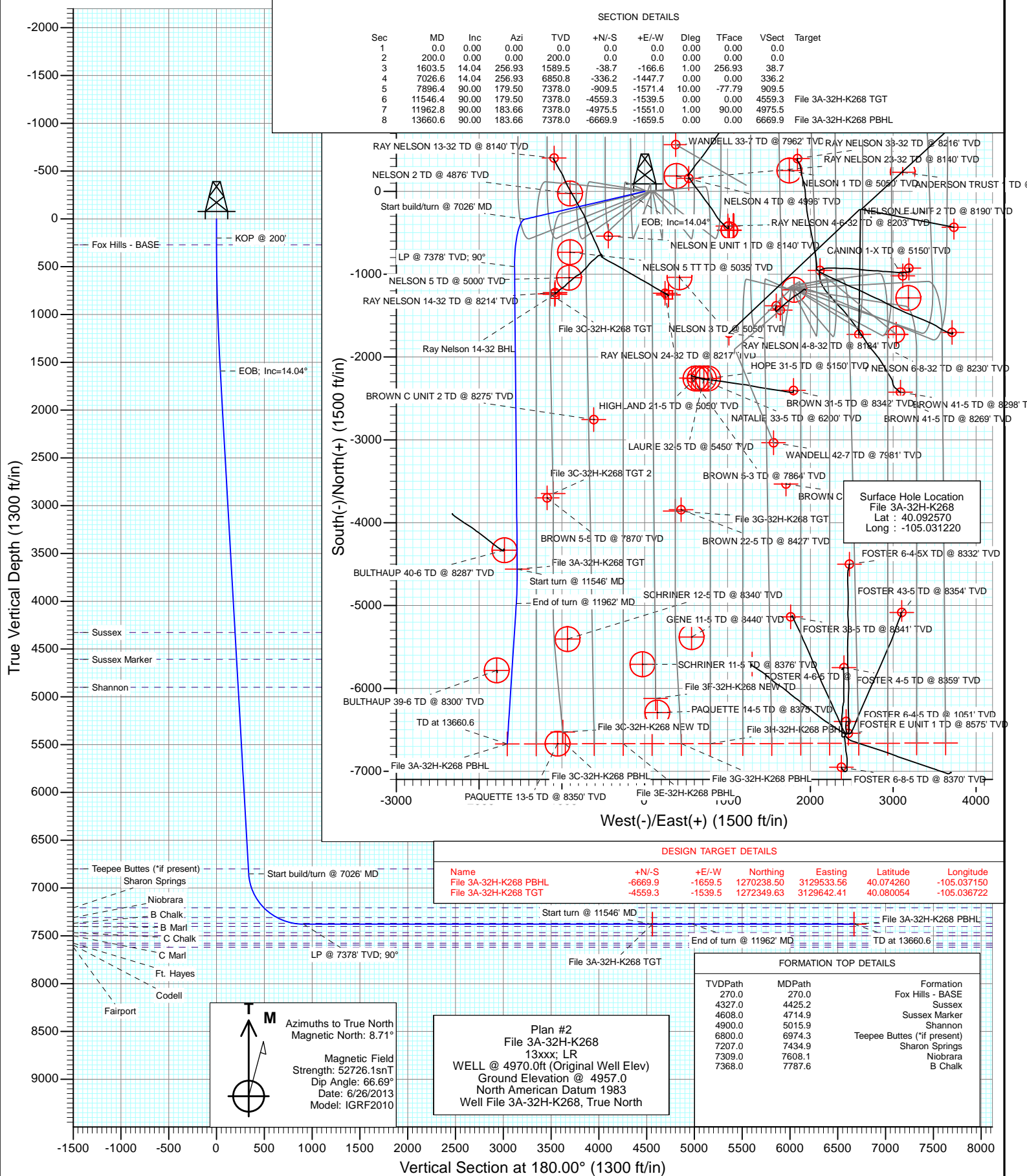




Project: DJ Wattenberg
Site: S32-T2N-R68W (File/Hwy 52)
Well: File 3A-32H-K268
Wellbore: Hz
Design: Plan #2



Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: S32-T2N-R68W (File/Hwy 52)
Well: File 3A-32H-K268
Wellbore: Hz
Design: Plan #2

Local Co-ordinate Reference: Well File 3A-32H-K268
TVD Reference: WELL @ 4970.0ft (Original Well Elev)
MD Reference: WELL @ 4970.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project DJ Wattenberg

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: Colorado Northern Zone

System Datum: Mean Sea Level

Site S32-T2N-R68W (File/Hwy 52)

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 3A-32H-K268

Well Position	+N/-S	0.0 ft	Northing:	1,276,917.04 ft	Latitude:	40.092570
	+E/-W	0.0 ft	Easting:	3,131,157.79 ft	Longitude:	-105.031220
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 #2

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,603.5	14.04	256.93	1,589.5	-38.7	-166.6	1.00	1.00	0.00	256.93	
7,026.6	14.04	256.93	6,850.8	-336.2	-1,447.7	0.00	0.00	0.00	0.00	
7,896.4	90.00	179.50	7,378.0	-909.5	-1,571.4	10.00	8.73	-8.90	-77.79	
11,546.4	90.00	179.50	7,378.0	-4,559.3	-1,539.5	0.00	0.00	0.00	0.00	File 3A-32H-K268 TG
11,962.8	90.00	183.66	7,378.0	-4,975.5	-1,551.0	1.00	0.00	1.00	90.00	
13,660.6	90.00	183.66	7,378.0	-6,669.9	-1,659.5	0.00	0.00	0.00	0.00	File 3A-32H-K268 PB

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3A-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/Hwy 52)	North Reference:	True
Well:	File 3A-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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	KOP @ 200'
270.0	0.70	256.93	270.0	-0.1	-0.4	0.1	1.00	1.00	Fox Hills - BASE
300.0	1.00	256.93	300.0	-0.2	-0.9	0.2	1.00	1.00	
400.0	2.00	256.93	400.0	-0.8	-3.4	0.8	1.00	1.00	
500.0	3.00	256.93	499.9	-1.8	-7.6	1.8	1.00	1.00	
600.0	4.00	256.93	599.7	-3.2	-13.6	3.2	1.00	1.00	
700.0	5.00	256.93	699.4	-4.9	-21.2	4.9	1.00	1.00	
800.0	6.00	256.93	798.9	-7.1	-30.6	7.1	1.00	1.00	
900.0	7.00	256.93	898.3	-9.7	-41.6	9.7	1.00	1.00	
1,000.0	8.00	256.93	997.4	-12.6	-54.3	12.6	1.00	1.00	
1,100.0	9.00	256.93	1,096.3	-16.0	-68.7	16.0	1.00	1.00	
1,200.0	10.00	256.93	1,194.9	-19.7	-84.8	19.7	1.00	1.00	
1,300.0	11.00	256.93	1,293.3	-23.8	-102.5	23.8	1.00	1.00	
1,400.0	12.00	256.93	1,391.2	-28.3	-122.0	28.3	1.00	1.00	
1,500.0	13.00	256.93	1,488.9	-33.2	-143.0	33.2	1.00	1.00	
1,600.0	14.00	256.93	1,586.1	-38.5	-165.8	38.5	1.00	1.00	
1,603.5	14.04	256.93	1,589.5	-38.7	-166.6	38.7	1.00	1.00	EOB; Inc=14.04°
1,700.0	14.04	256.93	1,683.1	-44.0	-189.4	44.0	0.00	0.00	
1,800.0	14.04	256.93	1,780.1	-49.5	-213.0	49.5	0.00	0.00	
1,900.0	14.04	256.93	1,877.2	-55.0	-236.6	55.0	0.00	0.00	
2,000.0	14.04	256.93	1,974.2	-60.4	-260.3	60.4	0.00	0.00	
2,100.0	14.04	256.93	2,071.2	-65.9	-283.9	65.9	0.00	0.00	
2,200.0	14.04	256.93	2,168.2	-71.4	-307.5	71.4	0.00	0.00	
2,300.0	14.04	256.93	2,265.2	-76.9	-331.1	76.9	0.00	0.00	
2,400.0	14.04	256.93	2,362.2	-82.4	-354.8	82.4	0.00	0.00	
2,500.0	14.04	256.93	2,459.2	-87.9	-378.4	87.9	0.00	0.00	
2,600.0	14.04	256.93	2,556.3	-93.4	-402.0	93.4	0.00	0.00	
2,700.0	14.04	256.93	2,653.3	-98.8	-425.6	98.8	0.00	0.00	
2,800.0	14.04	256.93	2,750.3	-104.3	-449.3	104.3	0.00	0.00	
2,900.0	14.04	256.93	2,847.3	-109.8	-472.9	109.8	0.00	0.00	
3,000.0	14.04	256.93	2,944.3	-115.3	-496.5	115.3	0.00	0.00	
3,100.0	14.04	256.93	3,041.3	-120.8	-520.1	120.8	0.00	0.00	
3,200.0	14.04	256.93	3,138.3	-126.3	-543.7	126.3	0.00	0.00	
3,300.0	14.04	256.93	3,235.4	-131.8	-567.4	131.8	0.00	0.00	
3,400.0	14.04	256.93	3,332.4	-137.3	-591.0	137.3	0.00	0.00	
3,500.0	14.04	256.93	3,429.4	-142.7	-614.6	142.7	0.00	0.00	
3,600.0	14.04	256.93	3,526.4	-148.2	-638.2	148.2	0.00	0.00	
3,700.0	14.04	256.93	3,623.4	-153.7	-661.9	153.7	0.00	0.00	
3,800.0	14.04	256.93	3,720.4	-159.2	-685.5	159.2	0.00	0.00	
3,900.0	14.04	256.93	3,817.4	-164.7	-709.1	164.7	0.00	0.00	
4,000.0	14.04	256.93	3,914.5	-170.2	-732.7	170.2	0.00	0.00	
4,100.0	14.04	256.93	4,011.5	-175.7	-756.4	175.7	0.00	0.00	
4,200.0	14.04	256.93	4,108.5	-181.1	-780.0	181.1	0.00	0.00	
4,300.0	14.04	256.93	4,205.5	-186.6	-803.6	186.6	0.00	0.00	
4,400.0	14.04	256.93	4,302.5	-192.1	-827.2	192.1	0.00	0.00	
4,425.2	14.04	256.93	4,327.0	-193.5	-833.2	193.5	0.00	0.00	Sussex
4,500.0	14.04	256.93	4,399.5	-197.6	-850.8	197.6	0.00	0.00	
4,600.0	14.04	256.93	4,496.6	-203.1	-874.5	203.1	0.00	0.00	
4,700.0	14.04	256.93	4,593.6	-208.6	-898.1	208.6	0.00	0.00	
4,714.9	14.04	256.93	4,608.0	-209.4	-901.6	209.4	0.00	0.00	Sussex Marker

