417.6	220.7	196.90	2.121		
14,200.0	7,606.0	13,740.0	7,378.0	120.5	121.7	56.90	-6,603.0	-1,665.1	417.6	217.7	199.82	2.090		
14,241.3	7,606.0	13,781.3	7,378.0	121.2	122.4	56.90	-6,644.3	-1,665.1	417.6	216.5	201.03	2.077		
14,270.5	7,606.0	13,810.5	7,378.0	121.7	122.9	56.90	-6,673.5	-1,665.1	417.6	215.7	201.88	2.068 SF		

Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 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	123.10	-3.6	5.6	6.7						
100.0	100.0	100.0	100.0	0.2	0.2	123.10	-3.6	5.6	6.7	6.4	0.30	21.993			
200.0	200.0	200.0	200.0	0.3	0.3	123.10	-3.6	5.6	6.7	6.0	0.65	10.232			
300.0	300.0	300.0	300.0	0.5	0.5	123.10	-3.6	5.6	6.7	5.7	1.00	6.667 CC, ES			
400.0	400.0	400.0	400.0	0.7	0.7	-155.36	-3.6	5.6	7.5	6.1	1.35	5.524			
500.0	500.0	500.1	500.1	0.9	0.9	-160.12	-3.5	4.7	9.1	7.4	1.70	5.333			
600.0	599.9	600.3	600.2	1.0	1.0	-163.73	-3.2	2.1	10.7	8.6	2.05	5.220			
700.0	699.7	700.4	700.3	1.2	1.2	-166.63	-2.7	-2.2	12.3	9.9	2.40	5.146			
800.0	799.4	800.7	800.3	1.4	1.4	-169.08	-1.9	-8.3	14.0	11.3	2.75	5.096			
900.0	898.9	900.9	900.3	1.7	1.6	-171.21	-0.9	-16.1	15.7	12.6	3.10	5.061			
1,000.0	998.3	1,001.2	1,000.1	1.9	1.8	-173.11	0.3	-25.7	17.3	13.9	3.44	5.037			
1,100.0	1,097.4	1,101.5	1,099.7	2.2	2.1	-174.85	1.7	-37.0	19.0	15.2	3.79	5.020			
1,200.0	1,196.3	1,201.8	1,199.2	2.5	2.4	-176.46	3.4	-50.0	20.7	16.6	4.13	5.009			
1,300.0	1,294.9	1,302.0	1,298.3	2.8	2.6	-177.97	5.2	-64.5	22.6	18.2	4.48	5.056			
1,400.0	1,393.3	1,401.9	1,397.1	3.2	2.9	-179.30	7.1	-79.1	26.1	21.3	4.82	5.419			
1,500.0	1,491.4	1,501.8	1,495.9	3.5	3.2	179.69	8.9	-93.7	30.6	25.5	5.17	5.921			
1,600.0	1,589.5	1,601.7	1,594.7	3.9	3.5	178.94	10.8	-108.4	35.1	29.6	5.53	6.359			
1,700.0	1,687.7	1,701.6	1,693.5	4.2	3.8	178.37	12.6	-123.0	39.7	33.8	5.88	6.745			
1,800.0	1,785.8	1,801.5	1,792.3	4.6	4.1	177.91	14.5	-137.7	44.2	37.9	6.23	7.086			
1,900.0	1,883.9	1,901.4	1,891.1	5.0	4.4	177.53	16.3	-152.3	48.7	42.1	6.59	7.391			
2,000.0	1,982.1	2,001.3	1,989.9	5.3	4.7	177.22	18.2	-167.0	53.2	46.3	6.94	7.665			
2,100.0	2,080.2	2,101.2	2,088.7	5.7	5.0	176.96	20.0	-181.6	57.7	50.4	7.30	7.912			
2,200.0	2,178.4	2,201.1	2,187.5	6.1	5.3	176.73	21.9	-196.2	62.2	54.6	7.65	8.136			
2,300.0	2,276.5	2,301.0	2,286.3	6.5	5.6	176.54	23.7	-210.9	66.8	58.8	8.01	8.340			
2,400.0	2,374.6	2,400.9	2,385.1	6.8	5.9	176.37	25.6	-225.5	71.3	62.9	8.36	8.527			
2,500.0	2,472.8	2,500.8	2,483.9	7.2	6.2	176.22	27.4	-240.2	75.8	67.1	8.72	8.698			
2,600.0	2,570.9	2,600.7	2,582.7	7.6	6.6	176.09	29.3	-254.8	80.3	71.3	9.07	8.856			
2,700.0	2,669.1	2,700.6	2,681.5	8.0	6.9	175.97	31.1	-269.5	84.9	75.4	9.43	9.001			
2,800.0	2,767.2	2,800.5	2,780.3	8.4	7.2	175.86	33.0	-284.1	89.4	79.6	9.78	9.136			
2,900.0	2,865.3	2,900.4	2,879.1	8.7	7.5	175.77	34.8	-298.7	93.9	83.8	10.14	9.262			
3,000.0	2,963.5	3,000.3	2,977.9	9.1	7.8	175.68	36.7	-313.4	98.4	87.9	10.50	9.379			
3,100.0	3,061.6	3,100.2	3,076.7	9.5	8.1	175.60	38.5	-328.0	103.0	92.1	10.85	9.488			
3,200.0	3,159.8	3,200.1	3,175.5	9.9	8.4	175.53	40.4	-342.7	107.5	96.3	11.21	9.590			
3,300.0	3,257.9	3,299.9	3,274.3	10.3	8.7	175.46	42.2	-357.3	112.0	100.5	11.57	9.686			
3,400.0	3,356.0	3,399.8	3,373.1	10.6	9.0	175.40	44.1	-372.0	116.5	104.6	11.92	9.776			
3,500.0	3,454.2	3,499.7	3,471.9	11.0	9.3	175.34	45.9	-386.6	121.1	108.8	12.28	9.861			
3,600.0	3,552.3	3,599.6	3,570.7	11.4	9.7	175.29	47.8	-401.2	125.6	113.0	12.64	9.941			
3,700.0	3,650.4	3,699.5	3,669.5	11.8	10.0	175.24	49.6	-415.9	130.1	117.1	12.99	10.016			
3,800.0	3,748.6	3,799.4	3,768.3	12.2	10.3	175.20	51.5	-430.5	134.7	121.3	13.35	10.088			
3,900.0	3,846.7	3,899.3	3,867.1	12.5	10.6	175.15	53.3	-445.2	139.2	125.5	13.70	10.156			
4,000.0	3,944.9	3,999.2	3,965.9	12.9	10.9	175.11	55.2	-459.8	143.7	129.6	14.06	10.220			
4,100.0	4,043.0	4,099.1	4,064.7	13.3	11.2	175.07	57.0	-474.5	148.2	133.8	14.42	10.281			
4,200.0	4,141.1	4,199.0	4,163.5	13.7	11.5	175.04	58.9	-489.1	152.8	138.0	14.78	10.339			
4,300.0	4,239.3	4,298.9	4,262.3	14.1	11.8	175.00	60.8	-503.7	157.3	142.2	15.13	10.394			
4,400.0	4,337.4	4,398.8	4,361.2	14.5	12.1	174.97	62.6	-518.4	161.8	146.3	15.49	10.447			
4,500.0	4,435.6	4,498.7	4,460.0	14.8	12.5	174.94	64.5	-533.0	166.3	150.5	15.85	10.498			
4,600.0	4,533.7	4,598.6	4,558.8	15.2	12.8	174.91	66.3	-547.7	170.9	154.7	16.20	10.546			
4,700.0	4,631.8	4,698.5	4,657.6	15.6	13.1	174.89	68.2	-562.3	175.4	158.8	16.56	10.592			
4,800.0	4,730.0	4,798.4	4,756.4	16.0	13.4	174.86	70.0	-576.9	179.9	163.0	16.92	10.636			
4,900.0	4,828.1	4,898.3	4,855.2	16.4	13.7	174.84	71.9	-591.6	184.5	167.2	17.27	10.678			
5,000.0	4,926.2	4,998.2	4,954.0	16.7	14.0	174.82	73.7	-606.2	189.0	171.3	17.63	10.719			
5,100.0	5,024.4	5,098.1	5,052.8	17.1	14.3	174.79	75.6	-620.9	193.5	175.5	17.99	10.758			

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 3B-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 3B-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,122.5	5,198.0	5,151.6	17.5	14.6	174.77	77.4	-635.5	198.0	179.7	18.34	10.795		
5,300.0	5,220.7	5,297.9	5,250.4	17.9	15.0	174.75	79.3	-650.2	202.6	183.9	18.70	10.831		
5,400.0	5,318.8	5,397.8	5,349.2	18.3	15.3	174.73	81.1	-664.8	207.1	188.0	19.06	10.866		
5,500.0	5,416.9	5,497.7	5,448.0	18.7	15.6	174.71	83.0	-679.4	211.6	192.2	19.42	10.899		
5,600.0	5,515.1	5,597.6	5,546.8	19.0	15.9	174.70	84.8	-694.1	216.1	196.4	19.77	10.931		
5,700.0	5,613.2	5,697.5	5,645.6	19.4	16.2	174.68	86.7	-708.7	220.7	200.5	20.13	10.962		
5,800.0	5,711.4	5,797.4	5,744.4	19.8	16.5	174.66	88.5	-723.4	225.2	204.7	20.49	10.992		
5,900.0	5,809.5	5,897.3	5,843.2	20.2	16.8	174.65	90.4	-738.0	229.7	208.9	20.84	11.021		
6,000.0	5,907.6	5,997.2	5,942.0	20.6	17.1	174.63	92.2	-752.7	234.3	213.1	21.20	11.049		
6,100.0	6,005.8	6,097.1	6,040.8	21.0	17.5	174.62	94.1	-767.3	238.8	217.2	21.56	11.076		
6,200.0	6,103.9	6,197.0	6,139.6	21.3	17.8	174.60	95.9	-781.9	243.3	221.4	21.92	11.102		
6,300.0	6,202.1	6,296.9	6,238.4	21.7	18.1	174.59	97.8	-796.6	247.8	225.6	22.27	11.127		
6,400.0	6,300.2	6,396.8	6,337.2	22.1	18.4	174.58	99.6	-811.2	252.4	229.7	22.63	11.152		
6,500.0	6,398.3	6,496.7	6,436.0	22.5	18.7	174.57	101.5	-825.9	256.9	233.9	22.99	11.175		
6,600.0	6,496.5	6,596.6	6,534.8	22.9	19.0	174.55	103.3	-840.5	261.4	238.1	23.34	11.198		
6,700.0	6,594.6	6,696.5	6,633.6	23.2	19.3	174.54	105.2	-855.2	265.9	242.2	23.70	11.221		
6,800.0	6,692.7	6,796.4	6,732.4	23.6	19.7	174.53	107.0	-869.8	270.5	246.4	24.06	11.242		
6,900.0	6,790.9	6,896.3	6,831.2	24.0	20.0	174.69	108.1	-884.4	275.0	250.6	24.39	11.274		
7,000.0	6,889.0	6,994.2	6,927.2	24.4	20.2	177.46	96.3	-898.7	279.9	255.4	24.50	11.423		
7,100.0	6,987.2	7,085.1	7,013.4	24.8	20.5	-177.14	70.7	-911.4	287.4	262.5	24.87	11.557		
7,200.0	7,085.3	7,166.7	7,086.6	25.2	20.7	-143.87	36.3	-922.3	300.9	274.7	26.27	11.456		
7,300.0	7,182.0	7,244.0	7,150.6	25.5	20.9	-105.99	-5.7	-931.8	318.8	290.3	28.52	11.178		
7,400.0	7,274.6	7,318.4	7,206.6	25.8	21.1	-87.04	-54.0	-940.1	338.5	307.7	30.72	11.017		
7,500.0	7,360.1	7,390.6	7,254.5	26.2	21.4	-75.89	-107.5	-947.2	358.1	325.9	32.17	11.132		
7,600.0	7,436.0	7,461.3	7,294.6	26.5	21.6	-68.56	-165.3	-953.1	376.2	343.6	32.64	11.528		
7,700.0	7,500.0	7,530.7	7,326.8	26.8	21.9	-63.55	-226.5	-957.9	391.9	359.7	32.20	12.171		
7,800.0	7,550.1	7,600.0	7,351.4	27.3	22.3	-60.15	-291.2	-961.5	404.2	373.1	31.08	13.006		
7,900.0	7,584.9	7,667.0	7,367.8	27.7	22.7	-58.06	-356.2	-964.0	412.7	383.1	29.60	13.944		
8,000.0	7,603.2	7,734.6	7,376.5	28.3	23.2	-57.04	-423.1	-965.3	417.0	388.9	28.14	14.817		
8,100.0	7,606.0	7,814.5	7,378.0	28.8	23.7	-56.90	-503.0	-965.5	417.6	389.3	28.25	14.779		
8,200.0	7,606.0	7,914.5	7,378.0	29.5	24.6	-56.90	-603.0	-965.5	417.6	387.3	30.26	13.798		
8,300.0	7,606.0	8,014.5	7,378.0	30.3	25.5	-56.90	-703.0	-965.5	417.6	385.1	32.42	12.881		
8,400.0	7,606.0	8,114.5	7,378.0	31.1	26.5	-56.90	-803.0	-965.5	417.6	382.9	34.69	12.038		
8,500.0	7,606.0	8,214.5	7,378.0	32.0	27.5	-56.90	-903.0	-965.5	417.6	380.5	37.05	11.269		
8,600.0	7,606.0	8,314.5	7,378.0	33.0	28.7	-56.90	-1,003.0	-965.5	417.6	378.1	39.50	10.572		
8,700.0	7,606.0	8,414.5	7,378.0	34.1	29.9	-56.90	-1,103.0	-965.5	417.6	375.5	42.01	9.940		
8,800.0	7,606.0	8,514.5	7,378.0	35.2	31.1	-56.90	-1,203.0	-965.5	417.6	373.0	44.57	9.369		
8,900.0	7,606.0	8,614.5	7,378.0	36.3	32.4	-56.90	-1,303.0	-965.5	417.6	370.4	47.18	8.851		
9,000.0	7,606.0	8,714.5	7,378.0	37.5	33.8	-56.90	-1,403.0	-965.5	417.6	367.7	49.82	8.381		
9,100.0	7,606.0	8,814.5	7,378.0	38.8	35.1	-56.90	-1,503.0	-965.5	417.6	365.1	52.50	7.954		
9,200.0	7,606.0	8,914.5	7,378.0	40.1	36.6	-56.90	-1,603.0	-965.5	417.6	362.4	55.20	7.564		
9,300.0	7,606.0	9,014.5	7,378.0	41.4	38.0	-56.90	-1,703.0	-965.5	417.6	359.6	57.93	7.208		
9,400.0	7,606.0	9,114.5	7,378.0	42.7	39.5	-56.90	-1,803.0	-965.5	417.6	356.9	60.68	6.881		
9,500.0	7,606.0	9,214.5	7,378.0	44.1	40.9	-56.90	-1,903.0	-965.5	417.6	354.1	63.45	6.581		
9,600.0	7,606.0	9,314.5	7,378.0	45.5	42.5	-56.90	-2,003.0	-965.5	417.6	351.3	66.23	6.305		
9,700.0	7,606.0	9,414.5	7,378.0	46.9	44.0	-56.90	-2,103.0	-965.5	417.6	348.5	69.03	6.049		
9,800.0	7,606.0	9,514.5	7,378.0	48.4	45.5	-56.90	-2,203.0	-965.5	417.6	345.7	71.83	5.813		
9,900.0	7,606.0	9,614.5	7,378.0	49.9	47.1	-56.90	-2,303.0	-965.5	417.6	342.9	74.65	5.593		
10,000.0	7,606.0	9,714.5	7,378.0	51.3	48.6	-56.90	-2,403.0	-965.5	417.6	340.1	77.48	5.389		
10,100.0	7,606.0	9,814.5	7,378.0	52.8	50.2	-56.90	-2,503.0	-965.5	417.6	337.2	80.32	5.199		
10,200.0	7,606.0	9,914.5	7,378.0	54.4	51.8	-56.90	-2,603.0	-965.5	417.6	334.4	83.16	5.021		
10,300.0	7,606.0	10,014.5	7,378.0	55.9	53.4	-56.90	-2,703.0	-965.5	417.6	331.5	86.01	4.855		

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 3B-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 3B-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.0	7,606.0	10,114.5	7,378.0	57.4	55.0	-56.90	-2,803.0	-965.5	417.6	328.7	88.87	4.699	
10,500.0	7,606.0	10,214.5	7,378.0	59.0	56.7	-56.90	-2,903.0	-965.5	417.6	325.8	91.73	4.552	
10,600.0	7,606.0	10,314.5	7,378.0	60.6	58.3	-56.90	-3,003.0	-965.5	417.6	323.0	94.60	4.414	
10,700.0	7,606.0	10,414.5	7,378.0	62.2	59.9	-56.90	-3,103.0	-965.5	417.6	320.1	97.47	4.284	
10,800.0	7,606.0	10,514.5	7,378.0	63.7	61.6	-56.90	-3,203.0	-965.5	417.6	317.2	100.35	4.161	
10,900.0	7,606.0	10,614.5	7,378.0	65.3	63.2	-56.90	-3,303.0	-965.5	417.6	314.3	103.23	4.045	
11,000.0	7,606.0	10,714.5	7,378.0	66.9	64.9	-56.90	-3,403.0	-965.5	417.6	311.4	106.12	3.935	
11,100.0	7,606.0	10,814.5	7,378.0	68.6	66.5	-56.90	-3,503.0	-965.5	417.6	308.5	109.00	3.831	
11,200.0	7,606.0	10,914.5	7,378.0	70.2	68.2	-56.90	-3,603.0	-965.5	417.6	305.7	111.90	3.732	
11,300.0	7,606.0	11,014.5	7,378.0	71.8	69.9	-56.90	-3,703.0	-965.5	417.6	302.8	114.79	3.638	
11,400.0	7,606.0	11,114.5	7,378.0	73.4	71.5	-56.90	-3,803.0	-965.5	417.6	299.9	117.69	3.548	
11,500.0	7,606.0	11,214.5	7,378.0	75.1	73.2	-56.90	-3,903.0	-965.5	417.6	297.0	120.58	3.463	
11,600.0	7,606.0	11,314.5	7,378.0	76.7	74.9	-56.90	-4,003.0	-965.5	417.6	294.1	123.49	3.381	
11,700.0	7,606.0	11,414.5	7,378.0	78.4	76.6	-56.90	-4,103.0	-965.5	417.6	291.2	126.39	3.304	
11,800.0	7,606.0	11,514.5	7,378.0	80.0	78.3	-56.90	-4,203.0	-965.5	417.6	288.3	129.29	3.229	
11,900.0	7,606.0	11,614.5	7,378.0	81.7	80.0	-56.90	-4,303.0	-965.5	417.6	285.4	132.20	3.158	
12,000.0	7,606.0	11,714.5	7,378.0	83.3	81.7	-56.90	-4,403.0	-965.5	417.6	282.4	135.11	3.090	
12,100.0	7,606.0	11,814.5	7,378.0	85.0	83.3	-56.90	-4,503.0	-965.5	417.6	279.5	138.02	3.025	
12,200.0	7,606.0	11,914.5	7,378.0	86.7	85.0	-56.90	-4,603.0	-965.5	417.6	276.6	140.93	2.963	
12,300.0	7,606.0	12,014.5	7,378.0	88.3	86.7	-56.90	-4,703.0	-965.5	417.6	273.7	143.85	2.903	
12,400.0	7,606.0	12,114.5	7,378.0	90.0	88.4	-56.90	-4,803.0	-965.5	417.6	270.8	146.76	2.845	
12,500.0	7,606.0	12,214.5	7,378.0	91.7	90.2	-56.90	-4,903.0	-965.5	417.6	267.9	149.68	2.790	
12,600.0	7,606.0	12,314.5	7,378.0	93.4	91.9	-56.90	-5,003.0	-965.5	417.6	265.0	152.59	2.736	
12,700.0	7,606.0	12,414.5	7,378.0	95.0	93.6	-56.90	-5,103.0	-965.5	417.6	262.0	155.51	2.685	
12,800.0	7,606.0	12,514.5	7,378.0	96.7	95.3	-56.90	-5,203.0	-965.5	417.6	259.1	158.43	2.636	
12,900.0	7,606.0	12,614.5	7,378.0	98.4	97.0	-56.90	-5,303.0	-965.5	417.6	256.2	161.35	2.588	
13,000.0	7,606.0	12,714.5	7,378.0	100.1	98.7	-56.90	-5,403.0	-965.5	417.6	253.3	164.27	2.542	
13,100.0	7,606.0	12,814.5	7,378.0	101.8	100.4	-56.90	-5,503.0	-965.5	417.6	250.4	167.19	2.497	
13,200.0	7,606.0	12,914.5	7,378.0	103.5	102.1	-56.90	-5,603.0	-965.5	417.6	247.4	170.12	2.455	
13,300.0	7,606.0	13,014.5	7,378.0	105.2	103.8	-56.90	-5,703.0	-965.5	417.6	244.5	173.04	2.413	
13,400.0	7,606.0	13,114.5	7,378.0	106.9	105.6	-56.90	-5,803.0	-965.5	417.6	241.6	175.97	2.373	
13,500.0	7,606.0	13,214.5	7,378.0	108.6	107.3	-56.90	-5,903.0	-965.5	417.6	238.7	178.89	2.334	
13,600.0	7,606.0	13,314.5	7,378.0	110.3	109.0	-56.90	-6,003.0	-965.5	417.6	235.7	181.82	2.297	
13,700.0	7,606.0	13,414.5	7,378.0	112.0	110.7	-56.90	-6,103.0	-965.5	417.6	232.8	184.74	2.260	
13,800.0	7,606.0	13,514.5	7,378.0	113.7	112.4	-56.90	-6,203.0	-965.5	417.6	229.9	187.67	2.225	
13,900.0	7,606.0	13,614.5	7,378.0	115.4	114.2	-56.90	-6,303.0	-965.5	417.6	227.0	190.60	2.191	
14,000.0	7,606.0	13,714.5	7,378.0	117.1	115.9	-56.90	-6,403.0	-965.5	417.6	224.0	193.53	2.158	
14,100.0	7,606.0	13,814.5	7,378.0	118.8	117.6	-56.90	-6,503.0	-965.5	417.6	221.1	196.46	2.125	
14,200.0	7,606.0	13,914.5	7,378.0	120.5	119.3	-56.90	-6,603.0	-965.5	417.6	218.2	199.39	2.094	
14,270.5	7,606.0	13,985.1	7,378.0	121.7	120.6	-56.90	-6,673.5	-965.5	417.6	216.1	201.45	2.073 SF	

Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3D-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	90.02	0.0	11.2	11.2	10.9	0.30	36.850		
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	11.2	11.2	10.5	0.65	17.144		
300.0	300.0	300.0	300.0	0.5	0.5	90.02	0.0	11.2	11.2	10.2	1.00	11.171	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	175.07	0.0	11.2	12.1	10.7	1.35	8.928		
500.0	500.0	500.0	500.0	0.9	0.8	175.95	0.0	11.2	14.7	13.0	1.70	8.633	SF	
600.0	599.9	600.2	600.2	1.0	1.0	176.45	0.2	10.3	18.2	16.1	2.05	8.868		
700.0	699.7	700.5	700.4	1.2	1.2	176.33	0.7	7.7	21.7	19.3	2.40	9.042		
800.0	799.4	800.8	800.7	1.4	1.4	175.85	1.5	3.4	25.2	22.4	2.74	9.177		
900.0	898.9	901.2	900.9	1.7	1.6	175.14	2.7	-2.6	28.7	25.6	3.09	9.286		
1,000.0	998.3	1,001.7	1,001.0	1.9	1.8	174.27	4.2	-10.4	32.3	28.8	3.44	9.377		
1,100.0	1,097.4	1,101.8	1,100.7	2.2	2.0	173.44	6.0	-19.4	36.3	32.5	3.79	9.562		
1,200.0	1,196.3	1,201.6	1,200.1	2.5	2.2	173.05	7.7	-28.5	41.9	37.8	4.14	10.115		
1,300.0	1,294.9	1,301.3	1,299.4	2.8	2.4	173.00	9.5	-37.6	49.3	44.8	4.49	10.969		
1,400.0	1,393.3	1,400.9	1,398.6	3.2	2.7	173.17	11.3	-46.7	58.4	53.5	4.84	12.061		
1,500.0	1,491.4	1,500.4	1,497.6	3.5	2.9	173.40	13.1	-55.8	68.4	63.3	5.19	13.181		
1,600.0	1,589.5	1,599.9	1,596.7	3.9	3.1	173.57	14.8	-64.9	78.5	73.0	5.55	14.158		
1,700.0	1,687.7	1,699.4	1,695.7	4.2	3.3	173.70	16.6	-73.9	88.6	82.7	5.90	15.018		
1,800.0	1,785.8	1,798.9	1,794.8	4.6	3.6	173.81	18.4	-83.0	98.7	92.4	6.25	15.781		
1,900.0	1,883.9	1,898.4	1,893.9	5.0	3.8	173.89	20.2	-92.1	108.8	102.2	6.61	16.462		
2,000.0	1,982.1	1,997.9	1,992.9	5.3	4.0	173.97	21.9	-101.2	118.9	111.9	6.96	17.074		
2,100.0	2,080.2	2,097.3	2,092.0	5.7	4.3	174.03	23.7	-110.3	128.9	121.6	7.32	17.626		
2,200.0	2,178.4	2,196.8	2,191.0	6.1	4.5	174.08	25.5	-119.3	139.0	131.4	7.67	18.128		
2,300.0	2,276.5	2,296.3	2,290.1	6.5	4.7	174.12	27.2	-128.4	149.1	141.1	8.02	18.585		
2,400.0	2,374.6	2,395.8	2,389.1	6.8	5.0	174.16	29.0	-137.5	159.2	150.8	8.38	19.004		
2,500.0	2,472.8	2,495.3	2,488.2	7.2	5.2	174.19	30.8	-146.6	169.3	160.5	8.73	19.388		
2,600.0	2,570.9	2,594.8	2,587.3	7.6	5.4	174.22	32.6	-155.7	179.4	170.3	9.08	19.743		
2,700.0	2,669.1	2,694.3	2,686.3	8.0	5.7	174.25	34.3	-164.7	189.4	180.0	9.44	20.071		
2,800.0	2,767.2	2,793.8	2,785.4	8.4	5.9	174.28	36.1	-173.8	199.5	189.7	9.79	20.375		
2,900.0	2,865.3	2,893.3	2,884.4	8.7	6.1	174.30	37.9	-182.9	209.6	199.5	10.15	20.658		
3,000.0	2,963.5	2,992.8	2,983.5	9.1	6.4	174.32	39.6	-192.0	219.7	209.2	10.50	20.922		
3,100.0	3,061.6	3,092.3	3,082.6	9.5	6.6	174.34	41.4	-201.1	229.8	218.9	10.85	21.169		
3,200.0	3,159.8	3,191.7	3,181.6	9.9	6.9	174.35	43.2	-210.1	239.9	228.6	11.21	21.400		
3,300.0	3,257.9	3,291.2	3,280.7	10.3	7.1	174.37	45.0	-219.2	249.9	238.4	11.56	21.617		
3,400.0	3,356.0	3,390.7	3,379.7	10.6	7.3	174.38	46.7	-228.3	260.0	248.1	11.92	21.821		
3,500.0	3,454.2	3,490.2	3,478.8	11.0	7.6	174.40	48.5	-237.4	270.1	257.8	12.27	22.014		
3,600.0	3,552.3	3,589.7	3,577.9	11.4	7.8	174.41	50.3	-246.5	280.2	267.6	12.62	22.195		
3,700.0	3,650.4	3,689.2	3,676.9	11.8	8.0	174.42	52.1	-255.5	290.3	277.3	12.98	22.367		
3,800.0	3,748.6	3,788.7	3,776.0	12.2	8.3	174.43	53.8	-264.6	300.4	287.0	13.33	22.529		
3,900.0	3,846.7	3,888.2	3,875.0	12.5	8.5	174.44	55.6	-273.7	310.4	296.8	13.69	22.684		
4,000.0	3,944.9	3,987.7	3,974.1	12.9	8.7	174.45	57.4	-282.8	320.5	306.5	14.04	22.830		
4,100.0	4,043.0	4,087.2	4,073.2	13.3	9.0	174.46	59.1	-291.9	330.6	316.2	14.39	22.969		
4,200.0	4,141.1	4,186.6	4,172.2	13.7	9.2	174.47	60.9	-300.9	340.7	325.9	14.75	23.101		
4,300.0	4,239.3	4,286.1	4,271.3	14.1	9.5	174.47	62.7	-310.0	350.8	335.7	15.10	23.228		
4,400.0	4,337.4	4,385.6	4,370.3	14.5	9.7	174.48	64.5	-319.1	360.9	345.4	15.46	23.348		
4,500.0	4,435.6	4,485.1	4,469.4	14.8	9.9	174.49	66.2	-328.2	370.9	355.1	15.81	23.463		
4,600.0	4,533.7	4,584.6	4,568.5	15.2	10.2	174.49	68.0	-337.3	381.0	364.9	16.16	23.573		
4,700.0	4,631.8	4,684.1	4,667.5	15.6	10.4	174.50	69.8	-346.3	391.1	374.6	16.52	23.678		
4,800.0	4,730.0	4,783.6	4,766.6	16.0	10.6	174.51	71.5	-355.4	401.2	384.3	16.87	23.779		
4,900.0	4,828.1	4,883.1	4,865.6	16.4	10.9	174.51	73.3	-364.5	411.3	394.1	17.23	23.876		
5,000.0	4,926.2	4,982.6	4,964.7	16.7	11.1	174.52	75.1	-373.6	421.4	403.8	17.58	23.969		
5,100.0	5,024.4	5,082.1	5,063.7	17.1	11.3	174.52	76.9	-382.6	431.4	413.5	17.93	24.058		