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3A-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/Hwy 52)	North Reference:	True
Well:	File 3A-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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	14.04	256.93	4,690.6	-214.1	-921.7	214.1	0.00	0.00	
4,900.0	14.04	256.93	4,787.6	-219.5	-945.3	219.5	0.00	0.00	
5,000.0	14.04	256.93	4,884.6	-225.0	-969.0	225.0	0.00	0.00	
5,015.9	14.04	256.93	4,900.0	-225.9	-972.7	225.9	0.00	0.00	Shannon
5,100.0	14.04	256.93	4,981.6	-230.5	-992.6	230.5	0.00	0.00	
5,200.0	14.04	256.93	5,078.6	-236.0	-1,016.2	236.0	0.00	0.00	
5,300.0	14.04	256.93	5,175.7	-241.5	-1,039.8	241.5	0.00	0.00	
5,400.0	14.04	256.93	5,272.7	-247.0	-1,063.5	247.0	0.00	0.00	
5,500.0	14.04	256.93	5,369.7	-252.5	-1,087.1	252.5	0.00	0.00	
5,600.0	14.04	256.93	5,466.7	-257.9	-1,110.7	257.9	0.00	0.00	
5,700.0	14.04	256.93	5,563.7	-263.4	-1,134.3	263.4	0.00	0.00	
5,800.0	14.04	256.93	5,660.7	-268.9	-1,157.9	268.9	0.00	0.00	
5,900.0	14.04	256.93	5,757.7	-274.4	-1,181.6	274.4	0.00	0.00	
6,000.0	14.04	256.93	5,854.8	-279.9	-1,205.2	279.9	0.00	0.00	
6,100.0	14.04	256.93	5,951.8	-285.4	-1,228.8	285.4	0.00	0.00	
6,200.0	14.04	256.93	6,048.8	-290.9	-1,252.4	290.9	0.00	0.00	
6,300.0	14.04	256.93	6,145.8	-296.4	-1,276.1	296.4	0.00	0.00	
6,400.0	14.04	256.93	6,242.8	-301.8	-1,299.7	301.8	0.00	0.00	
6,500.0	14.04	256.93	6,339.8	-307.3	-1,323.3	307.3	0.00	0.00	
6,600.0	14.04	256.93	6,436.8	-312.8	-1,346.9	312.8	0.00	0.00	
6,700.0	14.04	256.93	6,533.9	-318.3	-1,370.5	318.3	0.00	0.00	
6,800.0	14.04	256.93	6,630.9	-323.8	-1,394.2	323.8	0.00	0.00	
6,900.0	14.04	256.93	6,727.9	-329.3	-1,417.8	329.3	0.00	0.00	
6,974.3	14.04	256.93	6,800.0	-333.3	-1,435.4	333.3	0.00	0.00	Teepee Buttes (*if present)
7,000.0	14.04	256.93	6,824.9	-334.8	-1,441.4	334.8	0.00	0.00	
7,026.6	14.04	256.93	6,850.8	-336.2	-1,447.7	336.2	0.00	0.00	Start build/turn @ 7026' MD
7,100.0	17.13	231.85	6,921.5	-344.9	-1,464.9	344.9	10.00	4.21	
7,200.0	24.38	212.06	7,015.0	-371.6	-1,487.5	371.6	10.00	7.26	
7,300.0	33.04	201.53	7,102.7	-414.5	-1,508.5	414.5	10.00	8.66	
7,400.0	42.25	195.08	7,181.8	-472.5	-1,527.3	472.5	10.00	9.20	
7,434.9	45.53	193.36	7,207.0	-495.9	-1,533.2	495.9	10.00	9.40	Sharon Springs
7,500.0	51.70	190.61	7,250.0	-543.7	-1,543.3	543.7	10.00	9.49	
7,600.0	61.29	187.18	7,305.2	-626.0	-1,556.1	626.0	10.00	9.59	
7,608.1	62.06	186.93	7,309.0	-633.0	-1,556.9	633.0	10.00	9.63	Niobrara
7,700.0	70.94	184.33	7,345.6	-716.9	-1,565.1	716.9	10.00	9.66	
7,787.6	79.44	182.11	7,368.0	-801.3	-1,569.9	801.3	10.00	9.69	B Chalk
7,800.0	80.64	181.81	7,370.1	-813.5	-1,570.3	813.5	10.00	9.71	
7,896.4	90.00	179.50	7,378.0	-909.5	-1,571.4	909.5	10.00	9.71	LP @ 7378' TVD; 90°
7,900.0	90.00	179.50	7,378.0	-913.1	-1,571.3	913.1	0.00	0.00	
8,000.0	90.00	179.50	7,378.0	-1,013.1	-1,570.4	1,013.1	0.00	0.00	
8,100.0	90.00	179.50	7,378.0	-1,113.1	-1,569.6	1,113.1	0.00	0.00	
8,200.0	90.00	179.50	7,378.0	-1,213.1	-1,568.7	1,213.1	0.00	0.00	
8,300.0	90.00	179.50	7,378.0	-1,313.1	-1,567.8	1,313.1	0.00	0.00	
8,400.0	90.00	179.50	7,378.0	-1,413.1	-1,567.0	1,413.1	0.00	0.00	
8,500.0	90.00	179.50	7,378.0	-1,513.1	-1,566.1	1,513.1	0.00	0.00	
8,600.0	90.00	179.50	7,378.0	-1,613.1	-1,565.2	1,613.1	0.00	0.00	
8,700.0	90.00	179.50	7,378.0	-1,713.1	-1,564.3	1,713.1	0.00	0.00	
8,800.0	90.00	179.50	7,378.0	-1,813.1	-1,563.5	1,813.1	0.00	0.00	
8,900.0	90.00	179.50	7,378.0	-1,913.1	-1,562.6	1,913.1	0.00	0.00	
9,000.0	90.00	179.50	7,378.0	-2,013.1	-1,561.7	2,013.1	0.00	0.00	
9,100.0	90.00	179.50	7,378.0	-2,113.0	-1,560.8	2,113.0	0.00	0.00	
9,200.0	90.00	179.50	7,378.0	-2,213.0	-1,560.0	2,213.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3A-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/Hwy 52)	North Reference:	True
Well:	File 3A-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	179.50	7,378.0	-2,313.0	-1,559.1	2,313.0	0.00	0.00	
9,400.0	90.00	179.50	7,378.0	-2,413.0	-1,558.2	2,413.0	0.00	0.00	
9,500.0	90.00	179.50	7,378.0	-2,513.0	-1,557.4	2,513.0	0.00	0.00	
9,600.0	90.00	179.50	7,378.0	-2,613.0	-1,556.5	2,613.0	0.00	0.00	
9,700.0	90.00	179.50	7,378.0	-2,713.0	-1,555.6	2,713.0	0.00	0.00	
9,800.0	90.00	179.50	7,378.0	-2,813.0	-1,554.7	2,813.0	0.00	0.00	
9,900.0	90.00	179.50	7,378.0	-2,913.0	-1,553.9	2,913.0	0.00	0.00	
10,000.0	90.00	179.50	7,378.0	-3,013.0	-1,553.0	3,013.0	0.00	0.00	
10,100.0	90.00	179.50	7,378.0	-3,113.0	-1,552.1	3,113.0	0.00	0.00	
10,200.0	90.00	179.50	7,378.0	-3,213.0	-1,551.2	3,213.0	0.00	0.00	
10,300.0	90.00	179.50	7,378.0	-3,313.0	-1,550.4	3,313.0	0.00	0.00	
10,400.0	90.00	179.50	7,378.0	-3,413.0	-1,549.5	3,413.0	0.00	0.00	
10,500.0	90.00	179.50	7,378.0	-3,513.0	-1,548.6	3,513.0	0.00	0.00	
10,600.0	90.00	179.50	7,378.0	-3,613.0	-1,547.8	3,613.0	0.00	0.00	
10,700.0	90.00	179.50	7,378.0	-3,713.0	-1,546.9	3,713.0	0.00	0.00	
10,800.0	90.00	179.50	7,378.0	-3,813.0	-1,546.0	3,813.0	0.00	0.00	
10,900.0	90.00	179.50	7,378.0	-3,913.0	-1,545.1	3,913.0	0.00	0.00	
11,000.0	90.00	179.50	7,378.0	-4,013.0	-1,544.3	4,013.0	0.00	0.00	
11,100.0	90.00	179.50	7,378.0	-4,113.0	-1,543.4	4,113.0	0.00	0.00	
11,200.0	90.00	179.50	7,378.0	-4,213.0	-1,542.5	4,213.0	0.00	0.00	
11,300.0	90.00	179.50	7,378.0	-4,313.0	-1,541.7	4,313.0	0.00	0.00	
11,400.0	90.00	179.50	7,378.0	-4,413.0	-1,540.8	4,413.0	0.00	0.00	
11,500.0	90.00	179.50	7,378.0	-4,513.0	-1,539.9	4,513.0	0.00	0.00	
11,546.4	90.00	179.50	7,378.0	-4,559.3	-1,539.5	4,559.3	0.00	0.00	Start turn @ 11546' MD - File 3A-32H-K268 TG
11,600.0	90.00	180.04	7,378.0	-4,613.0	-1,539.3	4,613.0	1.00	0.00	
11,700.0	90.00	181.04	7,378.0	-4,712.9	-1,540.2	4,712.9	1.00	0.00	
11,800.0	90.00	182.04	7,378.0	-4,812.9	-1,542.9	4,812.9	1.00	0.00	
11,900.0	90.00	183.04	7,378.0	-4,912.8	-1,547.3	4,912.8	1.00	0.00	
11,962.8	90.00	183.66	7,378.0	-4,975.5	-1,551.0	4,975.5	1.00	0.00	End of turn @ 11962' MD
12,000.0	90.00	183.66	7,378.0	-5,012.6	-1,553.4	5,012.6	0.00	0.00	
12,100.0	90.00	183.66	7,378.0	-5,112.4	-1,559.8	5,112.4	0.00	0.00	
12,200.0	90.00	183.66	7,378.0	-5,212.2	-1,566.2	5,212.2	0.00	0.00	
12,300.0	90.00	183.66	7,378.0	-5,312.0	-1,572.5	5,312.0	0.00	0.00	
12,400.0	90.00	183.66	7,378.0	-5,411.8	-1,578.9	5,411.8	0.00	0.00	
12,500.0	90.00	183.66	7,378.0	-5,511.6	-1,585.3	5,511.6	0.00	0.00	
12,600.0	90.00	183.66	7,378.0	-5,611.4	-1,591.7	5,611.4	0.00	0.00	
12,700.0	90.00	183.66	7,378.0	-5,711.2	-1,598.1	5,711.2	0.00	0.00	
12,800.0	90.00	183.66	7,378.0	-5,811.0	-1,604.5	5,811.0	0.00	0.00	
12,900.0	90.00	183.66	7,378.0	-5,910.8	-1,610.9	5,910.8	0.00	0.00	
13,000.0	90.00	183.66	7,378.0	-6,010.6	-1,617.3	6,010.6	0.00	0.00	
13,100.0	90.00	183.66	7,378.0	-6,110.4	-1,623.7	6,110.4	0.00	0.00	
13,200.0	90.00	183.66	7,378.0	-6,210.2	-1,630.1	6,210.2	0.00	0.00	
13,300.0	90.00	183.66	7,378.0	-6,310.0	-1,636.5	6,310.0	0.00	0.00	
13,400.0	90.00	183.66	7,378.0	-6,409.8	-1,642.8	6,409.8	0.00	0.00	
13,500.0	90.00	183.66	7,378.0	-6,509.6	-1,649.2	6,509.6	0.00	0.00	
13,600.0	90.00	183.66	7,378.0	-6,609.4	-1,655.6	6,609.4	0.00	0.00	
13,660.6	90.00	183.66	7,378.0	-6,669.9	-1,659.5	6,669.9	0.00	0.00	TD at 13660.6 - File 3A-32H-K268 PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3A-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/Hwy 52)	North Reference:	True
Well:	File 3A-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
File 3A-32H-K268 PBHL	0.00	0.00	7,378.0	-6,669.9	-1,659.5	1,270,238.50	3,129,533.56	40.074260	-105.037150
- plan hits target center									
- Point									
File 3A-32H-K268 TGT	0.00	0.00	7,378.0	-4,559.3	-1,539.5	1,272,349.63	3,129,642.41	40.080054	-105.036722
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
270.0	270.0	Fox Hills - BASE				
4,425.2	4,327.0	Sussex				
4,714.9	4,608.0	Sussex Marker				
5,015.9	4,900.0	Shannon				
6,974.3	6,800.0	Teepee Buttes (*if present)				
7,434.9	7,207.0	Sharon Springs				
7,608.1	7,309.0	Niobrara				
7,787.6	7,368.0	B Chalk				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
1,603.5	1,589.5	-38.7	-166.6	EOB; Inc=14.04°
7,026.6	6,850.8	-336.2	-1,447.7	Start build/turn @ 7026' MD
7,896.4	7,378.0	-909.5	-1,571.4	LP @ 7378' TVD; 90°
11,546.4	7,378.0	-4,559.3	-1,539.5	Start turn @ 11546' MD
11,962.8	7,378.0	-4,975.5	-1,551.0	End of turn @ 11962' MD
13,660.6	7,378.0	-6,669.9	-1,659.5	TD at 13660.6

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File/Hwy 52)