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 3B-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 3B-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	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis							
5,200.0	5,122.5	5,181.5	5,162.8	17.5	11.6	174.53	78.6	-391.7	441.5	423.2	18.29	24.144						
5,300.0	5,220.7	5,281.0	5,261.9	17.9	11.8	174.53	80.4	-400.8	451.6	433.0	18.64	24.226						
5,400.0	5,318.8	5,380.5	5,360.9	18.3	12.1	174.54	82.2	-409.9	461.7	442.7	19.00	24.306						
5,500.0	5,416.9	5,480.0	5,460.0	18.7	12.3	174.54	84.0	-419.0	471.8	452.4	19.35	24.382						
5,600.0	5,515.1	5,579.5	5,559.0	19.0	12.5	174.54	85.7	-428.0	481.9	462.2	19.70	24.456						
5,700.0	5,613.2	5,679.0	5,658.1	19.4	12.8	174.55	87.5	-437.1	491.9	471.9	20.06	24.527						

Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	98.25	-3.7	25.2	25.4					
100.0	100.0	101.0	101.0	0.2	0.2	98.25	-3.7	25.2	25.4	25.1	0.31	83.301		
200.0	200.0	201.0	201.0	0.3	0.3	98.25	-3.7	25.2	25.4	24.8	0.65	38.874		
300.0	300.0	301.0	301.0	0.5	0.5	98.25	-3.7	25.2	25.4	24.4	1.00	25.353 CC, ES		
400.0	400.0	401.0	401.0	0.7	0.7	-177.18	-3.7	25.2	26.3	25.0	1.35	19.456		
500.0	500.0	501.0	501.0	0.9	0.9	-177.43	-3.7	25.2	28.9	27.2	1.70	17.007		
600.0	599.9	600.9	600.9	1.0	1.0	-177.77	-3.7	25.2	33.3	31.2	2.05	16.245		
700.0	699.7	701.3	701.3	1.2	1.2	-178.48	-3.3	24.4	38.5	36.1	2.40	16.071		
800.0	799.4	801.9	801.8	1.4	1.4	-179.72	-2.3	21.9	43.8	41.1	2.75	15.969		
900.0	898.9	902.3	902.1	1.7	1.6	178.72	-0.6	17.9	49.3	46.2	3.09	15.946 SF		
1,000.0	998.3	1,002.0	1,001.8	1.9	1.7	177.41	1.3	13.5	56.2	52.7	3.44	16.329		
1,100.0	1,097.4	1,101.6	1,101.3	2.2	1.9	176.47	3.1	9.2	64.8	61.0	3.79	17.107		
1,200.0	1,196.3	1,201.1	1,200.6	2.5	2.1	175.85	5.0	4.8	75.2	71.0	4.13	18.179		
1,300.0	1,294.9	1,300.4	1,299.8	2.8	2.3	175.47	6.8	0.5	87.2	82.8	4.48	19.477		
1,400.0	1,393.3	1,399.4	1,398.7	3.2	2.5	175.26	8.7	-3.8	101.1	96.2	4.82	20.953		
1,500.0	1,491.4	1,498.3	1,497.5	3.5	2.7	175.15	10.5	-8.2	115.9	110.7	5.17	22.392		
1,600.0	1,589.5	1,597.2	1,596.3	3.9	2.9	175.07	12.3	-12.5	130.7	125.1	5.53	23.647		
1,700.0	1,687.7	1,696.1	1,695.1	4.2	3.1	175.00	14.2	-16.8	145.5	139.6	5.88	24.750		
1,800.0	1,785.8	1,795.0	1,793.8	4.6	3.2	174.95	16.0	-21.2	160.3	154.1	6.23	25.729		
1,900.0	1,883.9	1,893.9	1,892.6	5.0	3.4	174.90	17.8	-25.5	175.1	168.5	6.58	26.603		
2,000.0	1,982.1	1,992.8	1,991.4	5.3	3.6	174.86	19.7	-29.8	189.9	183.0	6.93	27.387		
2,100.0	2,080.2	2,091.7	2,090.2	5.7	3.8	174.83	21.5	-34.1	204.7	197.4	7.29	28.096		
2,200.0	2,178.4	2,190.6	2,189.0	6.1	4.0	174.80	23.3	-38.5	219.5	211.9	7.64	28.739		
2,300.0	2,276.5	2,289.5	2,287.8	6.5	4.2	174.78	25.2	-42.8	234.3	226.3	7.99	29.325		
2,400.0	2,374.6	2,388.4	2,386.6	6.8	4.4	174.76	27.0	-47.1	249.1	240.8	8.34	29.862		
2,500.0	2,472.8	2,487.3	2,485.3	7.2	4.6	174.74	28.9	-51.5	263.9	255.2	8.69	30.355		
2,600.0	2,570.9	2,586.2	2,584.1	7.6	4.8	174.72	30.7	-55.8	278.7	269.7	9.05	30.809		
2,700.0	2,669.1	2,685.1	2,682.9	8.0	4.9	174.70	32.5	-60.1	293.5	284.1	9.40	31.229		
2,800.0	2,767.2	2,784.0	2,781.7	8.4	5.1	174.69	34.4	-64.5	308.3	298.6	9.75	31.619		
2,900.0	2,865.3	2,882.9	2,880.5	8.7	5.3	174.68	36.2	-68.8	323.2	313.1	10.10	31.981		
3,000.0	2,963.5	2,981.8	2,979.3	9.1	5.5	174.67	38.0	-73.1	338.0	327.5	10.46	32.319		
3,100.0	3,061.6	3,080.7	3,078.1	9.5	5.7	174.66	39.9	-77.4	352.8	342.0	10.81	32.635		
3,200.0	3,159.8	3,179.6	3,176.8	9.9	5.9	174.65	41.7	-81.8	367.6	356.4	11.16	32.931		
3,300.0	3,257.9	3,278.5	3,275.6	10.3	6.1	174.64	43.5	-86.1	382.4	370.9	11.51	33.209		
3,400.0	3,356.0	3,377.4	3,374.4	10.6	6.3	174.63	45.4	-90.4	397.2	385.3	11.87	33.470		
3,500.0	3,454.2	3,476.3	3,473.2	11.0	6.5	174.62	47.2	-94.8	412.0	399.8	12.22	33.716		
3,600.0	3,552.3	3,575.1	3,572.0	11.4	6.7	174.61	49.0	-99.1	426.8	414.2	12.57	33.948		
3,700.0	3,650.4	3,674.0	3,670.8	11.8	6.9	174.61	50.9	-103.4	441.6	428.7	12.92	34.168		
3,800.0	3,748.6	3,772.9	3,769.6	12.2	7.0	174.60	52.7	-107.7	456.4	443.1	13.28	34.376		
3,900.0	3,846.7	3,871.8	3,868.3	12.5	7.2	174.59	54.6	-112.1	471.2	457.6	13.63	34.573		
4,000.0	3,944.9	3,970.7	3,967.1	12.9	7.4	174.59	56.4	-116.4	486.0	472.0	13.98	34.760		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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	90.02	0.0	30.8	30.8					
100.0	100.0	101.0	101.0	0.2	0.2	90.02	0.0	30.8	30.8	30.5	0.31	100.759		
200.0	200.0	201.0	201.0	0.3	0.3	90.02	0.0	30.8	30.8	30.1	0.65	47.021		
300.0	300.0	301.0	301.0	0.5	0.5	90.02	0.0	30.8	30.8	29.8	1.00	30.666 CC, ES		
400.0	400.0	401.0	401.0	0.7	0.7	174.83	0.0	30.8	31.6	30.3	1.35	23.397		
500.0	500.0	501.0	501.0	0.9	0.9	175.22	0.0	30.8	34.3	32.6	1.70	20.135		
600.0	599.9	600.9	600.9	1.0	1.0	175.76	0.0	30.8	38.6	36.6	2.05	18.837		
700.0	699.7	700.7	700.7	1.2	1.2	176.33	0.0	30.8	44.7	42.3	2.40	18.648 SF		
800.0	799.4	800.4	800.4	1.4	1.4	176.88	0.0	30.8	52.5	49.8	2.74	19.148		
900.0	898.9	899.9	899.9	1.7	1.5	177.35	0.0	30.8	62.1	59.0	3.09	20.107		
1,000.0	998.3	999.3	999.3	1.9	1.7	177.76	0.0	30.8	73.4	70.0	3.43	21.386		
1,100.0	1,097.4	1,098.4	1,098.4	2.2	1.9	178.09	0.0	30.8	86.4	82.7	3.78	22.900		
1,200.0	1,196.3	1,197.3	1,197.3	2.5	2.1	178.37	0.0	30.8	101.2	97.1	4.12	24.592		
1,300.0	1,294.9	1,295.9	1,295.9	2.8	2.2	178.59	0.0	30.8	117.7	113.3	4.46	26.422		
1,400.0	1,393.3	1,394.3	1,394.3	3.2	2.4	178.78	0.0	30.8	135.9	131.1	4.79	28.363		
1,500.0	1,491.4	1,492.4	1,492.4	3.5	2.6	178.93	0.0	30.8	155.1	150.0	5.14	30.198		
1,600.0	1,589.5	1,590.5	1,590.5	3.9	2.8	179.05	0.0	30.8	174.3	168.9	5.48	31.801		
1,700.0	1,687.7	1,688.7	1,688.7	4.2	2.9	179.14	0.0	30.8	193.5	187.7	5.83	33.214		
1,800.0	1,785.8	1,786.8	1,786.8	4.6	3.1	179.22	0.0	30.8	212.7	206.6	6.17	34.469		
1,900.0	1,883.9	1,884.9	1,884.9	5.0	3.3	179.28	0.0	30.8	231.9	225.4	6.52	35.592		
2,000.0	1,982.1	1,983.1	1,983.1	5.3	3.4	179.34	0.0	30.8	251.1	244.3	6.86	36.602		
2,100.0	2,080.2	2,081.2	2,081.2	5.7	3.6	179.38	0.0	30.8	270.4	263.1	7.21	37.516		
2,200.0	2,178.4	2,179.4	2,179.4	6.1	3.8	179.43	0.0	30.8	289.6	282.0	7.55	38.347		
2,300.0	2,276.5	2,277.5	2,277.5	6.5	4.0	179.46	0.0	30.8	308.8	300.9	7.90	39.105		
2,400.0	2,374.6	2,375.6	2,375.6	6.8	4.1	179.49	0.0	30.8	328.0	319.7	8.24	39.799		
2,500.0	2,472.8	2,473.8	2,473.8	7.2	4.3	179.52	0.0	30.8	347.2	338.6	8.59	40.438		
2,600.0	2,570.9	2,571.9	2,571.9	7.6	4.5	179.55	0.0	30.8	366.4	357.4	8.93	41.028		
2,700.0	2,669.1	2,670.1	2,670.1	8.0	4.6	179.57	0.0	30.8	385.6	376.3	9.27	41.574		
2,800.0	2,767.2	2,768.2	2,768.2	8.4	4.8	179.59	0.0	30.8	404.8	395.2	9.62	42.081		
2,900.0	2,865.3	2,866.3	2,866.3	8.7	5.0	179.61	0.0	30.8	424.0	414.0	9.96	42.553		
3,000.0	2,963.5	2,964.5	2,964.5	9.1	5.2	179.62	0.0	30.8	443.2	432.9	10.31	42.993		
3,100.0	3,061.6	3,062.6	3,062.6	9.5	5.3	179.64	0.0	30.8	462.4	451.7	10.65	43.405		
3,200.0	3,159.8	3,160.8	3,160.8	9.9	5.5	179.65	0.0	30.8	481.6	470.6	11.00	43.792		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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	95.73	-3.6	36.4	36.6					
100.0	100.0	101.0	101.0	0.2	0.2	95.73	-3.6	36.4	36.6	36.2	0.31	119.676		
200.0	200.0	201.0	201.0	0.3	0.3	95.73	-3.6	36.4	36.6	35.9	0.65	55.849		
300.0	300.0	301.0	301.0	0.5	0.5	95.73	-3.6	36.4	36.6	35.5	1.00	36.423 CC, ES		
400.0	400.0	401.0	401.0	0.7	0.7	-179.61	-3.6	36.4	37.4	36.1	1.35	27.672		
500.0	500.0	500.0	500.0	0.9	0.9	179.89	-3.4	37.2	40.9	39.2	1.70	24.044		
600.0	599.9	599.4	599.3	1.0	1.0	178.71	-2.6	39.7	47.6	45.6	2.05	23.279 SF		
700.0	699.7	698.0	697.8	1.2	1.2	177.30	-1.4	43.8	57.8	55.4	2.39	24.157		
800.0	799.4	796.5	796.2	1.4	1.4	176.00	0.3	49.3	71.2	68.4	2.74	25.990		
900.0	898.9	895.3	894.8	1.7	1.6	175.14	2.1	55.1	86.5	83.4	3.08	28.061		
1,000.0	998.3	993.9	993.2	1.9	1.8	174.63	3.9	60.9	103.6	100.2	3.43	30.229		
1,100.0	1,097.4	1,092.1	1,091.2	2.2	2.0	174.33	5.7	66.7	122.4	118.6	3.77	32.468		
1,200.0	1,196.3	1,189.9	1,188.9	2.5	2.2	174.19	7.4	72.4	142.9	138.8	4.11	34.761		
1,300.0	1,294.9	1,287.4	1,286.2	2.8	2.4	174.13	9.2	78.1	165.1	160.7	4.45	37.098		
1,400.0	1,393.3	1,384.6	1,383.1	3.2	2.6	174.14	11.0	83.8	189.0	184.2	4.79	39.471		
1,500.0	1,491.4	1,481.4	1,479.8	3.5	2.8	174.19	12.7	89.5	213.8	208.7	5.13	41.657		
1,600.0	1,589.5	1,578.3	1,576.5	3.9	3.0	174.23	14.5	95.2	238.7	233.2	5.48	43.561		
1,700.0	1,687.7	1,675.1	1,673.2	4.2	3.2	174.26	16.2	100.9	263.5	257.7	5.83	45.240		
1,800.0	1,785.8	1,772.0	1,769.9	4.6	3.3	174.29	18.0	106.6	288.4	282.2	6.17	46.729		
1,900.0	1,883.9	1,868.9	1,866.5	5.0	3.5	174.31	19.7	112.3	313.2	306.7	6.52	48.060		
2,000.0	1,982.1	1,965.7	1,963.2	5.3	3.7	174.33	21.5	118.0	338.1	331.2	6.86	49.257		
2,100.0	2,080.2	2,062.6	2,059.9	5.7	3.9	174.35	23.2	123.7	363.0	355.7	7.21	50.338		
2,200.0	2,178.4	2,159.5	2,156.6	6.1	4.1	174.37	25.0	129.4	387.8	380.2	7.56	51.321		
2,300.0	2,276.5	2,256.3	2,253.3	6.5	4.3	174.38	26.7	135.0	412.7	404.8	7.90	52.217		
2,400.0	2,374.6	2,353.2	2,349.9	6.8	4.5	174.39	28.5	140.7	437.5	429.3	8.25	53.037		
2,500.0	2,472.8	2,450.0	2,446.6	7.2	4.7	174.40	30.2	146.4	462.4	453.8	8.60	53.792		
2,600.0	2,570.9	2,546.9	2,543.3	7.6	4.9	174.41	32.0	152.1	487.2	478.3	8.94	54.488		

Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3H-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	90.01	0.0	42.0	42.0					
100.0	100.0	101.0	101.0	0.2	0.2	90.01	0.0	42.0	42.0	41.7	0.31	137.399		
200.0	200.0	201.0	201.0	0.3	0.3	90.01	0.0	42.0	42.0	41.3	0.65	64.119		
300.0	300.0	301.0	301.0	0.5	0.5	90.01	0.0	42.0	42.0	41.0	1.00	41.817 CC, ES		
400.0	400.0	400.6	400.6	0.7	0.7	174.73	0.0	42.2	43.1	41.7	1.35	31.851		
500.0	500.0	500.0	500.0	0.9	0.9	174.67	0.3	43.9	47.4	45.7	1.70	27.886		
600.0	599.9	598.6	598.5	1.0	1.0	174.50	0.9	47.3	55.2	53.1	2.05	26.969 SF		
700.0	699.7	696.9	696.7	1.2	1.2	174.29	1.7	52.3	66.3	64.0	2.39	27.759		
800.0	799.4	794.6	794.2	1.4	1.4	174.07	2.8	59.0	80.9	78.2	2.73	29.612		
900.0	898.9	891.5	890.7	1.7	1.6	173.87	4.1	67.2	98.9	95.8	3.07	32.169		
1,000.0	998.3	987.7	986.4	1.9	1.8	173.69	5.7	76.9	120.1	116.7	3.41	35.204		
1,100.0	1,097.4	1,084.9	1,083.1	2.2	2.1	173.61	7.4	87.3	143.6	139.9	3.75	38.280		
1,200.0	1,196.3	1,181.7	1,179.3	2.5	2.3	173.61	9.1	97.6	168.8	164.7	4.09	41.275		
1,300.0	1,294.9	1,278.0	1,275.0	2.8	2.5	173.65	10.8	107.9	195.7	191.2	4.43	44.211		
1,400.0	1,393.3	1,373.9	1,370.3	3.2	2.8	173.73	12.5	118.1	224.2	219.4	4.76	47.104		
1,500.0	1,491.4	1,469.5	1,465.3	3.5	3.0	173.84	14.2	128.3	253.6	248.5	5.10	49.726		
1,600.0	1,589.5	1,565.0	1,560.3	3.9	3.3	173.93	15.8	138.4	283.1	277.7	5.44	52.013		
1,700.0	1,687.7	1,660.6	1,655.3	4.2	3.5	174.00	17.5	148.6	312.6	306.8	5.79	54.028		
1,800.0	1,785.8	1,756.1	1,750.3	4.6	3.7	174.06	19.2	158.8	342.0	335.9	6.13	55.819		
1,900.0	1,883.9	1,851.7	1,845.3	5.0	4.0	174.11	20.8	169.0	371.5	365.0	6.47	57.419		
2,000.0	1,982.1	1,947.2	1,940.3	5.3	4.2	174.15	22.5	179.2	401.0	394.2	6.81	58.858		
2,100.0	2,080.2	2,042.8	2,035.3	5.7	4.5	174.19	24.2	189.3	430.5	423.3	7.16	60.160		
2,200.0	2,178.4	2,138.4	2,130.3	6.1	4.7	174.22	25.9	199.5	459.9	452.4	7.50	61.342		
2,300.0	2,276.5	2,233.9	2,225.3	6.5	4.9	174.25	27.5	209.7	489.4	481.6	7.84	62.421		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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: 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	1.0	1.0	0.0	0.0	93.73	-3.6	56.0	56.1					
100.0	100.0	101.0	101.0	0.2	0.2	93.73	-3.6	56.0	56.1	55.8	0.31	183.587		
200.0	200.0	201.0	201.0	0.3	0.3	93.73	-3.6	56.0	56.1	55.4	0.65	85.671		
300.0	300.0	301.9	301.9	0.5	0.5	94.13	-4.0	55.1	55.3	54.3	1.01	54.932		
400.0	400.0	402.7	402.7	0.7	0.7	-179.95	-5.0	52.6	53.8	52.4	1.36	39.613		
500.0	500.0	503.5	503.4	0.9	0.9	-177.75	-6.6	48.5	52.5	50.8	1.71	30.671		
600.0	599.9	604.3	603.9	1.0	1.1	-174.57	-8.9	42.7	51.5	49.4	2.07	24.893		
700.0	699.7	704.9	704.3	1.2	1.3	-170.44	-11.8	35.3	51.0	48.6	2.44	20.927		
732.2	731.8	737.4	736.6	1.3	1.4	-168.91	-12.9	32.5	51.0	48.4	2.56	19.909 CC		
800.0	799.4	805.5	804.4	1.4	1.5	-165.43	-15.4	26.2	51.1	48.3	2.82	18.107 ES		
900.0	898.9	906.1	904.3	1.7	1.8	-159.72	-19.6	15.5	52.1	48.9	3.24	16.063		
1,000.0	998.3	1,006.5	1,003.8	1.9	2.1	-153.60	-24.4	3.2	54.0	50.3	3.71	14.573		
1,100.0	1,097.4	1,106.8	1,103.0	2.2	2.4	-147.39	-29.9	-10.7	57.1	52.9	4.23	13.494		
1,200.0	1,196.3	1,207.0	1,201.8	2.5	2.7	-141.40	-36.0	-26.2	61.4	56.6	4.83	12.726		
1,300.0	1,294.9	1,307.1	1,300.2	2.8	3.0	-135.85	-42.7	-43.2	67.0	61.5	5.49	12.199		
1,400.0	1,393.3	1,407.0	1,398.1	3.2	3.4	-130.88	-50.1	-61.9	73.8	67.5	6.22	11.853		
1,500.0	1,491.4	1,506.8	1,495.5	3.5	3.8	-126.16	-58.1	-82.1	81.3	74.3	7.02	11.587		
1,600.0	1,589.5	1,606.4	1,592.3	3.9	4.3	-121.17	-66.6	-103.8	89.1	81.2	7.86	11.333		
1,700.0	1,687.7	1,705.8	1,688.6	4.2	4.7	-116.25	-75.6	-126.7	97.5	88.7	8.73	11.168		
1,800.0	1,785.8	1,805.1	1,784.8	4.6	5.2	-112.09	-84.7	-149.6	106.4	96.9	9.58	11.112		
1,900.0	1,883.9	1,904.4	1,881.0	5.0	5.6	-108.59	-93.7	-172.5	115.9	105.5	10.42	11.126		
2,000.0	1,982.1	2,003.7	1,977.3	5.3	6.1	-105.62	-102.7	-195.4	125.7	114.4	11.24	11.184		
2,100.0	2,080.2	2,103.1	2,073.5	5.7	6.6	-103.09	-111.8	-218.3	135.8	123.7	12.05	11.269		
2,200.0	2,178.4	2,202.4	2,169.7	6.1	7.0	-100.91	-120.8	-241.2	146.1	133.3	12.85	11.370		
2,300.0	2,276.5	2,301.7	2,265.9	6.5	7.5	-99.02	-129.8	-264.2	156.6	143.0	13.64	11.480		
2,400.0	2,374.6	2,401.0	2,362.1	6.8	8.0	-97.37	-138.8	-287.1	167.3	152.8	14.43	11.593		
2,500.0	2,472.8	2,500.3	2,458.4	7.2	8.4	-95.92	-147.9	-310.0	178.0	162.8	15.21	11.708		
2,600.0	2,570.9	2,599.7	2,554.6	7.6	8.9	-94.63	-156.9	-332.9	188.9	172.9	15.98	11.821		
2,700.0	2,669.1	2,699.0	2,650.8	8.0	9.4	-93.48	-165.9	-355.8	199.9	183.1	16.75	11.931		
2,800.0	2,767.2	2,798.3	2,747.0	8.4	9.8	-92.46	-175.0	-378.7	210.9	193.4	17.52	12.038		
2,900.0	2,865.3	2,897.6	2,843.3	8.7	10.3	-91.53	-184.0	-401.6	222.0	203.7	18.28	12.142		
3,000.0	2,963.5	2,997.0	2,939.5	9.1	10.8	-90.70	-193.0	-424.5	233.1	214.1	19.04	12.241		
3,100.0	3,061.6	3,096.3	3,035.7	9.5	11.2	-89.94	-202.1	-447.5	244.3	224.5	19.80	12.337		
3,200.0	3,159.8	3,195.6	3,131.9	9.9	11.7	-89.24	-211.1	-470.4	255.5	235.0	20.56	12.428		
3,300.0	3,257.9	3,294.9	3,228.1	10.3	12.2	-88.61	-220.1	-493.3	266.8	245.5	21.32	12.515		
3,400.0	3,356.0	3,394.3	3,324.4	10.6	12.6	-88.02	-229.2	-516.2	278.1	256.0	22.07	12.599		
3,500.0	3,454.2	3,493.6	3,420.6	11.0	13.1	-87.48	-238.2	-539.1	289.4	266.6	22.83	12.678		
3,600.0	3,552.3	3,592.9	3,516.8	11.4	13.6	-86.99	-247.2	-562.0	300.7	277.2	23.58	12.755		
3,700.0	3,650.4	3,692.2	3,613.0	11.8	14.1	-86.53	-256.3	-584.9	312.1	287.8	24.33	12.827		
3,800.0	3,748.6	3,791.5	3,709.2	12.2	14.5	-86.10	-265.3	-607.8	323.5	298.4	25.08	12.897		
3,900.0	3,846.7	3,890.9	3,805.5	12.5	15.0	-85.70	-274.3	-630.8	334.9	309.0	25.83	12.963		
4,000.0	3,944.9	3,990.2	3,901.7	12.9	15.5	-85.32	-283.3	-653.7	346.3	319.7	26.58	13.027		
4,100.0	4,043.0	4,089.5	3,997.9	13.3	15.9	-84.97	-292.4	-676.6	357.7	330.4	27.33	13.088		
4,200.0	4,141.1	4,188.8	4,094.1	13.7	16.4	-84.64	-301.4	-699.5	369.1	341.0	28.08	13.146		
4,300.0	4,239.3	4,288.2	4,190.3	14.1	16.9	-84.34	-310.4	-722.4	380.6	351.7	28.83	13.202		
4,400.0	4,337.4	4,387.5	4,286.6	14.5	17.4	-84.05	-319.5	-745.3	392.0	362.4	29.57	13.256		
4,500.0	4,435.6	4,486.8	4,382.8	14.8	17.8	-83.77	-328.5	-768.2	403.5	373.2	30.32	13.307		
4,600.0	4,533.7	4,586.1	4,479.0	15.2	18.3	-83.51	-337.5	-791.1	415.0	383.9	31.07	13.356		
4,700.0	4,631.8	4,685.4	4,575.2	15.6	18.8	-83.27	-346.6	-814.1	426.4	394.6	31.81	13.404		
4,800.0	4,730.0	4,784.8	4,671.4	16.0	19.3	-83.04	-355.6	-837.0	437.9	405.4	32.56	13.449		
4,900.0	4,828.1	4,884.1	4,767.7	16.4	19.7	-82.82	-364.6	-859.9	449.4	416.1	33.31	13.493		
5,000.0	4,926.2	4,983.4	4,863.9	16.7	20.2	-82.61	-373.7	-882.8	460.9	426.9	34.05	13.536		

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 3B-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 3B-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							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	5,024.4	5,082.7	4,960.1	17.1	20.7	-82.41	-382.7	-905.7	472.4	437.6	34.80	13.576			
5,200.0	5,122.5	5,182.1	5,056.3	17.5	21.1	-82.22	-391.7	-928.6	484.0	448.4	35.54	13.615			
5,300.0	5,220.7	5,281.4	5,152.6	17.9	21.6	-82.04	-400.7	-951.5	495.5	459.2	36.29	13.653			
7,400.0	7,274.6	8,203.7	7,606.0	25.8	31.9	100.31	61.9	-1,535.8	436.4	399.5	36.83	11.847			
7,500.0	7,360.1	8,154.9	7,606.0	26.2	31.9	108.06	13.1	-1,535.8	363.3	326.8	36.55	9.941			
7,600.0	7,436.0	8,062.3	7,601.1	26.5	31.8	104.45	-79.2	-1,534.6	302.5	269.0	33.42	9.051			
7,700.0	7,500.0	7,974.1	7,583.2	26.8	31.8	96.59	-165.4	-1,530.3	252.8	221.9	30.89	8.183			
7,800.0	7,550.1	7,897.7	7,557.5	27.3	31.8	86.38	-237.1	-1,524.2	221.4	191.8	29.57	7.486			
7,878.4	7,578.7	7,842.7	7,533.4	27.6	31.8	76.85	-286.1	-1,518.5	213.6	184.5	29.12	7.335 SF			
7,900.0	7,584.9	7,828.1	7,526.2	27.7	31.8	74.05	-298.7	-1,516.8	214.2	185.1	29.01	7.382			
8,000.0	7,603.2	7,762.9	7,490.5	28.3	31.8	60.84	-352.6	-1,508.3	230.0	201.4	28.63	8.036			
8,100.0	7,606.0	7,700.0	7,450.6	28.8	31.8	49.56	-400.2	-1,498.8	262.1	233.8	28.25	9.276			
8,200.0	7,606.0	7,650.0	7,415.4	29.5	31.7	42.43	-434.8	-1,490.4	309.3	281.8	27.48	11.255			
8,300.0	7,606.0	7,600.0	7,377.5	30.3	31.7	35.88	-466.0	-1,481.3	369.4	342.9	26.48	13.951			
8,400.0	7,606.0	7,570.2	7,353.7	31.1	31.7	32.34	-482.9	-1,475.7	438.6	412.5	26.10	16.805			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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		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	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	301.5	301.5	0.5	0.5	90.10	-0.1	61.3	61.3	60.3	1.00	61.071		
400.0	400.0	402.4	402.4	0.7	0.7	175.61	-0.9	59.7	60.6	59.3	1.36	44.731		
500.0	500.0	503.4	503.3	0.9	0.9	177.39	-2.5	56.6	60.1	58.4	1.71	35.212		
598.4	598.3	602.6	602.4	1.0	1.1	-179.95	-4.9	51.9	60.0	57.9	2.06	29.136 CC		
600.0	599.9	604.2	604.0	1.0	1.1	-179.90	-4.9	51.8	60.0	57.9	2.06	29.055		
700.0	699.7	705.0	704.5	1.2	1.3	-176.29	-8.2	45.4	60.2	57.8	2.43	24.821 ES		
800.0	799.4	805.8	804.9	1.4	1.5	-171.88	-12.2	37.5	61.1	58.3	2.80	21.805		
900.0	898.9	906.4	905.0	1.7	1.7	-166.84	-17.0	28.0	62.7	59.5	3.20	19.614		
1,000.0	998.3	1,006.9	1,004.7	1.9	2.0	-161.38	-22.5	17.0	65.4	61.8	3.63	18.005		
1,100.0	1,097.4	1,107.3	1,104.1	2.2	2.3	-155.77	-28.9	4.4	69.2	65.1	4.11	16.818		
1,200.0	1,196.3	1,207.6	1,203.2	2.5	2.6	-150.25	-36.0	-9.7	74.3	69.6	4.66	15.947		
1,300.0	1,294.9	1,307.8	1,301.8	2.8	2.9	-145.02	-44.0	-25.3	80.7	75.4	5.27	15.317		
1,400.0	1,393.3	1,407.7	1,399.9	3.2	3.3	-140.23	-52.6	-42.5	88.4	82.5	5.94	14.871		
1,500.0	1,491.4	1,507.4	1,497.3	3.5	3.7	-135.81	-61.9	-60.9	97.0	90.3	6.68	14.527		
1,600.0	1,589.5	1,606.7	1,594.5	3.9	4.1	-132.03	-71.3	-79.4	106.0	98.6	7.43	14.270		
1,700.0	1,687.7	1,706.1	1,691.7	4.2	4.5	-128.85	-80.7	-98.0	115.4	107.2	8.19	14.089		
1,800.0	1,785.8	1,805.5	1,788.8	4.6	4.8	-126.15	-90.1	-116.5	125.1	116.2	8.96	13.964		
1,900.0	1,883.9	1,904.8	1,886.0	5.0	5.2	-123.85	-99.5	-135.1	135.1	125.3	9.73	13.878		
2,000.0	1,982.1	2,004.2	1,983.2	5.3	5.6	-121.86	-108.9	-153.6	145.2	134.7	10.51	13.821		
2,100.0	2,080.2	2,103.6	2,080.3	5.7	6.0	-120.14	-118.3	-172.1	155.5	144.2	11.28	13.785		
2,200.0	2,178.4	2,202.9	2,177.5	6.1	6.4	-118.62	-127.6	-190.7	165.9	153.8	12.05	13.764		
2,300.0	2,276.5	2,302.3	2,274.7	6.5	6.8	-117.29	-137.0	-209.2	176.4	163.6	12.82	13.755		
2,400.0	2,374.6	2,401.7	2,371.9	6.8	7.2	-116.11	-146.4	-227.8	187.0	173.4	13.59	13.754		
2,500.0	2,472.8	2,501.0	2,469.0	7.2	7.6	-115.05	-155.8	-246.3	197.6	183.3	14.36	13.758		
2,600.0	2,570.9	2,600.4	2,566.2	7.6	8.0	-114.11	-165.2	-264.9	208.3	193.2	15.13	13.767		
2,700.0	2,669.1	2,699.8	2,663.4	8.0	8.4	-113.25	-174.6	-283.4	219.1	203.2	15.90	13.779		
2,800.0	2,767.2	2,799.1	2,760.5	8.4	8.8	-112.48	-183.9	-302.0	229.9	213.3	16.67	13.793		
2,900.0	2,865.3	2,898.5	2,857.7	8.7	9.2	-111.77	-193.3	-320.5	240.8	223.3	17.44	13.808		
3,000.0	2,963.5	2,997.9	2,954.9	9.1	9.7	-111.13	-202.7	-339.1	251.7	233.5	18.20	13.825		
3,100.0	3,061.6	3,097.2	3,052.0	9.5	10.1	-110.54	-212.1	-357.6	262.6	243.6	18.97	13.842		
3,200.0	3,159.8	3,196.6	3,149.2	9.9	10.5	-110.00	-221.5	-376.2	273.5	253.8	19.73	13.860		
3,300.0	3,257.9	3,296.0	3,246.4	10.3	10.9	-109.50	-230.9	-394.7	284.5	264.0	20.50	13.877		
3,400.0	3,356.0	3,395.3	3,343.6	10.6	11.3	-109.03	-240.3	-413.2	295.5	274.2	21.26	13.895		
3,500.0	3,454.2	3,494.7	3,440.7	11.0	11.7	-108.60	-249.6	-431.8	306.5	284.4	22.03	13.913		
3,600.0	3,552.3	3,594.1	3,537.9	11.4	12.1	-108.20	-259.0	-450.3	317.5	294.7	22.79	13.930		
3,700.0	3,650.4	3,693.4	3,635.1	11.8	12.5	-107.83	-268.4	-468.9	328.5	304.9	23.55	13.947		
3,800.0	3,748.6	3,792.8	3,732.2	12.2	12.9	-107.48	-277.8	-487.4	339.5	315.2	24.32	13.964		
3,900.0	3,846.7	3,892.2	3,829.4	12.5	13.3	-107.15	-287.2	-506.0	350.6	325.5	25.08	13.980		
4,000.0	3,944.9	3,991.6	3,926.6	12.9	13.7	-106.84	-296.6	-524.5	361.7	335.8	25.84	13.996		
4,100.0	4,043.0	4,090.9	4,023.7	13.3	14.1	-106.55	-306.0	-543.1	372.7	346.1	26.60	14.011		
4,200.0	4,141.1	4,190.3	4,120.9	13.7	14.5	-106.28	-315.3	-561.6	383.8	356.4	27.36	14.027		
4,300.0	4,239.3	4,289.7	4,218.1	14.1	14.9	-106.02	-324.7	-580.2	394.9	366.8	28.12	14.041		
4,400.0	4,337.4	4,389.0	4,315.3	14.5	15.3	-105.78	-334.1	-598.7	406.0	377.1	28.89	14.056		
4,500.0	4,435.6	4,488.4	4,412.4	14.8	15.7	-105.55	-343.5	-617.3	417.1	387.5	29.65	14.069		
4,600.0	4,533.7	4,587.8	4,509.6	15.2	16.1	-105.33	-352.9	-635.8	428.2	397.8	30.41	14.083		
4,700.0	4,631.8	4,687.1	4,606.8	15.6	16.5	-105.12	-362.3	-654.4	439.3	408.2	31.17	14.096		
4,800.0	4,730.0	4,786.5	4,703.9	16.0	17.0	-104.92	-371.6	-672.9	450.5	418.5	31.93	14.109		
4,900.0	4,828.1	4,885.9	4,801.1	16.4	17.4	-104.73	-381.0	-691.4	461.6	428.9	32.69	14.121		
5,000.0	4,926.2	4,985.2	4,898.3	16.7	17.8	-104.56	-390.4	-710.0	472.7	439.3	33.45	14.133		

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 3B-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 3B-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	5,024.4	5,084.6	4,995.4	17.1	18.2	-104.39	-399.8	-728.5	483.9	449.6	34.21	14.145		
5,200.0	5,122.5	5,184.0	5,092.6	17.5	18.6	-104.22	-409.2	-747.1	495.0	460.0	34.97	14.156		
7,000.0	6,889.0	7,955.1	7,378.0	24.4	26.2	-179.52	109.7	-1,183.3	488.0	461.8	26.24	18.601		
7,100.0	6,987.2	7,956.9	7,378.0	24.8	26.2	179.29	111.5	-1,183.3	390.0	363.6	26.42	14.762		
7,200.0	7,085.3	7,956.2	7,378.0	25.2	26.2	-172.80	110.9	-1,183.3	293.3	263.2	30.08	9.752		
7,300.0	7,182.0	7,940.2	7,378.0	25.5	26.2	-155.93	94.8	-1,183.3	201.1	166.2	34.90	5.762		
7,400.0	7,274.6	7,907.3	7,378.0	25.8	26.1	-138.15	61.9	-1,183.3	122.6	90.8	31.84	3.851		
7,500.0	7,360.1	7,858.5	7,378.0	26.2	26.0	-109.28	13.1	-1,183.3	85.8	58.9	26.90	3.189 SF		
7,500.6	7,360.6	7,858.1	7,378.0	26.2	26.0	-109.07	12.7	-1,183.3	85.8	58.9	26.90	3.189		
7,600.0	7,436.0	7,800.0	7,376.2	26.5	26.0	-74.63	-45.3	-1,183.0	116.5	84.8	31.67	3.677		
7,700.0	7,500.0	7,750.0	7,370.2	26.8	26.0	-53.08	-95.0	-1,181.8	175.5	142.3	33.19	5.286		
7,800.0	7,550.1	7,690.9	7,357.7	27.3	26.0	-39.38	-152.6	-1,179.4	237.8	207.7	30.08	7.905		
7,900.0	7,584.9	7,637.0	7,341.2	27.7	26.0	-31.98	-203.9	-1,176.3	297.2	272.0	25.12	11.831		
8,000.0	7,603.2	7,583.5	7,320.3	28.3	26.0	-27.55	-252.8	-1,172.3	351.4	331.0	20.41	17.215		
8,100.0	7,606.0	7,530.9	7,295.4	28.8	26.0	-25.37	-298.9	-1,167.5	400.8	382.1	18.65	21.488		
8,200.0	7,606.0	7,483.0	7,269.1	29.5	26.1	-24.33	-338.7	-1,162.5	455.3	436.4	18.98	23.985		

Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	93.11	-3.6	67.1	67.2					
100.0	100.0	101.0	101.0	0.2	0.2	93.11	-3.6	67.1	67.2	66.9	0.31	220.161		
200.0	200.0	201.0	201.0	0.3	0.3	93.11	-3.6	67.1	67.2	66.6	0.65	102.742		
300.0	300.0	301.0	301.0	0.5	0.5	93.11	-3.6	67.1	67.2	66.2	1.00	67.006 CC, ES		
400.0	400.0	401.5	401.5	0.7	0.7	177.92	-3.8	67.0	67.9	66.6	1.35	50.198		
500.0	500.0	502.4	502.4	0.9	0.9	178.92	-4.8	65.5	69.2	67.5	1.70	40.581		
600.0	599.9	603.3	603.2	1.0	1.0	-179.19	-6.8	62.6	70.8	68.8	2.06	34.423		
700.0	699.7	704.2	703.9	1.2	1.2	-176.50	-9.9	58.2	73.0	70.6	2.41	30.234		
800.0	799.4	804.9	804.5	1.4	1.4	-173.15	-14.0	52.3	75.9	73.1	2.78	27.281		
900.0	898.9	905.6	904.8	1.7	1.7	-169.29	-19.0	45.1	79.6	76.4	3.16	25.158		
1,000.0	998.3	1,006.2	1,004.8	1.9	1.9	-165.11	-25.1	36.4	84.2	80.7	3.57	23.612		
1,100.0	1,097.4	1,106.7	1,104.5	2.2	2.1	-160.77	-32.2	26.2	90.1	86.1	4.01	22.476		
1,200.0	1,196.3	1,207.0	1,203.8	2.5	2.4	-156.46	-40.2	14.7	97.2	92.7	4.49	21.634		
1,300.0	1,294.9	1,306.8	1,302.4	2.8	2.7	-152.38	-49.1	1.9	105.6	100.6	5.02	21.044		
1,400.0	1,393.3	1,406.1	1,400.4	3.2	3.0	-149.20	-58.2	-11.1	115.9	110.3	5.57	20.795		
1,500.0	1,491.4	1,505.3	1,498.3	3.5	3.3	-146.83	-67.2	-24.1	127.3	121.2	6.15	20.701		
1,600.0	1,589.5	1,604.5	1,596.3	3.9	3.6	-144.86	-76.3	-37.1	138.9	132.2	6.74	20.602		
1,700.0	1,687.7	1,703.7	1,694.2	4.2	4.0	-143.19	-85.3	-50.1	150.6	143.3	7.35	20.506		
1,800.0	1,785.8	1,803.0	1,792.2	4.6	4.3	-141.76	-94.4	-63.1	162.5	154.5	7.96	20.414		
1,900.0	1,883.9	1,902.2	1,890.1	5.0	4.6	-140.53	-103.4	-76.0	174.4	165.8	8.58	20.329		
2,000.0	1,982.1	2,001.4	1,988.1	5.3	4.9	-139.46	-112.5	-89.0	186.4	177.2	9.20	20.250		
2,100.0	2,080.2	2,100.6	2,086.1	5.7	5.2	-138.51	-121.5	-102.0	198.4	188.6	9.83	20.178		
2,200.0	2,178.4	2,199.9	2,184.0	6.1	5.6	-137.68	-130.6	-115.0	210.5	200.1	10.47	20.112		
2,300.0	2,276.5	2,299.1	2,282.0	6.5	5.9	-136.93	-139.6	-128.0	222.7	211.6	11.11	20.052		
2,400.0	2,374.6	2,398.3	2,379.9	6.8	6.2	-136.27	-148.7	-140.9	234.8	223.1	11.74	19.997		
2,500.0	2,472.8	2,497.5	2,477.9	7.2	6.5	-135.66	-157.7	-153.9	247.0	234.7	12.39	19.946		
2,600.0	2,570.9	2,596.7	2,575.8	7.6	6.8	-135.12	-166.8	-166.9	259.3	246.2	13.03	19.900		
2,700.0	2,669.1	2,696.0	2,673.8	8.0	7.2	-134.62	-175.8	-179.9	271.5	257.8	13.67	19.858		
2,800.0	2,767.2	2,795.2	2,771.7	8.4	7.5	-134.17	-184.9	-192.9	283.8	269.5	14.32	19.819		
2,900.0	2,865.3	2,894.4	2,869.7	8.7	7.8	-133.75	-193.9	-205.9	296.0	281.1	14.97	19.783		
3,000.0	2,963.5	2,993.6	2,967.6	9.1	8.1	-133.37	-203.0	-218.8	308.3	292.7	15.61	19.749		
3,100.0	3,061.6	3,092.8	3,065.6	9.5	8.5	-133.02	-212.0	-231.8	320.6	304.4	16.26	19.718		
3,200.0	3,159.8	3,192.1	3,163.5	9.9	8.8	-132.69	-221.1	-244.8	333.0	316.0	16.91	19.690		
3,300.0	3,257.9	3,291.3	3,261.5	10.3	9.1	-132.38	-230.1	-257.8	345.3	327.7	17.56	19.663		
3,400.0	3,356.0	3,390.5	3,359.4	10.6	9.4	-132.10	-239.2	-270.8	357.6	339.4	18.21	19.638		
3,500.0	3,454.2	3,489.7	3,457.4	11.0	9.8	-131.84	-248.2	-283.8	370.0	351.1	18.86	19.615		
3,600.0	3,552.3	3,589.0	3,555.3	11.4	10.1	-131.59	-257.3	-296.7	382.3	362.8	19.51	19.593		
3,700.0	3,650.4	3,688.2	3,653.3	11.8	10.4	-131.36	-266.3	-309.7	394.7	374.5	20.16	19.573		
3,800.0	3,748.6	3,787.4	3,751.2	12.2	10.7	-131.14	-275.4	-322.7	407.0	386.2	20.82	19.554		
3,900.0	3,846.7	3,886.6	3,849.2	12.5	11.1	-130.94	-284.4	-335.7	419.4	397.9	21.47	19.535		
4,000.0	3,944.9	3,985.8	3,947.1	12.9	11.4	-130.74	-293.5	-348.7	431.8	409.6	22.12	19.519		
4,100.0	4,043.0	4,085.1	4,045.1	13.3	11.7	-130.56	-302.5	-361.6	444.1	421.4	22.77	19.502		
4,200.0	4,141.1	4,184.3	4,143.0	13.7	12.1	-130.39	-311.6	-374.6	456.5	433.1	23.43	19.487		
4,300.0	4,239.3	4,283.5	4,241.0	14.1	12.4	-130.22	-320.6	-387.6	468.9	444.8	24.08	19.473		
4,400.0	4,337.4	4,382.7	4,338.9	14.5	12.7	-130.07	-329.7	-400.6	481.3	456.6	24.73	19.459		
4,500.0	4,435.6	4,481.9	4,436.9	14.8	13.0	-129.92	-338.7	-413.6	493.7	468.3	25.39	19.446		
7,500.0	7,360.1	8,033.4	7,606.0	26.2	21.2	-119.71	13.1	-833.6	498.1	470.4	27.71	17.973		
7,600.0	7,436.0	7,959.6	7,603.2	26.5	21.1	-111.20	-60.7	-833.2	478.8	451.7	27.11	17.662		
7,700.0	7,500.0	7,886.8	7,591.5	26.8	21.1	-103.05	-132.4	-831.7	471.8	444.1	27.62	17.083		
7,710.5	7,505.9	7,879.6	7,589.8	26.9	21.1	-102.23	-139.5	-831.5	471.7	444.0	27.73	17.010		
7,800.0	7,550.1	7,819.6	7,572.7	27.3	21.1	-95.37	-196.9	-829.2	475.9	447.1	28.78	16.534		
7,900.0	7,584.9	7,755.9	7,548.2	27.7	21.2	-88.08	-255.5	-826.0	489.2	459.4	29.79	16.420 SF		