File 3A-32H-K268

Hz

Plan #2

Anticollision Report

09 July, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
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	7/9/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,546.4	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52)						
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 31-32 (EXISTING) - ENCANA WELL - PLAN						Out of range
ANDERSON 32-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 32-7 (EXISTING) - KPK WELL - NO SURVE						Out of range
ANDERSON 41-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 42-32 (EXISTING) - BASIN EXP WELL - NO						Out of range
ANDERSON 4-2-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 6-4-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON TRUST 1 (EXISTING) - KPK WELL - NO S						Out of range
ANDERSON TRUST 1 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 32-2 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST 32-8 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C 1 (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 - ENCANA						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE	10,689.8	7,427.0	368.4	288.0	4.579	CC
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE	10,700.0	7,427.0	368.5	287.9	4.571	ES, SF
BROWN C UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
BULTHAUP 39-6 (EXISTING) - KERR-MCGEE WELL - S	12,801.3	7,539.1	177.7	70.6	1.660	CC, ES, SF
BULTHAUP 40-6 (EXISTING) - KERR-MCGEE WELL - S	11,305.2	7,477.9	159.5	66.3	1.712	CC, ES, SF
CANINO 1-X (EXISTING) - ENCANA WELL - NO SURVE						Out of range
CANINO 2 (EXISTING) - HUGHES CW WELL - NO SUR						Out of range
CANINO 3 (EXISTING) - HUGHES CW WELL - NO SUR						Out of range
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3B-32H-K268 - Hz - Plan #1	200.0	200.0	6.7	6.0	10.229	CC, ES
File 3B-32H-K268 - Hz - Plan #1	13,660.6	14,270.5	417.6	213.5	2.046	SF
File 3C-32H-K268 - Hz - Plan #1	200.0	200.0	11.2	10.5	17.144	CC, ES
File 3C-32H-K268 - Hz - Plan #1	12,200.0	12,168.9	463.7	273.5	2.438	SF
File 3D-32H-K268 - Hz - Plan #1	200.0	200.0	17.2	16.5	26.314	CC, ES
File 3D-32H-K268 - Hz - Plan #1	500.0	499.9	25.0	23.3	14.735	SF
File 3E-32H-K268 - Hz - Plan #1	200.0	201.0	30.8	30.1	47.021	CC, ES
File 3E-32H-K268 - Hz - Plan #1	800.0	801.7	58.7	56.0	21.388	SF
File 3F-32H-K268 - Hz - Plan #1	200.0	201.0	36.6	35.9	55.847	CC, ES
File 3F-32H-K268 - Hz - Plan #1	700.0	700.4	58.2	55.8	24.317	SF
File 3G-32H-K268 - Hz - Plan #1	200.0	201.0	42.0	41.3	64.119	CC, ES
File 3G-32H-K268 - Hz - Plan #1	600.0	600.0	56.5	54.5	27.601	SF
File 3H-32H-K268 - Hz - Plan #1	200.0	201.0	47.7	47.0	72.881	CC, ES
File 3H-32H-K268 - Hz - Plan #1	600.0	597.9	67.0	64.9	32.768	SF
File 3I-32H-K268 - Hz - Plan #1	227.3	228.6	61.5	60.8	82.015	CC
File 3I-32H-K268 - Hz - Plan #1	700.0	706.0	62.3	59.9	25.653	ES
File 3I-32H-K268 - Hz - Plan #1	7,400.0	7,426.1	120.4	78.8	2.892	SF
File 3J-32H-K268 - Hz - Plan #1	200.0	201.0	67.2	66.6	102.742	CC, ES
File 3J-32H-K268 - Hz - Plan #1	6,900.0	6,911.6	430.3	384.8	9.440	SF
File 3K-32H-K268 - Hz - Plan #1	200.0	201.0	72.7	72.1	111.140	CC, ES
File 3K-32H-K268 - Hz - Plan #1	4,800.0	4,789.6	498.8	474.6	20.588	SF
File 3L-32H-K268 - Hz - Plan #1	200.0	201.0	75.6	75.0	115.549	CC, ES

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S32-T2N-R68W (File/Hwy 52)						
File 3L-32H-K268 - Hz - Plan #1	1,400.0	1,406.5	146.6	141.4	28.363	SF
File 3M-32H-K268 - Hz - Plan #1	200.6	201.6	92.3	91.7	140.580	CC, ES
File 3M-32H-K268 - Hz - Plan #1	1,300.0	1,299.1	172.6	167.5	33.888	SF
File 3N-32H-K268 - Hz - Plan #1	200.0	201.0	95.2	94.5	145.444	CC, ES
File 3N-32H-K268 - Hz - Plan #1	1,100.0	1,093.4	175.9	171.9	43.696	SF
File 3O-32H-K268 - Hz - Plan #1	200.0	201.0	100.7	100.1	153.887	CC, ES
File 3O-32H-K268 - Hz - Plan #1	900.0	887.5	166.0	162.8	52.380	SF
File 3P-32H-K268 - Hz - Plan #1	166.3	167.3	106.4	105.8	198.106	CC
File 3P-32H-K268 - Hz - Plan #1	200.0	201.0	106.4	105.7	162.536	ES
File 3P-32H-K268 - Hz - Plan #1	900.0	883.0	181.3	178.2	57.778	SF
FOSTER 33-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 43-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 4-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5X (EXISTING) - ENCANA WELL - SURVE						Out of range
FOSTER 6-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 8-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER E UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
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
Hwy 52 4A-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4B-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4C-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4D-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4E-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4F-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4G-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4H-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4I-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4J-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4K-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4L-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4M-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4N-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4O-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4P-32H-O268 - Hz - Plan #1						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 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	4,544.9	4,416.1	179.2	153.6	7.007	CC, ES
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	4,600.0	4,469.6	179.7	153.8	6.941	SF
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	200.0	200.0	425.9	425.3	631.393	CC, ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	1,100.0	1,096.3	495.0	491.2	130.089	SF
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						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	3,172.8	3,102.0	426.1	409.2	25.234	CC