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

Anticollision Report

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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	90.00	0.0	69.9	69.9					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	69.9	69.9	69.6	0.31	228.998		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	69.9	69.9	69.3	0.65	106.866		
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	69.9	69.9	68.9	1.00	69.695 CC, ES		
400.0	400.0	401.0	401.0	0.7	0.7	174.73	0.0	69.9	70.8	69.5	1.35	52.356		
500.0	500.0	501.8	501.8	0.9	0.9	175.46	-0.7	69.3	72.8	71.1	1.70	42.770		
600.0	599.9	602.6	602.5	1.0	1.0	177.26	-2.7	67.6	75.5	73.4	2.05	36.741		
700.0	699.7	703.3	703.1	1.2	1.2	180.00	-6.0	64.6	78.9	76.5	2.41	32.740		
800.0	799.4	803.9	803.5	1.4	1.4	-176.54	-10.7	60.6	83.3	80.5	2.77	30.025		
900.0	898.9	904.3	903.6	1.7	1.6	-172.58	-16.7	55.3	88.8	85.7	3.15	28.184		
1,000.0	998.3	1,004.6	1,003.4	1.9	1.8	-168.33	-23.9	48.9	95.7	92.1	3.55	26.958		
1,100.0	1,097.4	1,104.6	1,102.8	2.2	2.1	-164.02	-32.5	41.4	104.1	100.1	3.98	26.172		
1,200.0	1,196.3	1,203.9	1,201.3	2.5	2.3	-160.11	-41.9	33.2	114.3	109.8	4.43	25.807 SF		
1,300.0	1,294.9	1,303.0	1,299.6	2.8	2.6	-157.13	-51.2	24.9	126.4	121.6	4.89	25.833		
1,400.0	1,393.3	1,401.9	1,397.7	3.2	2.9	-154.97	-60.6	16.7	140.5	135.1	5.38	26.125		
1,500.0	1,491.4	1,500.6	1,495.7	3.5	3.1	-153.40	-69.9	8.5	155.6	149.7	5.88	26.476		
1,600.0	1,589.5	1,599.4	1,593.7	3.9	3.4	-152.12	-79.3	0.3	170.7	164.3	6.38	26.745		
1,700.0	1,687.7	1,698.2	1,691.7	4.2	3.7	-151.04	-88.6	-7.9	186.0	179.1	6.90	26.956		
1,800.0	1,785.8	1,797.0	1,789.7	4.6	3.9	-150.13	-98.0	-16.1	201.2	193.8	7.42	27.124		
1,900.0	1,883.9	1,895.7	1,887.7	5.0	4.2	-149.35	-107.3	-24.3	216.6	208.6	7.95	27.258		
2,000.0	1,982.1	1,994.5	1,985.7	5.3	4.5	-148.67	-116.6	-32.5	231.9	223.5	8.48	27.367		
2,100.0	2,080.2	2,093.3	2,083.7	5.7	4.7	-148.08	-126.0	-40.7	247.3	238.3	9.01	27.456		
2,200.0	2,178.4	2,192.1	2,181.7	6.1	5.0	-147.55	-135.3	-48.9	262.7	253.2	9.54	27.529		
2,300.0	2,276.5	2,290.9	2,279.7	6.5	5.3	-147.09	-144.7	-57.1	278.2	268.1	10.08	27.590		
2,400.0	2,374.6	2,389.6	2,377.6	6.8	5.6	-146.67	-154.0	-65.3	293.6	283.0	10.62	27.641		
2,500.0	2,472.8	2,488.4	2,475.6	7.2	5.8	-146.29	-163.3	-73.5	309.1	297.9	11.17	27.684		
2,600.0	2,570.9	2,587.2	2,573.6	7.6	6.1	-145.95	-172.7	-81.7	324.6	312.9	11.71	27.721		
2,700.0	2,669.1	2,686.0	2,671.6	8.0	6.4	-145.64	-182.0	-89.9	340.1	327.8	12.25	27.752		
2,800.0	2,767.2	2,784.7	2,769.6	8.4	6.7	-145.36	-191.4	-98.1	355.6	342.8	12.80	27.779		
2,900.0	2,865.3	2,883.5	2,867.6	8.7	6.9	-145.10	-200.7	-106.3	371.1	357.7	13.35	27.802		
3,000.0	2,963.5	2,982.3	2,965.6	9.1	7.2	-144.86	-210.1	-114.5	386.6	372.7	13.89	27.822		
3,100.0	3,061.6	3,081.1	3,063.6	9.5	7.5	-144.64	-219.4	-122.7	402.1	387.6	14.44	27.840		
3,200.0	3,159.8	3,179.9	3,161.6	9.9	7.8	-144.44	-228.7	-130.9	417.6	402.6	14.99	27.855		
3,300.0	3,257.9	3,278.6	3,259.6	10.3	8.0	-144.25	-238.1	-139.1	433.1	417.6	15.54	27.869		
3,400.0	3,356.0	3,377.4	3,357.6	10.6	8.3	-144.08	-247.4	-147.4	448.7	432.6	16.09	27.881		
3,500.0	3,454.2	3,476.2	3,455.6	11.0	8.6	-143.91	-256.8	-155.6	464.2	447.6	16.64	27.891		
3,600.0	3,552.3	3,575.0	3,553.5	11.4	8.9	-143.76	-266.1	-163.8	479.7	462.5	17.19	27.901		
3,700.0	3,650.4	3,673.7	3,651.5	11.8	9.1	-143.62	-275.4	-172.0	495.3	477.5	17.75	27.909		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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	92.40	-3.6	86.7	86.8					
100.0	100.0	101.0	101.0	0.2	0.2	92.40	-3.6	86.7	86.8	86.5	0.31	284.208		
200.0	200.0	201.0	201.0	0.3	0.3	92.41	-3.6	86.7	86.8	86.2	0.65	132.628		
300.0	300.0	301.4	301.4	0.5	0.5	92.97	-4.5	86.4	86.5	85.5	1.00	86.163		
338.5	338.5	340.1	340.1	0.6	0.6	178.16	-5.3	86.2	86.5	85.3	1.14	75.711 CC, ES		
400.0	400.0	401.8	401.8	0.7	0.7	179.35	-7.0	85.5	86.7	85.3	1.36	63.760		
500.0	500.0	502.1	501.9	0.9	0.9	-177.87	-11.1	84.1	88.3	86.6	1.72	51.280		
600.0	599.9	602.1	601.8	1.0	1.1	-174.20	-16.9	82.0	91.6	89.5	2.10	43.700		
700.0	699.7	701.9	701.3	1.2	1.3	-169.94	-24.4	79.4	96.8	94.3	2.48	38.959		
800.0	799.4	801.4	800.3	1.4	1.5	-165.64	-33.0	76.4	104.1	101.3	2.88	36.131		
900.0	898.9	900.7	899.2	1.7	1.7	-162.15	-41.6	73.3	113.7	110.4	3.29	34.590		
1,000.0	998.3	999.9	998.0	1.9	2.0	-159.47	-50.3	70.3	125.2	121.5	3.70	33.870		
1,100.0	1,097.4	1,098.9	1,096.6	2.2	2.2	-157.50	-58.9	67.2	138.5	134.4	4.11	33.688 SF		
1,200.0	1,196.3	1,197.7	1,195.0	2.5	2.4	-156.13	-67.6	64.2	153.5	149.0	4.53	33.870		
1,300.0	1,294.9	1,296.3	1,293.1	2.8	2.7	-155.24	-76.2	61.1	170.2	165.2	4.96	34.309		
1,400.0	1,393.3	1,394.6	1,391.0	3.2	2.9	-154.71	-84.8	58.1	188.4	183.0	5.39	34.933		
1,500.0	1,491.4	1,492.8	1,488.7	3.5	3.1	-154.46	-93.3	55.1	207.5	201.7	5.84	35.559		
1,600.0	1,589.5	1,590.9	1,586.5	3.9	3.3	-154.25	-101.9	52.0	226.6	220.4	6.28	36.077		
1,700.0	1,687.7	1,689.1	1,684.2	4.2	3.6	-154.08	-110.5	49.0	245.8	239.0	6.73	36.514		
1,800.0	1,785.8	1,787.2	1,781.9	4.6	3.8	-153.93	-119.0	46.0	264.9	257.7	7.18	36.886		
1,900.0	1,883.9	1,885.4	1,879.7	5.0	4.0	-153.80	-127.6	43.0	284.0	276.4	7.63	37.207		
2,000.0	1,982.1	1,983.5	1,977.4	5.3	4.3	-153.69	-136.2	39.9	303.2	295.1	8.09	37.486		
2,100.0	2,080.2	2,081.7	2,075.1	5.7	4.5	-153.59	-144.7	36.9	322.3	313.8	8.54	37.730		
2,200.0	2,178.4	2,179.8	2,172.8	6.1	4.7	-153.51	-153.3	33.9	341.4	332.4	9.00	37.945		
2,300.0	2,276.5	2,278.0	2,270.6	6.5	5.0	-153.43	-161.9	30.9	360.6	351.1	9.45	38.137		
2,400.0	2,374.6	2,376.1	2,368.3	6.8	5.2	-153.36	-170.5	27.8	379.7	369.8	9.91	38.308		
2,500.0	2,472.8	2,474.3	2,466.0	7.2	5.4	-153.29	-179.0	24.8	398.8	388.5	10.37	38.461		
2,600.0	2,570.9	2,572.4	2,563.8	7.6	5.7	-153.23	-187.6	21.8	418.0	407.2	10.83	38.600		
2,700.0	2,669.1	2,670.6	2,661.5	8.0	5.9	-153.18	-196.2	18.8	437.1	425.8	11.29	38.726		
2,800.0	2,767.2	2,768.7	2,759.2	8.4	6.1	-153.13	-204.7	15.7	456.3	444.5	11.75	38.841		
2,900.0	2,865.3	2,866.9	2,856.9	8.7	6.4	-153.09	-213.3	12.7	475.4	463.2	12.21	38.946		
3,000.0	2,963.5	2,965.0	2,954.7	9.1	6.6	-153.05	-221.9	9.7	494.5	481.9	12.67	39.042		

Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3N-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	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		
266.3	266.3	267.3	267.3	0.4	0.4	90.00	0.0	89.5	89.5	88.6	0.89	101.043 CC		
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	89.5	89.5	88.5	1.00	89.210 ES		
400.0	400.0	400.7	400.7	0.7	0.7	175.27	-0.9	89.7	90.6	89.2	1.35	66.963		
500.0	500.0	500.2	500.2	0.9	0.9	176.96	-3.4	90.2	93.8	92.1	1.70	55.015		
600.0	599.9	599.6	599.4	1.0	1.0	179.53	-7.7	91.1	99.3	97.2	2.06	48.145		
700.0	699.7	698.5	698.2	1.2	1.2	-177.34	-13.6	92.2	107.2	104.8	2.43	44.194		
800.0	799.4	797.0	796.4	1.4	1.4	-173.95	-21.1	93.8	117.8	115.0	2.80	42.098		
900.0	898.9	895.6	894.5	1.7	1.7	-170.67	-30.0	95.5	131.1	127.9	3.18	41.263		
1,000.0	998.3	994.2	992.7	1.9	1.9	-168.07	-39.1	97.4	146.5	143.0	3.56	41.165 SF		
1,100.0	1,097.4	1,092.5	1,090.6	2.2	2.1	-166.09	-48.1	99.2	163.8	159.9	3.94	41.545		
1,200.0	1,196.3	1,190.6	1,188.3	2.5	2.3	-164.62	-57.2	101.0	182.9	178.6	4.33	42.248		
1,300.0	1,294.9	1,288.3	1,285.6	2.8	2.6	-163.55	-66.1	102.8	203.7	199.0	4.72	43.176		
1,400.0	1,393.3	1,385.7	1,382.5	3.2	2.8	-162.80	-75.1	104.6	226.2	221.1	5.11	44.262		
1,500.0	1,491.4	1,482.9	1,479.3	3.5	3.0	-162.30	-84.0	106.4	249.7	244.2	5.51	45.278		
1,600.0	1,589.5	1,580.1	1,576.1	3.9	3.2	-161.89	-93.0	108.1	273.1	267.2	5.92	46.133		
1,700.0	1,687.7	1,677.3	1,672.8	4.2	3.5	-161.55	-101.9	109.9	296.6	290.3	6.33	46.865		
1,800.0	1,785.8	1,774.5	1,769.6	4.6	3.7	-161.26	-110.8	111.7	320.1	313.4	6.74	47.496		
1,900.0	1,883.9	1,871.7	1,866.4	5.0	3.9	-161.01	-119.8	113.5	343.6	336.5	7.15	48.046		
2,000.0	1,982.1	1,968.9	1,963.1	5.3	4.2	-160.79	-128.7	115.3	367.1	359.5	7.56	48.528		
2,100.0	2,080.2	2,066.1	2,059.9	5.7	4.4	-160.59	-137.6	117.1	390.6	382.6	7.98	48.955		
2,200.0	2,178.4	2,163.3	2,156.6	6.1	4.6	-160.42	-146.6	118.9	414.1	405.7	8.39	49.334		
2,300.0	2,276.5	2,260.5	2,253.4	6.5	4.8	-160.27	-155.5	120.7	437.6	428.8	8.81	49.673		
2,400.0	2,374.6	2,357.7	2,350.2	6.8	5.1	-160.13	-164.4	122.5	461.1	451.9	9.23	49.979		
2,500.0	2,472.8	2,454.8	2,446.9	7.2	5.3	-160.01	-173.4	124.2	484.7	475.0	9.64	50.254		

Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3O-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	92.19	-3.6	95.1	95.2					
100.0	100.0	101.0	101.0	0.2	0.2	92.19	-3.6	95.1	95.2	94.9	0.31	311.665		
200.0	200.0	201.0	201.0	0.3	0.3	92.19	-3.6	95.1	95.2	94.5	0.65	145.444 CC		
249.6	249.6	250.6	250.6	0.4	0.4	92.19	-3.6	95.1	95.2	94.4	0.83	114.999		
300.0	300.0	300.0	300.0	0.5	0.5	92.29	-3.8	95.3	95.3	94.3	1.00	95.161 ES		
400.0	400.0	399.4	399.4	0.7	0.7	177.78	-5.2	96.3	97.3	96.0	1.35	72.040		
500.0	500.0	498.1	498.0	0.9	0.9	179.31	-7.9	98.3	102.2	100.5	1.70	60.068		
600.0	599.9	596.5	596.3	1.0	1.0	-178.67	-12.0	101.4	110.1	108.0	2.05	53.562		
700.0	699.7	694.4	693.9	1.2	1.2	-176.40	-17.4	105.5	121.0	118.6	2.41	50.175		
800.0	799.4	791.7	790.9	1.4	1.5	-174.09	-24.1	110.5	135.1	132.3	2.77	48.742		
900.0	898.9	888.2	886.9	1.7	1.7	-171.90	-32.0	116.4	152.3	149.2	3.13	48.619 SF		
1,000.0	998.3	986.2	984.2	1.9	1.9	-170.04	-40.7	122.9	172.0	168.5	3.50	49.185		
1,100.0	1,097.4	1,083.7	1,081.2	2.2	2.2	-168.66	-49.3	129.4	193.6	189.7	3.86	50.115		
1,200.0	1,196.3	1,180.9	1,177.8	2.5	2.4	-167.63	-57.9	135.9	216.8	212.6	4.23	51.292		
1,300.0	1,294.9	1,277.7	1,274.0	2.8	2.6	-166.89	-66.5	142.3	241.8	237.2	4.59	52.644		
1,400.0	1,393.3	1,374.1	1,369.8	3.2	2.9	-166.36	-75.0	148.7	268.4	263.5	4.96	54.121		
1,500.0	1,491.4	1,470.2	1,465.3	3.5	3.1	-166.01	-83.5	155.1	296.0	290.7	5.34	55.465		
1,600.0	1,589.5	1,566.3	1,560.8	3.9	3.4	-165.74	-92.0	161.4	323.6	317.9	5.72	56.612		
1,700.0	1,687.7	1,662.4	1,656.3	4.2	3.6	-165.50	-100.5	167.8	351.2	345.1	6.10	57.604		
1,800.0	1,785.8	1,758.5	1,751.9	4.6	3.9	-165.30	-109.0	174.2	378.8	372.3	6.48	58.472		
1,900.0	1,883.9	1,854.6	1,847.4	5.0	4.1	-165.13	-117.5	180.6	406.3	399.5	6.86	59.235		
2,000.0	1,982.1	1,950.7	1,942.9	5.3	4.4	-164.98	-126.0	186.9	433.9	426.7	7.24	59.912		
2,100.0	2,080.2	2,046.9	2,038.4	5.7	4.6	-164.84	-134.5	193.3	461.5	453.9	7.63	60.516		
2,200.0	2,178.4	2,143.0	2,133.9	6.1	4.9	-164.72	-143.0	199.7	489.2	481.1	8.01	61.058		

Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3P-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		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	100.7	100.7					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	100.7	100.7	100.4	0.31	329.757		
166.3	166.3	167.3	167.3	0.3	0.3	90.00	0.0	100.7	100.7	100.2	0.54	187.569 CC		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	100.7	100.7	100.1	0.65	153.891 ES		
300.0	300.0	300.0	300.0	0.5	0.5	90.30	-0.5	101.4	101.4	100.4	1.00	101.181		
400.0	400.0	398.1	398.1	0.7	0.7	175.86	-2.1	103.4	104.4	103.0	1.35	77.326		
500.0	500.0	496.4	496.3	0.9	0.9	177.27	-4.7	106.8	110.5	108.8	1.70	65.013		
600.0	599.9	594.3	594.0	1.0	1.1	178.99	-8.3	111.4	119.8	117.8	2.05	58.438		
700.0	699.7	691.6	691.0	1.2	1.3	-179.16	-12.9	117.4	132.4	130.0	2.40	55.131		
800.0	799.4	788.2	787.2	1.4	1.5	-177.34	-18.4	124.6	148.3	145.6	2.75	53.866 SF		
900.0	898.9	883.9	882.3	1.7	1.7	-175.64	-24.9	133.0	167.5	164.4	3.10	53.956		
1,000.0	998.3	978.6	976.2	1.9	2.0	-174.11	-32.3	142.5	190.0	186.5	3.45	54.986		
1,100.0	1,097.4	1,072.3	1,069.0	2.2	2.3	-172.77	-40.5	153.2	215.6	211.8	3.80	56.700		
1,200.0	1,196.3	1,168.2	1,163.8	2.5	2.5	-171.66	-49.4	164.6	243.7	239.6	4.16	58.644		
1,300.0	1,294.9	1,263.6	1,258.1	2.8	2.8	-170.82	-58.2	176.0	273.5	269.0	4.51	60.683		
1,400.0	1,393.3	1,358.5	1,351.9	3.2	3.1	-170.18	-66.9	187.3	305.0	300.1	4.86	62.783		
1,500.0	1,491.4	1,453.1	1,445.4	3.5	3.4	-169.74	-75.6	198.6	337.4	332.1	5.22	64.656		
1,600.0	1,589.5	1,547.7	1,538.9	3.9	3.7	-169.38	-84.3	209.8	369.8	364.2	5.58	66.268		
1,700.0	1,687.7	1,642.2	1,632.4	4.2	4.0	-169.08	-93.0	221.1	402.2	396.3	5.94	67.674		
1,800.0	1,785.8	1,736.8	1,725.9	4.6	4.3	-168.82	-101.7	232.4	434.7	428.4	6.31	68.912		
1,900.0	1,883.9	1,831.4	1,819.3	5.0	4.6	-168.60	-110.5	243.7	467.1	460.4	6.67	70.008		
2,000.0	1,982.1	1,926.0	1,912.8	5.3	4.9	-168.41	-119.2	254.9	499.6	492.5	7.04	70.986		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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 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	
3,100.0	3,061.6	3,034.6	3,034.6	9.5	5.3	-13.83	-29.1	-907.6	482.7	471.8	10.94	44.104		
3,200.0	3,159.8	3,132.8	3,132.8	9.9	5.5	-14.39	-29.1	-907.6	464.1	452.7	11.33	40.948		
3,300.0	3,257.9	3,230.9	3,230.9	10.3	5.6	-15.01	-29.1	-907.6	445.5	433.7	11.73	37.985		
3,400.0	3,356.0	3,329.0	3,329.0	10.6	5.8	-15.67	-29.1	-907.6	426.9	414.8	12.13	35.198		
3,500.0	3,454.2	3,427.2	3,427.2	11.0	6.0	-16.40	-29.1	-907.6	408.4	395.9	12.54	32.574		
3,600.0	3,552.3	3,525.3	3,525.3	11.4	6.2	-17.19	-29.1	-907.6	390.0	377.1	12.96	30.098		
3,700.0	3,650.4	3,623.4	3,623.4	11.8	6.3	-18.07	-29.1	-907.6	371.7	358.3	13.39	27.758		
3,800.0	3,748.6	3,721.6	3,721.6	12.2	6.5	-19.03	-29.1	-907.6	353.5	339.6	13.84	25.546		
3,900.0	3,846.7	3,819.7	3,819.7	12.5	6.7	-20.10	-29.1	-907.6	335.3	321.0	14.30	23.452		
4,000.0	3,944.9	3,917.9	3,917.9	12.9	6.8	-21.29	-29.1	-907.6	317.3	302.5	14.78	21.468		
4,100.0	4,043.0	4,016.0	4,016.0	13.3	7.0	-22.62	-29.1	-907.6	299.4	284.2	15.29	19.588		
4,200.0	4,141.1	4,114.1	4,114.1	13.7	7.2	-24.12	-29.1	-907.6	281.8	265.9	15.82	17.807		
4,300.0	4,239.3	4,212.3	4,212.3	14.1	7.4	-25.81	-29.1	-907.6	264.3	247.9	16.40	16.120		
4,400.0	4,337.4	4,310.4	4,310.4	14.5	7.5	-27.74	-29.1	-907.6	247.1	230.1	17.01	14.525		
4,500.0	4,435.6	4,408.6	4,408.6	14.8	7.7	-29.96	-29.1	-907.6	230.2	212.5	17.68	13.019		
4,600.0	4,533.7	4,506.7	4,506.7	15.2	7.9	-32.52	-29.1	-907.6	213.7	195.3	18.41	11.605		
4,700.0	4,631.8	4,604.8	4,604.8	15.6	8.0	-35.49	-29.1	-907.6	197.7	178.4	19.22	10.282		
4,800.0	4,730.0	4,703.0	4,703.0	16.0	8.2	-38.97	-29.1	-907.6	182.3	162.1	20.12	9.057		
4,900.0	4,828.1	4,801.1	4,801.1	16.4	8.4	-43.07	-29.1	-907.6	167.6	146.5	21.13	7.935		
4,997.2	4,923.5	4,876.0	4,876.0	16.7	8.5	-46.68	-29.1	-907.6	155.8	133.7	22.03	7.071 CC, ES		
5,000.0	4,926.2	4,876.0	4,876.0	16.7	8.5	-46.68	-29.1	-907.6	155.8	133.8	22.04	7.070 SF		
5,100.0	5,024.4	4,876.0	4,876.0	17.1	8.5	-46.68	-29.1	-907.6	186.6	164.3	22.34	8.354		
5,200.0	5,122.5	4,876.0	4,876.0	17.5	8.5	-46.68	-29.1	-907.6	255.7	233.1	22.64	11.293		
5,300.0	5,220.7	4,876.0	4,876.0	17.9	8.5	-46.68	-29.1	-907.6	340.5	317.6	22.94	14.840		
5,400.0	5,318.8	4,876.0	4,876.0	18.3	8.5	-46.68	-29.1	-907.6	431.8	408.6	23.25	18.576		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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	64.25	182.1	377.7	419.3					
100.0	100.0	100.0	100.0	0.2	0.2	64.25	182.1	377.7	419.3	419.0	0.33	1,286.417		
200.0	200.0	200.0	200.0	0.3	0.3	64.25	182.1	377.7	419.3	418.6	0.67	621.575		
300.0	300.0	300.0	300.0	0.5	0.5	64.25	182.1	377.7	419.3	418.3	1.02	409.789 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	148.98	182.1	377.7	420.1	418.7	1.37	306.175		
500.0	500.0	500.0	500.0	0.9	0.9	149.15	182.1	377.7	422.3	420.6	1.72	245.339		
600.0	599.9	599.9	599.9	1.0	1.0	149.43	182.1	377.7	426.1	424.0	2.07	205.623		
700.0	699.7	699.7	699.7	1.2	1.2	149.82	182.1	377.7	431.3	428.9	2.42	177.882		
800.0	799.4	799.4	799.4	1.4	1.4	150.30	182.1	377.7	438.1	435.4	2.78	157.597		
900.0	898.9	898.9	898.9	1.7	1.6	150.87	182.1	377.7	446.5	443.4	3.14	142.278		
1,000.0	998.3	998.3	998.3	1.9	1.7	151.51	182.1	377.7	456.4	452.9	3.50	130.440		
1,100.0	1,097.4	1,097.4	1,097.4	2.2	1.9	152.22	182.1	377.7	468.0	464.1	3.86	121.145		
1,200.0	1,196.3	1,196.3	1,196.3	2.5	2.1	152.98	182.1	377.7	481.1	476.9	4.23	113.771		
1,300.0	1,294.9	1,294.9	1,294.9	2.8	2.3	153.78	182.1	377.7	495.9	491.3	4.60	107.886 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis					
13,900.0	7,606.0	7,637.0	7,637.0	115.4	13.3	-90.00	-6,670.3	-1,058.1	448.4	322.0	126.38	3.548				
14,000.0	7,606.0	7,637.0	7,637.0	117.1	13.3	-90.00	-6,670.3	-1,058.1	370.9	242.8	128.12	2.895				
14,100.0	7,606.0	7,637.0	7,637.0	118.8	13.3	-90.00	-6,670.3	-1,058.1	306.8	176.9	129.86	2.362				
14,200.0	7,606.0	7,637.0	7,637.0	120.5	13.3	-90.00	-6,670.3	-1,058.1	265.8	134.2	131.61	2.020				
14,267.3	7,606.0	7,637.0	7,637.0	121.7	13.3	-90.00	-6,670.3	-1,058.1	257.2	124.4	132.78	1.937 CC				
14,270.5	7,606.0	7,637.0	7,637.0	121.7	13.3	-90.00	-6,670.3	-1,058.1	257.2	124.4	132.84	1.936 ES, SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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		
2,900.0	2,865.3	2,983.4	2,925.5	8.7	10.4	-52.45	-310.4	-730.6	487.7	470.5	17.24	28.292		
3,000.0	2,963.5	3,076.1	3,014.7	9.1	10.8	-51.24	-287.3	-741.1	465.8	447.8	17.98	25.903		
3,100.0	3,061.6	3,167.2	3,102.2	9.5	11.3	-49.83	-264.9	-752.8	445.3	426.6	18.72	23.793		
3,200.0	3,159.8	3,260.0	3,191.5	9.9	11.8	-48.34	-243.2	-765.3	426.5	407.1	19.44	21.943		
3,300.0	3,257.9	3,361.8	3,290.0	10.3	12.2	-46.77	-220.6	-778.2	408.1	387.9	20.16	20.240		
3,400.0	3,356.0	3,456.0	3,381.1	10.6	12.7	-45.25	-199.7	-789.4	389.4	368.6	20.84	18.688		
3,500.0	3,454.2	3,551.7	3,473.9	11.0	13.1	-43.66	-179.7	-801.4	372.3	350.9	21.50	17.322		
3,600.0	3,552.3	3,651.4	3,570.8	11.4	13.6	-41.97	-159.2	-813.1	355.3	333.1	22.14	16.049		
3,700.0	3,650.4	3,748.9	3,665.7	11.8	14.0	-40.25	-139.8	-824.5	338.7	316.0	22.74	14.894		
3,800.0	3,748.6	3,851.0	3,765.0	12.2	14.4	-38.26	-118.9	-835.5	321.5	298.2	23.32	13.786		
3,900.0	3,846.7	3,946.8	3,858.4	12.5	14.8	-36.31	-99.7	-845.4	304.5	280.6	23.84	12.771		
4,000.0	3,944.9	4,043.1	3,952.1	12.9	15.3	-34.07	-80.5	-856.1	288.6	264.3	24.33	11.862		
4,100.0	4,043.0	4,140.2	4,046.2	13.3	15.7	-31.19	-59.9	-868.0	273.7	249.0	24.74	11.062		
4,200.0	4,141.1	4,239.6	4,142.3	13.7	16.2	-27.74	-37.9	-880.5	259.5	234.5	25.05	10.362		
4,300.0	4,239.3	4,338.2	4,238.4	14.1	16.6	-24.63	-18.7	-891.2	245.6	220.3	25.29	9.712		
4,400.0	4,337.4	4,434.6	4,332.5	14.5	17.0	-21.44	-0.7	-902.0	233.0	207.5	25.46	9.151		
4,500.0	4,435.6	4,530.8	4,426.2	14.8	17.4	-17.69	17.9	-913.5	221.8	196.3	25.53	8.688		
4,600.0	4,533.7	4,628.2	4,520.4	15.2	17.9	-12.87	39.0	-926.5	212.8	187.3	25.44	8.365		
4,700.0	4,631.8	4,729.6	4,618.0	15.6	18.4	-6.78	63.5	-939.2	204.7	179.6	25.16	8.138		
4,800.0	4,730.0	4,830.8	4,716.0	16.0	18.9	-0.65	86.4	-949.7	196.8	171.9	24.89	7.907		
4,900.0	4,828.1	4,926.0	4,808.0	16.4	19.4	5.77	108.8	-959.1	190.9	166.2	24.66	7.739		
4,978.7	4,905.4	4,999.6	4,878.8	16.7	19.7	11.30	127.5	-967.0	189.2	164.7	24.53	7.715 CC, ES		
5,000.0	4,926.2	5,019.3	4,897.6	16.7	19.8	12.81	132.6	-969.3	189.4	164.9	24.50	7.727		
5,100.0	5,024.4	5,118.0	4,992.3	17.1	20.4	20.24	158.2	-980.8	192.0	167.6	24.45	7.854		
5,200.0	5,122.5	5,217.0	5,087.7	17.5	20.8	27.11	182.2	-991.4	196.1	171.6	24.52	7.997		
5,300.0	5,220.7	5,313.3	5,180.7	17.9	21.3	33.11	204.7	-1,002.8	203.2	178.5	24.70	8.226		
5,400.0	5,318.8	5,411.2	5,275.3	18.3	21.8	38.33	226.3	-1,015.3	212.2	187.3	25.00	8.491		
5,500.0	5,416.9	5,510.8	5,371.8	18.7	22.2	43.07	247.9	-1,028.3	222.8	197.4	25.41	8.769		
5,600.0	5,515.1	5,616.6	5,474.7	19.0	22.7	47.66	268.9	-1,040.5	232.3	206.3	25.96	8.947		
5,700.0	5,613.2	5,717.1	5,573.0	19.4	23.1	51.65	287.0	-1,050.9	240.8	214.1	26.64	9.037		
5,800.0	5,711.4	5,819.3	5,673.3	19.8	23.5	55.50	304.3	-1,060.5	249.0	221.5	27.48	9.059		
5,900.0	5,809.5	5,923.8	5,776.1	20.2	23.8	59.34	320.9	-1,069.0	256.6	228.1	28.49	9.008		
6,000.0	5,907.6	6,030.6	5,881.6	20.6	24.2	63.05	335.6	-1,076.6	262.9	233.3	29.64	8.870		
6,100.0	6,005.8	6,132.3	5,982.4	21.0	24.4	66.46	347.0	-1,082.7	267.4	236.5	30.86	8.663		
6,200.0	6,103.9	6,240.4	6,089.9	21.3	24.7	69.99	357.3	-1,088.6	271.0	238.8	32.22	8.412		
6,300.0	6,202.1	6,346.6	6,195.8	21.7	24.8	73.63	363.8	-1,092.2	271.7	238.1	33.67	8.071		
6,400.0	6,300.2	6,451.1	6,300.2	22.1	25.0	77.31	368.2	-1,095.0	271.5	236.4	35.16	7.723		
6,500.0	6,398.3	6,552.0	6,401.0	22.5	25.1	81.05	370.7	-1,096.6	270.5	233.8	36.67	7.377		
6,592.0	6,488.6	6,643.6	6,492.7	22.8	25.2	84.51	372.6	-1,097.8	270.2	232.2	38.04	7.103		
6,600.0	6,496.5	6,651.6	6,500.6	22.9	25.2	84.82	372.7	-1,097.9	270.2	232.1	38.16	7.081		
6,700.0	6,594.6	6,750.5	6,599.5	23.2	25.3	88.59	374.4	-1,099.0	270.8	231.2	39.61	6.836		
6,800.0	6,692.7	6,850.4	6,699.4	23.6	25.4	92.43	375.7	-1,099.9	272.2	231.2	40.99	6.639		
6,900.0	6,790.9	6,948.2	6,797.2	24.0	25.5	96.15	376.8	-1,100.8	274.6	232.3	42.27	6.497		
7,000.0	6,889.0	7,047.5	6,896.5	24.4	25.6	99.84	377.8	-1,101.6	278.1	234.7	43.44	6.403		
7,100.0	6,987.2	7,146.6	6,995.5	24.8	25.7	103.47	378.4	-1,102.4	282.4	238.0	44.48	6.350 SF		
7,200.0	7,085.3	7,244.9	7,093.9	25.2	25.8	133.04	378.9	-1,103.1	290.0	245.1	44.91	6.458		
7,300.0	7,182.0	7,341.7	7,190.7	25.5	25.9	166.70	379.4	-1,104.1	312.3	268.4	43.94	7.108		
7,400.0	7,274.6	7,433.3	7,282.3	25.8	26.0	-178.21	380.1	-1,105.0	350.0	308.1	41.89	8.355		
7,500.0	7,360.1	7,517.3	7,366.3	26.2	26.1	-170.08	380.9	-1,105.8	401.8	362.8	38.98	10.306		
7,600.0	7,436.0	7,590.9	7,439.8	26.5	26.2	-164.32	381.9	-1,106.4	466.4	430.9	35.54	13.125		