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 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (ft)	Between Ellipses (ft)		
S32-T2N-R68W (File/Hwy 52)						
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	3,200.0	3,128.3	426.2	409.1	24.984	ES
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	3,900.0	3,807.4	461.2	440.5	22.333	SF
NELSON E UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU	3,928.0	3,915.5	139.1	117.9	6.559	CC, ES
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU	4,000.0	3,983.8	140.7	119.0	6.493	SF
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU	8,213.5	7,441.8	486.9	445.8	11.856	CC, ES
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU	8,300.0	7,441.7	494.5	452.1	11.659	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 (EXISTING) - ENCANA WELL - EN						Out of range
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN						Out of range
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN						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 4-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
Ray Nelson 7-8-32 - DD - Plan #1						Out of range
RAY NELSON 8-4-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-6-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU						Out of range
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,378.0	7,427.0	7,427.0	68.5	13.0	-90.00	-3,699.6	-1,178.6	468.7	393.3	75.46	6.212	
10,500.0	7,378.0	7,427.0	7,427.0	70.1	13.0	-90.00	-3,699.6	-1,178.6	414.4	337.2	77.18	5.370	
10,600.0	7,378.0	7,427.0	7,427.0	71.7	13.0	-90.00	-3,699.6	-1,178.6	379.2	300.3	78.90	4.806	
10,689.8	7,378.0	7,427.0	7,427.0	73.1	13.0	-90.00	-3,699.6	-1,178.6	368.4	288.0	80.45	4.579 CC	
10,700.0	7,378.0	7,427.0	7,427.0	73.3	13.0	-90.00	-3,699.6	-1,178.6	368.5	287.9	80.63	4.571 ES, SF	
10,800.0	7,378.0	7,427.0	7,427.0	74.8	13.0	-90.00	-3,699.6	-1,178.6	384.5	302.2	82.36	4.669	
10,900.0	7,378.0	7,427.0	7,427.0	76.4	13.0	-90.00	-3,699.6	-1,178.6	424.2	340.1	84.08	5.044	
11,000.0	7,378.0	7,427.0	7,427.0	78.1	13.0	-90.00	-3,699.6	-1,178.6	481.6	395.8	85.81	5.612	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - BULTHAUP 39-6 (EXISTING) - KERR-MCGEE WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 6960-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
12,400.0	7,378.0	7,546.8	7,447.7	101.3	1.1	92.47	-5,800.8	-1,781.9	438.8	338.8	99.95	4.390	
12,500.0	7,378.0	7,544.9	7,445.7	103.0	1.1	91.85	-5,800.8	-1,781.9	349.7	248.0	101.73	3.438	
12,600.0	7,378.0	7,543.0	7,443.8	104.8	1.1	91.23	-5,800.8	-1,781.9	268.4	164.9	103.51	2.594	
12,700.0	7,378.0	7,541.0	7,441.9	106.5	1.1	90.61	-5,800.9	-1,781.9	204.5	99.2	105.27	1.943	
12,800.0	7,378.0	7,539.1	7,440.0	108.2	1.1	89.99	-5,800.9	-1,781.9	177.7	70.7	107.02	1.660	
12,801.3	7,378.0	7,539.1	7,439.9	108.2	1.1	89.98	-5,800.9	-1,781.9	177.7	70.6	107.04	1.660 CC, ES, SF	
12,900.0	7,378.0	7,537.2	7,438.0	109.9	1.1	89.36	-5,800.9	-1,781.9	203.3	94.5	108.76	1.869	
13,000.0	7,378.0	7,535.3	7,436.1	111.6	1.1	88.74	-5,801.0	-1,781.9	266.6	156.1	110.48	2.413	
13,100.0	7,378.0	7,533.3	7,434.2	113.3	1.1	88.12	-5,801.0	-1,781.9	347.5	235.3	112.20	3.097	
13,200.0	7,378.0	7,531.4	7,432.2	115.0	1.1	87.50	-5,801.1	-1,781.9	436.5	322.6	113.90	3.832	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - BULTHAUP 40-6 (EXISTING) - KERR-MCGEE WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 40-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	7,378.0	7,482.4	7,409.6	76.4	18.6	90.59	-4,319.5	-1,701.2	435.4	349.2	86.20	5.051		
11,000.0	7,378.0	7,481.3	7,408.5	78.1	18.6	90.20	-4,319.5	-1,701.1	344.3	256.4	87.93	3.916		
11,100.0	7,378.0	7,480.2	7,407.4	79.7	18.6	89.80	-4,319.5	-1,701.1	259.9	170.2	89.65	2.898		
11,200.0	7,378.0	7,479.1	7,406.4	81.3	18.6	89.41	-4,319.5	-1,701.1	191.0	99.7	91.38	2.091		
11,300.0	7,378.0	7,478.0	7,405.3	82.9	18.6	89.02	-4,319.5	-1,701.1	159.6	66.5	93.10	1.714		
11,305.2	7,378.0	7,477.9	7,405.2	83.0	18.6	88.99	-4,319.5	-1,701.1	159.5	66.3	93.19	1.712 CC, ES, SF		
11,400.0	7,378.0	7,476.9	7,404.1	84.6	18.6	88.60	-4,319.5	-1,701.1	185.6	90.7	94.81	1.957		
11,500.0	7,378.0	7,475.7	7,402.9	86.2	18.6	88.17	-4,319.5	-1,701.0	251.8	155.3	96.53	2.609		
11,600.0	7,378.0	7,474.4	7,401.7	87.8	18.6	87.77	-4,319.6	-1,701.0	335.1	236.6	98.43	3.404		
11,700.0	7,378.0	7,473.2	7,400.4	89.5	18.6	87.42	-4,319.6	-1,701.0	425.0	324.5	100.49	4.229		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	56.93	3.6	5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	56.93	3.6	5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	56.93	3.6	5.6	6.7	6.0	0.65	10.229	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	162.29	3.6	5.6	7.5	6.5	1.00	7.489		
400.0	400.0	400.1	400.1	0.7	0.7	164.02	3.7	4.7	9.3	7.9	1.35	6.878		
500.0	499.9	500.2	500.2	0.9	0.9	162.60	4.0	2.1	11.3	9.6	1.70	6.654		
600.0	599.7	600.4	600.2	1.1	1.0	159.53	4.4	-2.2	13.6	11.6	2.06	6.619		
700.0	699.4	700.5	700.2	1.3	1.2	155.66	4.9	-8.3	16.3	13.8	2.43	6.698		
800.0	798.9	800.7	800.1	1.5	1.4	151.54	5.7	-16.2	19.3	16.5	2.82	6.843		
900.0	898.3	900.9	899.8	1.8	1.7	147.46	6.6	-25.7	22.7	19.5	3.24	7.023		
1,000.0	997.4	1,001.0	999.3	2.0	1.9	143.61	7.6	-37.1	26.7	23.0	3.70	7.214		
1,100.0	1,096.3	1,101.2	1,098.6	2.3	2.2	140.06	8.8	-50.1	31.1	26.9	4.20	7.399		
1,200.0	1,194.9	1,201.4	1,197.6	2.7	2.5	136.84	10.2	-64.9	36.0	31.3	4.76	7.570		
1,300.0	1,293.3	1,301.5	1,296.4	3.0	2.8	133.95	11.8	-81.3	41.5	36.2	5.38	7.721		
1,400.0	1,391.2	1,401.6	1,394.8	3.4	3.2	131.37	13.5	-99.5	47.6	41.5	6.06	7.852		
1,500.0	1,488.9	1,501.4	1,492.8	3.8	3.5	129.83	15.2	-118.6	54.4	47.7	6.75	8.056		
1,600.0	1,586.1	1,601.1	1,590.6	4.3	3.9	129.87	17.0	-137.7	62.4	55.0	7.44	8.390		
1,700.0	1,683.1	1,700.7	1,688.4	4.7	4.2	130.52	18.8	-156.7	71.0	62.9	8.10	8.757		
1,800.0	1,780.1	1,800.3	1,786.1	5.1	4.6	131.03	20.6	-175.8	79.6	70.8	8.78	9.064		
1,900.0	1,877.2	1,900.0	1,883.9	5.6	5.0	131.45	22.3	-194.8	88.2	78.7	9.45	9.324		
2,000.0	1,974.2	1,999.6	1,981.7	6.1	5.3	131.79	24.1	-213.9	96.8	86.6	10.13	9.547		
2,100.0	2,071.2	2,099.2	2,079.4	6.5	5.7	132.07	25.9	-232.9	105.4	94.5	10.82	9.740		
2,200.0	2,168.2	2,198.8	2,177.2	7.0	6.1	132.32	27.7	-252.0	114.0	102.5	11.50	9.908		
2,300.0	2,265.2	2,298.5	2,275.0	7.4	6.5	132.52	29.5	-271.0	122.6	110.4	12.19	10.056		
2,400.0	2,362.2	2,398.1	2,372.8	7.9	6.8	132.70	31.2	-290.1	131.2	118.3	12.88	10.187		
2,500.0	2,459.2	2,497.7	2,470.5	8.4	7.2	132.86	33.0	-309.1	139.8	126.2	13.57	10.304		
2,600.0	2,556.3	2,597.3	2,568.3	8.8	7.6	133.00	34.8	-328.2	148.4	134.1	14.26	10.409		
2,700.0	2,653.3	2,697.0	2,666.1	9.3	8.0	133.13	36.6	-347.2	157.0	142.1	14.95	10.503		
2,800.0	2,750.3	2,796.6	2,763.9	9.7	8.3	133.24	38.3	-366.3	165.6	150.0	15.64	10.589		
2,900.0	2,847.3	2,896.2	2,861.6	10.2	8.7	133.34	40.1	-385.3	174.2	157.9	16.33	10.667		
3,000.0	2,944.3	2,995.9	2,959.4	10.7	9.1	133.43	41.9	-404.4	182.8	165.8	17.03	10.739		
3,100.0	3,041.3	3,095.5	3,057.2	11.1	9.5	133.51	43.7	-423.4	191.5	173.7	17.72	10.804		
3,200.0	3,138.3	3,195.1	3,155.0	11.6	9.9	133.59	45.5	-442.5	200.1	181.7	18.42	10.864		
3,300.0	3,235.4	3,294.7	3,252.7	12.1	10.2	133.66	47.2	-461.5	208.7	189.6	19.11	10.920		
3,400.0	3,332.4	3,394.4	3,350.5	12.5	10.6	133.72	49.0	-480.6	217.3	197.5	19.81	10.972		
3,500.0	3,429.4	3,494.0	3,448.3	13.0	11.0	133.78	50.8	-499.6	225.9	205.4	20.50	11.020		
3,600.0	3,526.4	3,593.6	3,546.1	13.5	11.4	133.84	52.6	-518.7	234.5	213.3	21.20	11.064		
3,700.0	3,623.4	3,693.3	3,643.8	13.9	11.8	133.89	54.3	-537.7	243.1	221.2	21.89	11.106		
3,800.0	3,720.4	3,792.9	3,741.6	14.4	12.1	133.94	56.1	-556.8	251.8	229.2	22.59	11.145		
3,900.0	3,817.4	3,892.5	3,839.4	14.9	12.5	133.98	57.9	-575.8	260.4	237.1	23.29	11.182		
4,000.0	3,914.5	3,992.1	3,937.1	15.3	12.9	134.02	59.7	-594.9	269.0	245.0	23.98	11.216		
4,100.0	4,011.5	4,091.8	4,034.9	15.8	13.3	134.06	61.5	-613.9	277.6	252.9	24.68	11.248		
4,200.0	4,108.5	4,191.4	4,132.7	16.3	13.7	134.10	63.2	-633.0	286.2	260.8	25.38	11.279		
4,300.0	4,205.5	4,291.0	4,230.5	16.7	14.0	134.13	65.0	-652.0	294.8	268.8	26.07	11.308		
4,400.0	4,302.5	4,390.7	4,328.2	17.2	14.4	134.16	66.8	-671.1	303.4	276.7	26.77	11.335		
4,500.0	4,399.5	4,490.3	4,426.0	17.7	14.8	134.19	68.6	-690.1	312.1	284.6	27.47	11.361		
4,600.0	4,496.6	4,589.9	4,523.8	18.1	15.2	134.22	70.3	-709.2	320.7	292.5	28.17	11.385		
4,700.0	4,593.6	4,689.5	4,621.6	18.6	15.6	134.25	72.1	-728.2	329.3	300.4	28.86	11.408		
4,800.0	4,690.6	4,789.2	4,719.3	19.1	15.9	134.28	73.9	-747.3	337.9	308.3	29.56	11.430		
4,900.0	4,787.6	4,888.8	4,817.1	19.5	16.3	134.30	75.7	-766.3	346.5	316.3	30.26	11.451		
5,000.0	4,884.6	4,988.4	4,914.9	20.0	16.7	134.33	77.5	-785.4	355.1	324.2	30.96	11.471		
5,100.0	4,981.6	5,088.0	5,012.7	20.5	17.1	134.35	79.2	-804.4	363.8	332.1	31.66	11.491		

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 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,078.6	5,187.7	5,110.4	20.9	17.5	134.37	81.0	-823.5	372.4	340.0	32.35	11.509		
5,300.0	5,175.7	5,287.3	5,208.2	21.4	17.8	134.39	82.8	-842.5	381.0	347.9	33.05	11.526		
5,400.0	5,272.7	5,386.9	5,306.0	21.9	18.2	134.41	84.6	-861.6	389.6	355.9	33.75	11.543		
5,500.0	5,369.7	5,486.6	5,403.8	22.3	18.6	134.43	86.3	-880.6	398.2	363.8	34.45	11.559		
5,600.0	5,466.7	5,586.2	5,501.5	22.8	19.0	134.45	88.1	-899.7	406.8	371.7	35.15	11.575		
5,700.0	5,563.7	5,685.8	5,599.3	23.3	19.4	134.46	89.9	-918.7	415.5	379.6	35.85	11.589		
5,800.0	5,660.7	5,785.4	5,697.1	23.7	19.7	134.48	91.7	-937.8	424.1	387.5	36.55	11.604		
5,900.0	5,757.7	5,885.1	5,794.8	24.2	20.1	134.50	93.5	-956.8	432.7	395.4	37.24	11.617		
6,000.0	5,854.8	5,984.7	5,892.6	24.7	20.5	134.51	95.2	-975.9	441.3	403.4	37.94	11.630		
6,100.0	5,951.8	6,084.3	5,990.4	25.1	20.9	134.53	97.0	-994.9	449.9	411.3	38.64	11.643		
6,200.0	6,048.8	6,184.0	6,088.2	25.6	21.3	134.54	98.8	-1,014.0	458.5	419.2	39.34	11.655		
6,300.0	6,145.8	6,283.6	6,185.9	26.1	21.7	134.55	100.6	-1,033.0	467.1	427.1	40.04	11.667		
6,400.0	6,242.8	6,383.2	6,283.7	26.5	22.0	134.57	102.3	-1,052.1	475.8	435.0	40.74	11.678		
6,500.0	6,339.8	6,482.8	6,381.5	27.0	22.4	134.58	104.1	-1,071.1	484.4	442.9	41.44	11.689		
6,600.0	6,436.8	6,582.5	6,479.3	27.5	22.8	134.59	105.9	-1,090.2	493.0	450.9	42.14	11.700		
7,400.0	7,181.8	8,073.1	7,606.0	31.6	28.7	-147.28	-472.5	-1,309.7	476.7	448.5	28.25	16.873		
7,500.0	7,250.0	8,144.3	7,606.0	32.3	29.1	-143.12	-543.7	-1,309.7	425.8	399.6	26.22	16.237		
7,600.0	7,305.2	8,226.6	7,606.0	33.0	29.7	-138.74	-626.0	-1,309.7	388.8	363.1	25.70	15.133		
7,700.0	7,345.6	8,317.5	7,606.0	33.8	30.4	-134.74	-716.9	-1,309.7	364.8	337.0	27.73	13.153		
7,800.0	7,370.1	8,414.2	7,606.0	34.6	31.3	-131.94	-813.5	-1,309.7	351.5	319.8	31.66	11.103		
7,900.0	7,378.0	8,513.7	7,606.0	35.5	32.2	-131.07	-913.1	-1,309.7	347.0	310.8	36.19	9.589		
8,000.0	7,378.0	8,613.7	7,606.0	36.4	33.2	-131.17	-1,013.1	-1,309.7	346.4	308.1	38.25	9.056		
8,100.0	7,378.0	8,713.7	7,606.0	37.3	34.2	-131.26	-1,113.1	-1,309.7	345.7	305.3	40.37	8.564		
8,200.0	7,378.0	8,813.7	7,606.0	38.3	35.3	-131.36	-1,213.1	-1,309.7	345.1	302.5	42.54	8.112		
8,300.0	7,378.0	8,913.7	7,606.0	39.4	36.5	-131.45	-1,313.1	-1,309.7	344.4	299.7	44.75	7.697		
8,400.0	7,378.0	9,013.7	7,606.0	40.5	37.7	-131.55	-1,413.1	-1,309.7	343.8	296.8	46.99	7.316		
8,500.0	7,378.0	9,113.7	7,606.0	41.6	38.9	-131.65	-1,513.1	-1,309.7	343.1	293.8	49.26	6.966		
8,600.0	7,378.0	9,213.7	7,606.0	42.8	40.2	-131.74	-1,613.1	-1,309.7	342.5	290.9	51.55	6.643		
8,700.0	7,378.0	9,313.7	7,606.0	44.0	41.6	-131.84	-1,713.1	-1,309.7	341.8	287.9	53.86	6.346		
8,800.0	7,378.0	9,413.7	7,606.0	45.3	42.9	-131.94	-1,813.1	-1,309.7	341.2	285.0	56.18	6.072		
8,900.0	7,378.0	9,513.7	7,606.0	46.6	44.3	-132.04	-1,913.1	-1,309.7	340.5	282.0	58.52	5.819		
9,000.0	7,378.0	9,613.7	7,606.0	47.9	45.7	-132.14	-2,013.1	-1,309.7	339.9	279.0	60.86	5.584		
9,100.0	7,378.0	9,713.7	7,606.0	49.3	47.1	-132.23	-2,113.0	-1,309.7	339.2	276.0	63.22	5.366		
9,200.0	7,378.0	9,813.7	7,606.0	50.6	48.6	-132.33	-2,213.0	-1,309.7	338.6	273.0	65.58	5.163		
9,300.0	7,378.0	9,913.7	7,606.0	52.0	50.1	-132.43	-2,313.0	-1,309.7	337.9	270.0	67.94	4.974		
9,400.0	7,378.0	10,013.7	7,606.0	53.4	51.5	-132.53	-2,413.0	-1,309.7	337.3	267.0	70.31	4.797		
9,500.0	7,378.0	10,113.7	7,606.0	54.9	53.1	-132.63	-2,513.0	-1,309.7	336.6	264.0	72.67	4.632		
9,600.0	7,378.0	10,213.7	7,606.0	56.3	54.6	-132.73	-2,613.0	-1,309.7	336.0	261.0	75.04	4.478		
9,700.0	7,378.0	10,313.7	7,606.0	57.8	56.1	-132.84	-2,713.0	-1,309.7	335.3	257.9	77.41	4.332		
9,800.0	7,378.0	10,413.7	7,606.0	59.3	57.7	-132.94	-2,813.0	-1,309.7	334.7	254.9	79.77	4.196		
9,900.0	7,378.0	10,513.7	7,606.0	60.8	59.2	-133.04	-2,913.0	-1,309.7	334.1	251.9	82.13	4.067		
10,000.0	7,378.0	10,613.7	7,606.0	62.3	60.8	-133.14	-3,013.0	-1,309.7	333.4	248.9	84.49	3.946		
10,100.0	7,378.0	10,713.7	7,606.0	63.9	62.4	-133.24	-3,113.0	-1,309.7	332.8	245.9	86.85	3.832		
10,200.0	7,378.0	10,813.6	7,606.0	65.4	64.0	-133.35	-3,213.0	-1,309.7	332.2	243.0	89.20	3.724		
10,300.0	7,378.0	10,913.6	7,606.0	67.0	65.6	-133.45	-3,313.0	-1,309.7	331.5	240.0	91.55	3.621		
10,400.0	7,378.0	11,013.6	7,606.0	68.5	67.2	-133.56	-3,413.0	-1,309.7	330.9	237.0	93.89	3.524		
10,500.0	7,378.0	11,113.6	7,606.0	70.1	68.8	-133.66	-3,513.0	-1,309.7	330.3	234.0	96.23	3.432		
10,600.0	7,378.0	11,213.6	7,606.0	71.7	70.4	-133.76	-3,613.0	-1,309.7	329.6	231.1	98.56	3.344		
10,700.0	7,378.0	11,313.6	7,606.0	73.3	72.0	-133.87	-3,713.0	-1,309.7	329.0	228.1	100.89	3.261		
10,800.0	7,378.0	11,413.6	7,606.0	74.8	73.7	-133.97	-3,813.0	-1,309.7	328.4	225.2	103.21	3.182		
10,900.0	7,378.0	11,513.6	7,606.0	76.4	75.3	-134.08	-3,913.0	-1,309.7	327.7	222.2	105.52	3.106		
11,000.0	7,378.0	11,613.6	7,606.0	78.1	76.9	-134.19	-4,013.0	-1,309.7	327.1	219.3	107.83	3.034		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
11,100.0	7,378.0	11,713.6	7,606.0	79.7	78.6	-134.29	-4,113.0	-1,309.7	326.5	216.4	110.12	2.965		
11,200.0	7,378.0	11,813.6	7,606.0	81.3	80.2	-134.40	-4,213.0	-1,309.7	325.9	213.5	112.41	2.899		
11,300.0	7,378.0	11,913.6	7,606.0	82.9	81.9	-134.51	-4,313.0	-1,309.7	325.2	210.6	114.70	2.836		
11,400.0	7,378.0	12,013.6	7,606.0	84.6	83.6	-134.62	-4,413.0	-1,309.7	324.6	207.7	116.97	2.775		
11,500.0	7,378.0	12,113.6	7,606.0	86.2	85.2	-134.72	-4,513.0	-1,309.7	324.0	204.8	119.24	2.717		
11,597.1	7,378.0	12,210.7	7,606.0	87.8	86.8	-134.77	-4,610.1	-1,309.7	323.7	201.9	121.84	2.657		
11,600.0	7,378.0	12,213.6	7,606.0	87.8	86.9	-134.80	-4,613.0	-1,309.7	323.6	201.7	121.87	2.655		
11,700.0	7,378.0	12,313.6	7,606.0	89.5	88.6	-134.69	-4,712.9	-1,309.7	324.2	199.1	125.10	2.592		
11,800.0	7,378.0	12,413.6	7,606.0	91.2	90.2	-134.37	-4,812.9	-1,309.7	326.1	197.4	128.73	2.533		
11,900.0	7,378.0	12,513.5	7,606.0	92.9	91.9	-133.86	-4,912.8	-1,309.7	329.3	196.6	132.76	2.481		
12,000.0	7,378.0	12,613.3	7,606.0	94.5	93.6	-133.15	-5,012.6	-1,309.7	333.7	196.7	137.01	2.436		
12,100.0	7,378.0	12,713.1	7,606.0	96.2	95.3	-132.42	-5,112.4	-1,309.7	338.4	197.3	141.09	2.399		
12,200.0	7,378.0	12,812.9	7,606.0	97.9	96.9	-131.70	-5,212.2	-1,309.7	343.2	198.0	145.17	2.364		
12,300.0	7,378.0	12,912.7	7,606.0	99.6	98.6	-131.00	-5,312.0	-1,309.7	348.0	198.7	149.24	2.332		
12,400.0	7,378.0	13,012.5	7,606.0	101.3	100.3	-130.32	-5,411.8	-1,309.7	352.8	199.5	153.31	2.301		
12,500.0	7,378.0	13,112.2	7,606.0	103.0	102.0	-129.65	-5,511.6	-1,309.7	357.7	200.3	157.38	2.273		
12,600.0	7,378.0	13,212.0	7,606.0	104.8	103.7	-129.01	-5,611.4	-1,309.7	362.7	201.2	161.44	2.246		
12,700.0	7,378.0	13,311.8	7,606.0	106.5	105.4	-128.38	-5,711.2	-1,309.7	367.7	202.2	165.49	2.222		
12,800.0	7,378.0	13,411.6	7,606.0	108.2	107.1	-127.77	-5,811.0	-1,309.7	372.7	203.1	169.54	2.198		
12,900.0	7,378.0	13,511.4	7,606.0	109.9	108.8	-127.18	-5,910.8	-1,309.7	377.8	204.2	173.58	2.176		
13,000.0	7,378.0	13,611.2	7,606.0	111.6	110.5	-126.60	-6,010.6	-1,309.7	382.9	205.3	177.62	2.156		
13,100.0	7,378.0	13,711.0	7,606.0	113.3	112.2	-126.04	-6,110.4	-1,309.7	388.0	206.4	181.64	2.136		
13,200.0	7,378.0	13,810.8	7,606.0	115.0	113.9	-125.49	-6,210.2	-1,309.7	393.2	207.6	185.66	2.118		
13,300.0	7,378.0	13,910.6	7,606.0	116.7	115.6	-124.96	-6,310.0	-1,309.7	398.4	208.8	189.67	2.101		
13,400.0	7,378.0	14,010.4	7,606.0	118.5	117.3	-124.44	-6,409.8	-1,309.7	403.7	210.0	193.68	2.084		
13,500.0	7,378.0	14,110.2	7,606.0	120.2	119.0	-123.94	-6,509.6	-1,309.7	409.0	211.3	197.67	2.069		
13,600.0	7,378.0	14,210.0	7,606.0	121.9	120.7	-123.44	-6,609.4	-1,309.7	414.3	212.7	201.66	2.055		
13,660.6	7,378.0	14,270.5	7,606.0	122.9	121.7	-123.15	-6,669.9	-1,309.7	417.6	213.5	204.08	2.046 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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	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 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-167.84	0.0	11.2	12.0	11.0	1.00	12.021		
400.0	400.0	400.0	400.0	0.7	0.7	-170.00	0.0	11.2	14.6	13.3	1.35	10.819		
500.0	499.9	500.2	500.2	0.9	0.9	-171.85	-0.2	10.3	18.1	16.4	1.70	10.627		
600.0	599.7	600.5	600.4	1.1	1.0	-172.97	-0.9	7.8	21.5	19.5	2.05	10.508		
700.0	699.4	700.8	700.7	1.3	1.2	-173.67	-2.0	3.6	25.0	22.6	2.40	10.427		
800.0	798.9	801.2	800.9	1.5	1.4	-174.11	-3.6	-2.4	28.5	25.7	2.75	10.367		
900.0	898.3	901.7	901.0	1.8	1.6	-174.36	-5.6	-10.0	31.9	28.8	3.10	10.320		
1,000.0	997.4	1,002.2	1,001.1	2.0	1.8	-174.48	-8.0	-19.4	35.4	32.0	3.44	10.282		
1,100.0	1,096.3	1,102.8	1,101.0	2.3	2.1	-174.51	-10.9	-30.5	38.9	35.1	3.79	10.248		
1,200.0	1,194.9	1,203.4	1,200.8	2.7	2.4	-174.46	-14.2	-43.2	42.3	38.2	4.14	10.217		
1,300.0	1,293.3	1,304.1	1,300.4	3.0	2.6	-174.37	-18.0	-57.7	45.8	41.3	4.49	10.188		
1,400.0	1,391.2	1,404.9	1,399.8	3.4	3.0	-174.22	-22.2	-73.9	49.2	44.4	4.85	10.159		
1,500.0	1,488.9	1,504.9	1,498.2	3.8	3.3	-174.14	-26.7	-90.9	53.3	48.1	5.20	10.262		
1,600.0	1,586.1	1,604.8	1,596.5	4.3	3.6	-174.24	-31.2	-108.0	59.1	53.6	5.55	10.667		
1,700.0	1,683.1	1,704.5	1,694.7	4.7	4.0	-174.41	-35.6	-125.1	65.9	60.0	5.90	11.165		
1,800.0	1,780.1	1,804.3	1,792.9	5.1	4.3	-174.54	-40.1	-142.1	72.6	66.4	6.26	11.607		
1,900.0	1,877.2	1,904.1	1,891.1	5.6	4.6	-174.66	-44.5	-159.2	79.4	72.8	6.61	12.002		
2,000.0	1,974.2	2,003.9	1,989.3	6.1	5.0	-174.75	-49.0	-176.3	86.1	79.2	6.97	12.356		
2,100.0	2,071.2	2,103.6	2,087.5	6.5	5.3	-174.83	-53.5	-193.3	92.9	85.5	7.33	12.676		
2,200.0	2,168.2	2,203.4	2,185.7	7.0	5.7	-174.90	-57.9	-210.4	99.6	91.9	7.68	12.966		
2,300.0	2,265.2	2,303.2	2,283.9	7.4	6.0	-174.96	-62.4	-227.4	106.4	98.3	8.04	13.231		
2,400.0	2,362.2	2,402.9	2,382.1	7.9	6.4	-175.02	-66.8	-244.5	113.1	104.7	8.40	13.473		
2,500.0	2,459.2	2,502.7	2,480.3	8.4	6.7	-175.07	-71.3	-261.6	119.9	111.1	8.75	13.696		
2,600.0	2,556.3	2,602.5	2,578.5	8.8	7.1	-175.11	-75.8	-278.6	126.6	117.5	9.11	13.901		
2,700.0	2,653.3	2,702.3	2,676.7	9.3	7.4	-175.15	-80.2	-295.7	133.4	123.9	9.46	14.091		
2,800.0	2,750.3	2,802.0	2,774.9	9.7	7.8	-175.18	-84.7	-312.7	140.1	130.3	9.82	14.267		
2,900.0	2,847.3	2,901.8	2,873.1	10.2	8.1	-175.21	-89.1	-329.8	146.8	136.7	10.18	14.431		
3,000.0	2,944.3	3,001.6	2,971.3	10.7	8.5	-175.24	-93.6	-346.9	153.6	143.1	10.53	14.584		
3,100.0	3,041.3	3,101.3	3,069.5	11.1	8.8	-175.27	-98.1	-363.9	160.3	149.5	10.89	14.726		
3,200.0	3,138.3	3,201.1	3,167.7	11.6	9.2	-175.29	-102.5	-381.0	167.1	155.8	11.24	14.860		
3,300.0	3,235.4	3,300.9	3,265.9	12.1	9.5	-175.32	-107.0	-398.0	173.8	162.2	11.60	14.986		
3,400.0	3,332.4	3,400.7	3,364.1	12.5	9.9	-175.34	-111.4	-415.1	180.6	168.6	11.96	15.104		
3,500.0	3,429.4	3,500.4	3,462.3	13.0	10.3	-175.36	-115.9	-432.2	187.3	175.0	12.31	15.215		
3,600.0	3,526.4	3,600.2	3,560.5	13.5	10.6	-175.37	-120.4	-449.2	194.1	181.4	12.67	15.320		
3,700.0	3,623.4	3,700.0	3,658.7	13.9	11.0	-175.39	-124.8	-466.3	200.8	187.8	13.02	15.420		
3,800.0	3,720.4	3,799.8	3,756.9	14.4	11.3	-175.41	-129.3	-483.3	207.6	194.2	13.38	15.514		
3,900.0	3,817.4	3,899.5	3,855.1	14.9	11.7	-175.42	-133.7	-500.4	214.3	200.6	13.74	15.603		
4,000.0	3,914.5	3,999.3	3,953.3	15.3	12.0	-175.43	-138.2	-517.5	221.1	207.0	14.09	15.687		
4,100.0	4,011.5	4,099.1	4,051.5	15.8	12.4	-175.45	-142.7	-534.5	227.8	213.4	14.45	15.768		
4,200.0	4,108.5	4,198.8	4,149.7	16.3	12.7	-175.46	-147.1	-551.6	234.6	219.8	14.80	15.845		
4,300.0	4,205.5	4,298.6	4,247.9	16.7	13.1	-175.47	-151.6	-568.6	241.3	226.1	15.16	15.918		
4,400.0	4,302.5	4,398.4	4,346.1	17.2	13.5	-175.48	-156.0	-585.7	248.1	232.5	15.52	15.987		
4,500.0	4,399.5	4,498.2	4,444.3	17.7	13.8	-175.49	-160.5	-602.8	254.8	238.9	15.87	16.054		
4,600.0	4,496.6	4,597.9	4,542.5	18.1	14.2	-175.50	-165.0	-619.8	261.5	245.3	16.23	16.118		
4,700.0	4,593.6	4,697.7	4,640.7	18.6	14.5	-175.51	-169.4	-636.9	268.3	251.7	16.58	16.179		
4,800.0	4,690.6	4,797.5	4,738.9	19.1	14.9	-175.52	-173.9	-654.0	275.0	258.1	16.94	16.237		
4,900.0	4,787.6	4,897.2	4,837.1	19.5	15.2	-175.53	-178.3	-671.0	281.8	264.5	17.29	16.293		
5,000.0	4,884.6	4,997.0	4,935.3	20.0	15.6	-175.54	-182.8	-688.1	288.5	270.9	17.65	16.347		
5,100.0	4,981.6	5,096.8	5,033.5	20.5	15.9	-175.54	-187.3	-705.1	295.3	277.3	18.01	16.398		