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 3B-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 3B-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		
8,400.0	7,606.0	7,668.7	7,618.2	31.1	18.4	-90.56	-1,225.5	-1,088.3	479.6	443.6	35.99	13.328		
8,500.0	7,606.0	7,668.2	7,617.7	32.0	18.4	-90.44	-1,225.5	-1,088.3	394.4	357.0	37.36	10.556		
8,600.0	7,606.0	7,667.7	7,617.2	33.0	18.4	-90.31	-1,225.5	-1,088.3	317.9	279.1	38.79	8.194		
8,700.0	7,606.0	7,667.2	7,616.8	34.1	18.4	-90.19	-1,225.5	-1,088.3	257.9	217.7	40.26	6.407		
8,800.0	7,606.0	7,666.7	7,616.3	35.2	18.4	-90.07	-1,225.5	-1,088.3	228.1	186.3	41.76	5.462		
8,822.5	7,606.0	7,666.6	7,616.2	35.4	18.4	-90.04	-1,225.5	-1,088.3	227.0	184.9	42.11	5.390 CC, ES, SF		
8,900.0	7,606.0	7,666.2	7,615.8	36.3	18.4	-89.94	-1,225.5	-1,088.3	239.8	196.5	43.30	5.539		
9,000.0	7,606.0	7,665.7	7,615.3	37.5	18.4	-89.82	-1,225.5	-1,088.3	288.1	243.3	44.85	6.424		
9,100.0	7,606.0	7,665.2	7,614.8	38.8	18.4	-89.70	-1,225.5	-1,088.3	358.5	312.0	46.43	7.721		
9,200.0	7,606.0	7,664.8	7,614.3	40.1	18.4	-89.57	-1,225.5	-1,088.3	440.4	392.4	48.03	9.171		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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		
12,700.0	7,606.0	7,662.0	7,662.0	95.0	13.4	-90.00	-5,408.4	-937.4	485.8	380.3	105.55	4.603		
12,800.0	7,606.0	7,662.0	7,662.0	96.7	13.4	-90.00	-5,408.4	-937.4	430.1	322.8	107.28	4.009		
12,900.0	7,606.0	7,662.0	7,662.0	98.4	13.4	-90.00	-5,408.4	-937.4	392.3	283.3	109.02	3.598		
13,000.0	7,606.0	7,662.0	7,662.0	100.1	13.4	-90.00	-5,408.4	-937.4	377.9	267.1	110.76	3.412		
13,005.4	7,606.0	7,662.0	7,662.0	100.2	13.4	-90.00	-5,408.4	-937.4	377.8	267.0	110.85	3.409 CC, ES, SF		
13,100.0	7,606.0	7,662.0	7,662.0	101.8	13.4	-90.00	-5,408.4	-937.4	389.5	277.0	112.50	3.462		
13,200.0	7,606.0	7,662.0	7,662.0	103.5	13.4	-90.00	-5,408.4	-937.4	425.0	310.8	114.23	3.720		
13,300.0	7,606.0	7,662.0	7,662.0	105.2	13.4	-90.00	-5,408.4	-937.4	479.1	363.1	115.97	4.131		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3B-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 3B-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

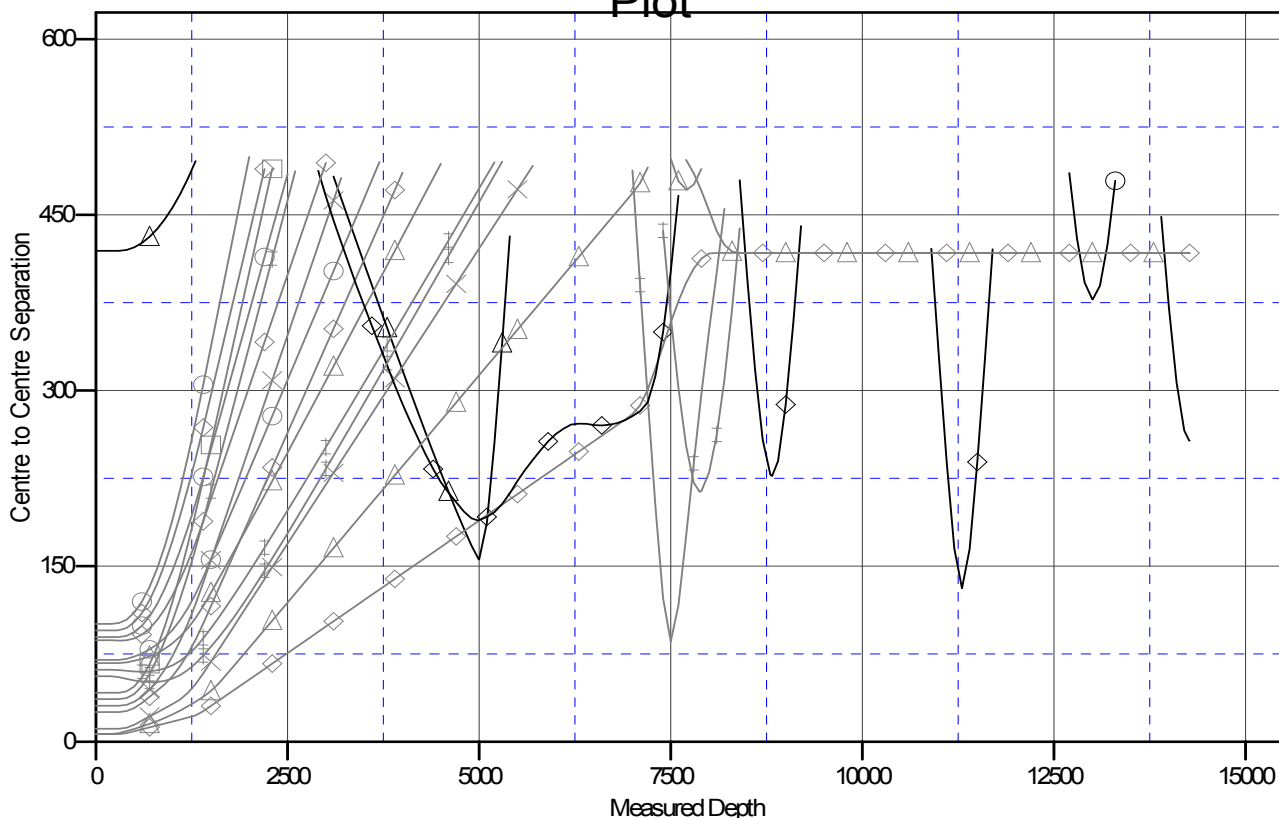
Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

Ladder Plot



LEGEND

AS TEA WELL, NOSURVEYS V0	File 3K-32H-K268, Hz, Plan #1 V0	RAY NELSON 13-32 (EXISTING), EN
1 V0	File 3J-32H-K268, Hz, Plan #1 V0	SCHRINER 12-5 (EXISTING), KERR-
NG), ENCANA WELL, SURVEYS V0	NELSON 4 (EXISTING), TEXAS TEA WELL, NOSURVEYS V0	File 3M-32H-K268, Hz, Plan #1 V0
1 V0	BROWN 5-5 (EXISTING), ENCANA WELL, NOSURVEYS V0	File 3A-32H-K268, Hz, Plan #1 V0
1 V0	File 3O-32H-K268, Hz, Plan #1 V0	File 3I-32H-K268, Hz, Plan #1 V0
1 V0	PAQUETTE 13-5 (EXISTING), KERR-MCGEE WELL, NOSURVEYS V0	File 3H-32H-K268, Hz, Plan #1 V0
1 V0	File 3G-32H-K268, Hz, Plan #1 V0	
1 V0	File 3P-32H-K268, Hz, Plan #1 V0	