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 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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
5,200.0	5,078.6	5,196.6	5,131.7	20.9	16.3	-175.55	-191.7	-722.2	302.0	283.7	18.36	16.448	
5,300.0	5,175.7	5,296.3	5,229.9	21.4	16.7	-175.56	-196.2	-739.3	308.8	290.1	18.72	16.496	
5,400.0	5,272.7	5,396.1	5,328.1	21.9	17.0	-175.56	-200.6	-756.3	315.5	296.4	19.07	16.542	
5,500.0	5,369.7	5,495.9	5,426.3	22.3	17.4	-175.57	-205.1	-773.4	322.3	302.8	19.43	16.586	
5,600.0	5,466.7	5,595.7	5,524.5	22.8	17.7	-175.58	-209.6	-790.4	329.0	309.2	19.79	16.629	
5,700.0	5,563.7	5,695.4	5,622.7	23.3	18.1	-175.58	-214.0	-807.5	335.8	315.6	20.14	16.670	
5,800.0	5,660.7	5,795.2	5,720.9	23.7	18.4	-175.59	-218.5	-824.6	342.5	322.0	20.50	16.710	
5,900.0	5,757.7	5,895.0	5,819.1	24.2	18.8	-175.59	-222.9	-841.6	349.3	328.4	20.85	16.748	
6,000.0	5,854.8	5,994.7	5,917.3	24.7	19.2	-175.60	-227.4	-858.7	356.0	334.8	21.21	16.785	
6,100.0	5,951.8	6,094.5	6,015.5	25.1	19.5	-175.60	-231.9	-875.7	362.8	341.2	21.57	16.821	
6,200.0	6,048.8	6,194.3	6,113.7	25.6	19.9	-175.61	-236.3	-892.8	369.5	347.6	21.92	16.856	
6,300.0	6,145.8	6,294.1	6,211.9	26.1	20.2	-175.61	-240.8	-909.9	376.2	354.0	22.28	16.889	
6,400.0	6,242.8	6,393.8	6,310.1	26.5	20.6	-175.62	-245.2	-926.9	383.0	360.4	22.63	16.922	
6,500.0	6,339.8	6,493.6	6,408.3	27.0	20.9	-175.62	-249.7	-944.0	389.7	366.8	22.99	16.954	
6,600.0	6,436.8	6,593.4	6,506.6	27.5	21.3	-175.63	-254.2	-961.0	396.5	373.1	23.34	16.984	
6,700.0	6,533.9	6,693.1	6,604.8	28.0	21.7	-175.63	-258.6	-978.1	403.2	379.5	23.70	17.014	
6,800.0	6,630.9	6,792.9	6,703.0	28.4	22.0	-175.63	-263.1	-995.2	410.0	385.9	24.06	17.043	
6,900.0	6,727.9	6,892.7	6,801.2	28.9	22.4	-175.64	-267.5	-1,012.2	416.7	392.3	24.41	17.071	
7,000.0	6,824.9	7,001.2	6,907.6	29.4	22.8	-175.12	-276.3	-1,030.9	422.9	398.0	24.87	17.000	
7,100.0	6,921.5	7,112.8	7,013.5	29.8	23.3	-148.21	-304.8	-1,050.1	426.8	400.9	25.91	16.470	
7,200.0	7,015.0	7,220.3	7,108.6	30.4	23.9	-126.68	-351.6	-1,068.1	430.2	402.6	27.58	15.598	
7,300.0	7,102.7	7,324.2	7,190.5	31.0	24.5	-114.49	-413.0	-1,084.3	433.2	403.3	29.83	14.523	
7,400.0	7,181.8	7,424.5	7,257.9	31.6	25.3	-106.58	-485.7	-1,098.5	435.7	403.3	32.44	13.433	
7,500.0	7,250.0	7,521.5	7,310.2	32.3	26.0	-100.90	-566.5	-1,110.3	437.8	402.7	35.12	12.465	
7,600.0	7,305.2	7,615.7	7,347.4	33.0	26.9	-96.63	-652.4	-1,119.7	439.2	401.6	37.60	11.680	
7,700.0	7,345.6	7,707.4	7,369.8	33.8	27.8	-93.37	-740.9	-1,126.6	439.8	400.1	39.70	11.077	
7,800.0	7,370.1	7,796.9	7,377.9	34.6	28.7	-90.95	-829.8	-1,131.2	439.5	398.2	41.34	10.631	
7,900.0	7,378.0	7,895.4	7,378.0	35.5	29.7	-90.00	-928.3	-1,134.6	437.0	394.2	42.78	10.216	
8,000.0	7,378.0	7,995.3	7,378.0	36.4	30.9	-90.00	-1,028.2	-1,138.1	432.6	386.9	45.71	9.465	
8,100.0	7,378.0	8,095.3	7,378.0	37.3	32.0	-90.00	-1,128.0	-1,141.6	428.3	379.5	48.72	8.791	
8,200.0	7,378.0	8,195.2	7,378.0	38.3	33.3	-90.00	-1,227.9	-1,145.1	423.9	372.1	51.79	8.185	
8,300.0	7,378.0	8,288.9	7,378.0	39.4	34.5	-90.00	-1,321.6	-1,147.7	420.2	365.4	54.81	7.666	
8,400.0	7,378.0	8,382.1	7,378.0	40.5	35.7	-90.00	-1,414.8	-1,148.9	418.1	360.2	57.87	7.225	
8,478.3	7,378.0	8,455.1	7,378.0	41.4	36.6	-90.00	-1,487.8	-1,148.7	417.6	357.3	60.29	6.927	
8,500.0	7,378.0	8,475.3	7,378.0	41.6	36.9	-90.00	-1,508.0	-1,148.5	417.6	356.7	60.96	6.851	
8,600.0	7,378.0	8,572.0	7,378.0	42.8	38.2	-90.00	-1,604.6	-1,146.7	418.6	354.5	64.14	6.526	
8,700.0	7,378.0	8,671.9	7,378.0	44.0	39.5	-90.00	-1,704.6	-1,144.7	419.7	352.3	67.40	6.227	
8,800.0	7,378.0	8,771.9	7,378.0	45.3	40.9	-90.00	-1,804.6	-1,142.7	420.9	350.2	70.69	5.954	
8,900.0	7,378.0	8,871.9	7,378.0	46.6	42.3	-90.00	-1,904.5	-1,140.6	422.0	348.1	73.99	5.704	
9,000.0	7,378.0	8,971.9	7,378.0	47.9	43.8	-90.00	-2,004.5	-1,138.6	423.2	345.9	77.32	5.474	
9,100.0	7,378.0	9,071.9	7,378.0	49.3	45.3	-90.00	-2,104.5	-1,136.6	424.3	343.7	80.65	5.261	
9,200.0	7,378.0	9,171.9	7,378.0	50.6	46.7	-90.00	-2,204.4	-1,134.6	425.5	341.5	84.01	5.065	
9,300.0	7,378.0	9,271.9	7,378.0	52.0	48.3	-90.00	-2,304.4	-1,132.6	426.6	339.3	87.37	4.883	
9,400.0	7,378.0	9,371.9	7,378.0	53.4	49.8	-90.00	-2,404.4	-1,130.5	427.8	337.0	90.75	4.714	
9,500.0	7,378.0	9,471.9	7,378.0	54.9	51.3	-90.00	-2,504.4	-1,128.5	428.9	334.8	94.13	4.557	
9,600.0	7,378.0	9,571.9	7,378.0	56.3	52.9	-90.00	-2,604.3	-1,126.5	430.1	332.6	97.53	4.410	
9,700.0	7,378.0	9,671.9	7,378.0	57.8	54.4	-90.00	-2,704.3	-1,124.5	431.2	330.3	100.93	4.273	
9,800.0	7,378.0	9,771.9	7,378.0	59.3	56.0	-90.00	-2,804.3	-1,122.5	432.4	328.0	104.34	4.144	
9,900.0	7,378.0	9,871.9	7,378.0	60.8	57.6	-90.00	-2,904.3	-1,120.4	433.5	325.8	107.75	4.023	
10,000.0	7,378.0	9,971.9	7,378.0	62.3	59.2	-90.00	-3,004.2	-1,118.4	434.7	323.5	111.17	3.910	
10,100.0	7,378.0	10,071.9	7,378.0	63.9	60.8	-90.00	-3,104.2	-1,116.4	435.8	321.2	114.60	3.803	
10,200.0	7,378.0	10,171.9	7,378.0	65.4	62.4	-90.00	-3,204.2	-1,114.4	437.0	318.9	118.03	3.702	

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 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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		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)					
10,300.0	7,378.0	10,271.8	7,378.0	67.0	64.0	-90.00	-3,304.1	-1,112.3	438.1	316.7	121.47	3.607	
10,400.0	7,378.0	10,371.8	7,378.0	68.5	65.6	-90.00	-3,404.1	-1,110.3	439.3	314.4	124.91	3.517	
10,500.0	7,378.0	10,471.8	7,378.0	70.1	67.3	-90.00	-3,504.1	-1,108.3	440.4	312.1	128.35	3.431	
10,600.0	7,378.0	10,571.8	7,378.0	71.7	68.9	-90.00	-3,604.1	-1,106.3	441.6	309.8	131.80	3.350	
10,700.0	7,378.0	10,676.5	7,378.0	73.3	70.6	-90.00	-3,708.8	-1,104.5	442.4	307.1	135.33	3.269	
10,800.0	7,378.0	10,780.8	7,378.0	74.8	72.4	-90.00	-3,813.0	-1,104.2	441.8	302.9	138.85	3.182	
10,900.0	7,378.0	10,880.8	7,378.0	76.4	74.0	-90.00	-3,913.0	-1,104.2	440.9	298.6	142.31	3.098	
11,000.0	7,378.0	10,980.7	7,378.0	78.1	75.7	-90.00	-4,013.0	-1,104.2	440.0	294.3	145.76	3.019	
11,100.0	7,378.0	11,080.7	7,378.0	79.7	77.4	-90.00	-4,113.0	-1,104.2	439.2	289.9	149.22	2.943	
11,200.0	7,378.0	11,180.7	7,378.0	81.3	79.0	-90.00	-4,213.0	-1,104.2	438.3	285.6	152.68	2.871	
11,300.0	7,378.0	11,280.7	7,378.0	82.9	80.7	-90.00	-4,313.0	-1,104.2	437.4	281.3	156.15	2.801	
11,400.0	7,378.0	11,380.7	7,378.0	84.6	82.4	-90.00	-4,413.0	-1,104.2	436.5	276.9	159.61	2.735	
11,500.0	7,378.0	11,480.7	7,378.0	86.2	84.1	-90.00	-4,513.0	-1,104.2	435.7	272.6	163.08	2.671	
11,597.1	7,378.0	11,577.9	7,378.0	87.8	85.7	-90.00	-4,610.1	-1,104.2	435.3	268.4	166.87	2.608	
11,600.0	7,378.0	11,580.7	7,378.0	87.8	85.8	-90.00	-4,613.0	-1,104.2	435.0	268.1	166.98	2.605	
11,700.0	7,378.0	11,680.7	7,378.0	89.5	87.5	-90.00	-4,712.9	-1,104.2	436.0	264.8	171.23	2.546	
11,800.0	7,378.0	11,780.7	7,378.0	91.2	89.1	-90.00	-4,812.9	-1,104.2	438.7	263.2	175.42	2.501	
11,900.0	7,378.0	11,880.6	7,378.0	92.9	90.8	-90.00	-4,912.8	-1,104.2	443.1	263.5	179.57	2.467	
12,000.0	7,378.0	11,980.4	7,378.0	94.5	92.5	-90.00	-5,012.6	-1,104.2	449.1	265.7	183.44	2.448	
12,100.0	7,378.0	12,076.6	7,378.0	96.2	94.2	-90.00	-5,108.8	-1,104.1	455.7	268.9	186.85	2.439	
12,200.0	7,378.0	12,168.9	7,378.0	97.9	95.7	-90.00	-5,201.1	-1,102.6	463.7	273.5	190.19	2.438 SF	
12,300.0	7,378.0	12,260.9	7,378.0	99.6	97.3	-90.00	-5,293.0	-1,099.6	473.3	279.8	193.53	2.446	
12,400.0	7,378.0	12,352.6	7,378.0	101.3	98.8	-90.00	-5,384.6	-1,095.2	484.5	287.6	196.86	2.461	
12,500.0	7,378.0	12,443.9	7,378.0	103.0	100.4	-90.00	-5,475.8	-1,089.4	497.3	297.1	200.19	2.484	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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 (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	77.77	3.6	16.8	17.2					
100.0	100.0	100.0	100.0	0.2	0.2	77.77	3.6	16.8	17.2	16.9	0.30	56.559		
200.0	200.0	200.0	200.0	0.3	0.3	77.77	3.6	16.8	17.2	16.5	0.65	26.314 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-179.20	3.6	16.8	18.0	17.0	1.00	18.018		
400.0	400.0	400.0	400.0	0.7	0.7	-179.30	3.6	16.8	20.7	19.3	1.35	15.304		
500.0	499.9	499.9	499.9	0.9	0.8	-179.42	3.6	16.8	25.0	23.3	1.70	14.735 SF		
600.0	599.7	600.2	600.2	1.1	1.0	179.85	3.8	15.9	30.3	28.3	2.05	14.815		
700.0	699.4	700.5	700.5	1.3	1.2	178.26	4.2	13.3	35.8	33.4	2.40	14.930		
800.0	798.9	801.0	800.9	1.5	1.4	176.17	4.9	9.0	41.4	38.6	2.75	15.074		
900.0	898.3	901.5	901.2	1.8	1.6	173.78	5.9	2.9	47.2	44.1	3.10	15.242		
1,000.0	997.4	1,002.0	1,001.4	2.0	1.8	171.23	7.2	-4.9	53.4	49.9	3.46	15.422		
1,100.0	1,096.3	1,102.6	1,101.5	2.3	2.0	168.59	8.8	-14.5	59.9	56.0	3.84	15.601		
1,200.0	1,194.9	1,202.6	1,200.9	2.7	2.2	166.15	10.6	-25.3	67.0	62.8	4.23	15.861		
1,300.0	1,293.3	1,302.2	1,299.9	3.0	2.5	164.49	12.3	-36.2	75.9	71.3	4.62	16.415		
1,400.0	1,391.2	1,401.6	1,398.7	3.4	2.7	163.51	14.1	-47.0	86.5	81.4	5.03	17.206		
1,500.0	1,488.9	1,500.9	1,497.3	3.8	3.0	163.03	15.9	-57.8	98.7	93.3	5.43	18.184		
1,600.0	1,586.1	1,599.9	1,595.8	4.3	3.2	162.91	17.7	-68.6	112.6	106.8	5.83	19.314		
1,700.0	1,683.1	1,698.8	1,694.1	4.7	3.5	162.97	19.5	-79.4	127.4	121.2	6.24	20.416		
1,800.0	1,780.1	1,797.7	1,792.3	5.1	3.7	163.02	21.2	-90.2	142.2	135.6	6.65	21.377		
1,900.0	1,877.2	1,896.6	1,890.6	5.6	3.9	163.06	23.0	-101.0	157.0	149.9	7.07	22.221		
2,000.0	1,974.2	1,995.5	1,988.9	6.1	4.2	163.09	24.8	-111.8	171.8	164.3	7.48	22.968		
2,100.0	2,071.2	2,094.4	2,087.2	6.5	4.5	163.12	26.5	-122.6	186.6	178.7	7.90	23.634		
2,200.0	2,168.2	2,193.3	2,185.5	7.0	4.7	163.14	28.3	-133.4	201.4	193.1	8.31	24.231		
2,300.0	2,265.2	2,292.2	2,283.8	7.4	5.0	163.16	30.1	-144.2	216.2	207.5	8.73	24.769		
2,400.0	2,362.2	2,391.1	2,382.1	7.9	5.2	163.18	31.9	-155.0	231.0	221.8	9.15	25.257		
2,500.0	2,459.2	2,490.0	2,480.4	8.4	5.5	163.20	33.6	-165.8	245.8	236.2	9.56	25.700		
2,600.0	2,556.3	2,588.9	2,578.7	8.8	5.7	163.21	35.4	-176.6	260.6	250.6	9.98	26.105		
2,700.0	2,653.3	2,687.8	2,677.0	9.3	6.0	163.22	37.2	-187.4	275.4	265.0	10.40	26.476		
2,800.0	2,750.3	2,786.7	2,775.3	9.7	6.2	163.24	39.0	-198.2	290.2	279.4	10.82	26.818		
2,900.0	2,847.3	2,885.6	2,873.6	10.2	6.5	163.25	40.7	-209.0	305.0	293.7	11.24	27.133		
3,000.0	2,944.3	2,984.5	2,971.9	10.7	6.7	163.25	42.5	-219.8	319.8	308.1	11.66	27.425		
3,100.0	3,041.3	3,083.4	3,070.2	11.1	7.0	163.26	44.3	-230.5	334.6	322.5	12.08	27.696		
3,200.0	3,138.3	3,182.3	3,168.4	11.6	7.2	163.27	46.1	-241.3	349.4	336.9	12.50	27.948		
3,300.0	3,235.4	3,281.2	3,266.7	12.1	7.5	163.28	47.8	-252.1	364.2	351.2	12.92	28.184		
3,400.0	3,332.4	3,380.1	3,365.0	12.5	7.8	163.28	49.6	-262.9	379.0	365.6	13.34	28.404		
3,500.0	3,429.4	3,479.0	3,463.3	13.0	8.0	163.29	51.4	-273.7	393.8	380.0	13.76	28.611		
3,600.0	3,526.4	3,577.9	3,561.6	13.5	8.3	163.30	53.2	-284.5	408.5	394.4	14.18	28.804		
3,700.0	3,623.4	3,676.8	3,659.9	13.9	8.5	163.30	54.9	-295.3	423.3	408.7	14.60	28.987		
3,800.0	3,720.4	3,775.7	3,758.2	14.4	8.8	163.31	56.7	-306.1	438.1	423.1	15.03	29.159		
3,900.0	3,817.4	3,874.6	3,856.5	14.9	9.0	163.31	58.5	-316.9	452.9	437.5	15.45	29.321		
4,000.0	3,914.5	3,973.5	3,954.8	15.3	9.3	163.31	60.2	-327.7	467.7	451.9	15.87	29.474		
4,100.0	4,011.5	4,072.4	4,053.1	15.8	9.6	163.32	62.0	-338.5	482.5	466.2	16.29	29.620		
4,200.0	4,108.5	4,171.3	4,151.4	16.3	9.8	163.32	63.8	-349.3	497.3	480.6	16.71	29.757		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	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 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	-167.27	0.0	30.8	31.6	30.6	1.00	31.515		
400.0	400.0	401.0	401.0	0.7	0.7	-168.23	0.0	30.8	34.2	32.8	1.35	25.276		
500.0	499.9	500.9	500.9	0.9	0.9	-169.55	0.0	30.8	38.5	36.8	1.70	22.613		
600.0	599.7	600.7	600.7	1.1	1.0	-170.96	0.0	30.8	44.5	42.4	2.05	21.709		
700.0	699.4	701.2	701.2	1.3	1.2	-172.79	0.3	30.0	51.5	49.1	2.40	21.467		
800.0	798.9	801.7	801.7	1.5	1.4	-175.22	1.4	27.5	58.7	56.0	2.75	21.388 SF		
900.0	898.3	902.0	901.9	1.8	1.6	-177.98	3.1	23.5	66.4	63.3	3.09	21.464		
1,000.0	997.4	1,001.5	1,001.3	2.0	1.7	179.65	4.9	19.2	75.6	72.2	3.44	21.965		
1,100.0	1,096.3	1,100.9	1,100.5	2.3	1.9	177.84	6.8	14.8	86.6	82.8	3.79	22.853		
1,200.0	1,194.9	1,200.1	1,199.6	2.7	2.1	176.50	8.6	10.5	99.4	95.3	4.14	24.022		
1,300.0	1,293.3	1,299.0	1,298.4	3.0	2.3	175.53	10.4	6.1	114.0	109.5	4.49	25.401		
1,400.0	1,391.2	1,397.6	1,396.9	3.4	2.5	174.85	12.3	1.8	130.4	125.5	4.84	26.943		
1,500.0	1,488.9	1,496.0	1,495.2	3.8	2.7	174.37	14.1	-2.5	148.4	143.2	5.19	28.614		
1,600.0	1,586.1	1,594.0	1,593.1	4.3	2.9	174.06	15.9	-6.8	168.2	162.6	5.53	30.391		
1,700.0	1,683.1	1,691.8	1,690.8	4.7	3.0	173.86	17.7	-11.1	188.8	183.0	5.89	32.056		
1,800.0	1,780.1	1,789.7	1,788.5	5.1	3.2	173.70	19.5	-15.3	209.5	203.3	6.25	33.526		
1,900.0	1,877.2	1,887.5	1,886.2	5.6	3.4	173.56	21.4	-19.6	230.2	223.6	6.61	34.834		
2,000.0	1,974.2	1,985.3	1,984.0	6.1	3.6	173.45	23.2	-23.9	250.9	243.9	6.97	36.006		
2,100.0	2,071.2	2,083.2	2,081.7	6.5	3.8	173.36	25.0	-28.2	271.6	264.2	7.33	37.062		
2,200.0	2,168.2	2,181.0	2,179.4	7.0	4.0	173.28	26.8	-32.5	292.2	284.6	7.69	38.017		
2,300.0	2,265.2	2,278.8	2,277.2	7.4	4.2	173.21	28.6	-36.7	312.9	304.9	8.05	38.887		
2,400.0	2,362.2	2,376.7	2,374.9	7.9	4.4	173.15	30.4	-41.0	333.6	325.2	8.41	39.680		
2,500.0	2,459.2	2,474.5	2,472.6	8.4	4.5	173.10	32.3	-45.3	354.3	345.5	8.77	40.408		
2,600.0	2,556.3	2,572.4	2,570.3	8.8	4.7	173.05	34.1	-49.6	375.0	365.8	9.13	41.078		
2,700.0	2,653.3	2,670.2	2,668.1	9.3	4.9	173.00	35.9	-53.9	395.7	386.2	9.49	41.696		
2,800.0	2,750.3	2,768.0	2,765.8	9.7	5.1	172.97	37.7	-58.2	416.3	406.5	9.85	42.268		
2,900.0	2,847.3	2,865.9	2,863.5	10.2	5.3	172.93	39.5	-62.4	437.0	426.8	10.21	42.800		
3,000.0	2,944.3	2,963.7	2,961.2	10.7	5.5	172.90	41.3	-66.7	457.7	447.1	10.57	43.295		
3,100.0	3,041.3	3,061.5	3,059.0	11.1	5.7	172.87	43.2	-71.0	478.4	467.5	10.93	43.756		
3,200.0	3,138.3	3,159.4	3,156.7	11.6	5.9	172.84	45.0	-75.3	499.1	487.8	11.29	44.188		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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	84.29	3.6	36.4	36.6					
100.0	100.0	101.0	101.0	0.2	0.2	84.29	3.6	36.4	36.6					
200.0	200.0	201.0	201.0	0.3	0.3	84.29	3.6	36.4	36.6					
300.0	300.0	301.0	301.0	0.5	0.5	-172.80	3.6	36.4	37.4	0.65	55.847 CC, ES			
400.0	400.0	401.0	401.0	0.7	0.7	-173.27	3.6	36.4	40.0	1.00	37.288			
500.0	499.9	500.9	500.9	0.9	0.9	-173.92	3.6	36.4	38.7	1.35	29.593			
									44.4	1.70	26.080			
600.0	599.7	600.7	600.7	1.1	1.0	-174.65	3.6	36.4	50.4	2.05	24.619			
700.0	699.4	700.4	700.4	1.3	1.2	-175.37	3.6	36.4	58.2	2.40	24.317 SF			
800.0	798.9	799.9	799.9	1.5	1.4	-176.01	3.6	36.4	67.8	2.74	24.736			
900.0	898.3	899.3	899.3	1.8	1.5	-176.58	3.6	36.4	79.1	3.09	25.634			
1,000.0	997.4	998.4	998.4	2.0	1.7	-177.05	3.6	36.4	92.1	3.43	26.869			
1,100.0	1,096.3	1,097.3	1,097.3	2.3	1.9	-177.46	3.6	36.4	106.9	3.77	28.350			
1,200.0	1,194.9	1,195.9	1,195.9	2.7	2.1	-177.79	3.6	36.4	123.4	4.11	30.017			
1,300.0	1,293.3	1,294.3	1,294.3	3.0	2.2	-178.07	3.6	36.4	141.6	4.45	31.829			
1,400.0	1,391.2	1,392.2	1,392.2	3.4	2.4	-178.30	3.6	36.4	161.5	4.78	33.758			
1,500.0	1,488.9	1,489.9	1,489.9	3.8	2.6	-178.49	3.6	36.4	183.2	5.12	35.783			
1,600.0	1,586.1	1,587.1	1,587.1	4.3	2.7	-178.66	3.6	36.4	206.5	5.45	37.888			
1,700.0	1,683.1	1,684.1	1,684.1	4.7	2.9	-178.80	3.6	36.4	230.7	5.79	39.837			
1,800.0	1,780.1	1,781.1	1,781.1	5.1	3.1	-178.91	3.6	36.4	255.0	6.13	41.566			
1,900.0	1,877.2	1,878.2	1,878.2	5.6	3.3	-179.01	3.6	36.4	279.2	6.48	43.113			
2,000.0	1,974.2	1,975.2	1,975.2	6.1	3.4	-179.09	3.6	36.4	303.5	6.82	44.505			
2,100.0	2,071.2	2,072.2	2,072.2	6.5	3.6	-179.16	3.6	36.4	327.7	7.16	45.764			
2,200.0	2,168.2	2,169.2	2,169.2	7.0	3.8	-179.21	3.6	36.4	352.0	7.50	46.909			
2,300.0	2,265.2	2,266.2	2,266.2	7.4	3.9	-179.26	3.6	36.4	376.2	7.85	47.954			
2,400.0	2,362.2	2,363.2	2,363.2	7.9	4.1	-179.31	3.6	36.4	400.5	8.19	48.912			
2,500.0	2,459.2	2,460.2	2,460.2	8.4	4.3	-179.35	3.6	36.4	424.7	8.53	49.794			
2,600.0	2,556.3	2,557.3	2,557.3	8.8	4.4	-179.38	3.6	36.4	449.0	8.87	50.607			
2,700.0	2,653.3	2,654.3	2,654.3	9.3	4.6	-179.41	3.6	36.4	473.2	9.21	51.361			
2,800.0	2,750.3	2,751.3	2,751.3	9.7	4.8	-179.44	3.6	36.4	497.5	9.56	52.060			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3G-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	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 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	-167.18	0.0	42.0	42.8	41.8	1.00	42.667		
400.0	400.0	401.0	401.0	0.7	0.7	-167.91	0.0	42.0	45.4	44.0	1.35	33.549		
500.0	499.9	500.9	500.9	0.9	0.9	-168.96	0.0	42.0	49.6	47.9	1.70	29.186		
600.0	599.7	600.0	600.0	1.1	1.0	-170.13	0.0	42.8	56.5	54.5	2.05	27.601 SF		
700.0	699.4	698.1	698.1	1.3	1.2	-171.24	0.2	45.4	66.9	64.5	2.39	27.946		
800.0	798.9	796.1	796.0	1.5	1.4	-172.16	0.4	49.6	80.6	77.9	2.74	29.459		
900.0	898.3	894.8	894.6	1.8	1.6	-172.93	0.6	54.4	96.6	93.5	3.08	31.378		
1,000.0	997.4	993.2	992.9	2.0	1.7	-173.58	0.8	59.1	114.4	110.9	3.42	33.430		
1,100.0	1,096.3	1,091.3	1,090.8	2.3	1.9	-174.12	1.1	63.9	133.8	130.1	3.76	35.583		
1,200.0	1,194.9	1,189.0	1,188.4	2.7	2.1	-174.58	1.3	68.6	155.0	150.9	4.10	37.814		
1,300.0	1,293.3	1,286.4	1,285.7	3.0	2.3	-174.98	1.5	73.3	177.9	173.4	4.43	40.108		
1,400.0	1,391.2	1,383.3	1,382.5	3.4	2.5	-175.33	1.7	78.0	202.4	197.7	4.77	42.455		
1,500.0	1,488.9	1,479.8	1,478.9	3.8	2.7	-175.63	2.0	82.7	228.7	223.6	5.10	44.847		
1,600.0	1,586.1	1,575.8	1,574.7	4.3	2.9	-175.89	2.2	87.3	256.7	251.2	5.43	47.280		
1,700.0	1,683.1	1,671.5	1,670.4	4.7	3.0	-176.13	2.4	92.0	285.5	279.7	5.77	49.497		
1,800.0	1,780.1	1,767.3	1,766.0	5.1	3.2	-176.33	2.6	96.6	314.3	308.2	6.11	51.466		
1,900.0	1,877.2	1,863.0	1,861.6	5.6	3.4	-176.49	2.9	101.2	343.2	336.7	6.45	53.228		
2,000.0	1,974.2	1,958.8	1,957.3	6.1	3.6	-176.63	3.1	105.9	372.0	365.3	6.79	54.815		
2,100.0	2,071.2	2,054.5	2,052.9	6.5	3.8	-176.75	3.3	110.5	400.9	393.8	7.13	56.251		
2,200.0	2,168.2	2,150.3	2,148.5	7.0	4.0	-176.85	3.5	115.1	429.7	422.3	7.47	57.557		
2,300.0	2,265.2	2,246.0	2,244.2	7.4	4.1	-176.94	3.8	119.8	458.6	450.8	7.81	58.750		
2,400.0	2,362.2	2,341.7	2,339.8	7.9	4.3	-177.02	4.0	124.4	487.5	479.3	8.15	59.844		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3H-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	85.63	3.6	47.6	47.7					
100.0	100.0	101.0	101.0	0.2	0.2	85.63	3.6	47.6	47.7	47.4	0.31	156.173		
200.0	200.0	201.0	201.0	0.3	0.3	85.63	3.6	47.6	47.7	47.0	0.65	72.881	CC, ES	
300.0	300.0	301.0	301.0	0.5	0.5	-171.45	3.6	47.6	48.6	47.6	1.00	48.395		
400.0	400.0	400.5	400.5	0.7	0.7	-171.88	3.7	47.8	51.4	50.0	1.35	38.017		
500.0	499.9	499.4	499.4	0.9	0.8	-172.47	3.8	49.5	57.4	55.7	1.70	33.829		
600.0	599.7	597.9	597.8	1.1	1.0	-173.08	4.1	52.9	67.0	64.9	2.04	32.768	SF	
700.0	699.4	695.8	695.6	1.3	1.2	-173.62	4.4	58.0	79.9	77.5	2.39	33.475		
800.0	798.9	792.9	792.5	1.5	1.4	-174.07	5.0	64.6	96.2	93.5	2.73	35.281		
900.0	898.3	889.2	888.4	1.8	1.6	-174.42	5.6	72.8	116.0	112.9	3.07	37.817		
1,000.0	997.4	984.9	983.6	2.0	1.8	-174.69	6.4	82.6	139.0	135.6	3.40	40.844		
1,100.0	1,096.3	1,081.7	1,079.8	2.3	2.1	-174.92	7.2	92.9	164.2	160.4	3.74	43.903		
1,200.0	1,194.9	1,178.0	1,175.6	2.7	2.3	-175.13	8.0	103.1	191.0	186.9	4.07	46.896		
1,300.0	1,293.3	1,273.8	1,270.9	3.0	2.5	-175.32	8.7	113.3	219.6	215.2	4.41	49.841		
1,400.0	1,391.2	1,369.1	1,365.6	3.4	2.8	-175.50	9.5	123.5	249.8	245.0	4.73	52.753		
1,500.0	1,488.9	1,463.9	1,459.9	3.8	3.0	-175.65	10.3	133.6	281.6	276.6	5.06	55.642		
1,600.0	1,586.1	1,558.1	1,553.6	4.3	3.2	-175.80	11.1	143.6	315.1	309.7	5.39	58.517		
1,700.0	1,683.1	1,652.0	1,646.9	4.7	3.5	-175.95	11.9	153.6	349.5	343.8	5.72	61.096		
1,800.0	1,780.1	1,745.9	1,740.3	5.1	3.7	-176.07	12.7	163.6	383.9	377.9	6.06	63.385		
1,900.0	1,877.2	1,839.8	1,833.6	5.6	3.9	-176.18	13.4	173.6	418.3	411.9	6.39	65.434		
2,000.0	1,974.2	1,933.7	1,927.0	6.1	4.2	-176.26	14.2	183.6	452.7	446.0	6.73	67.279		
2,100.0	2,071.2	2,027.6	2,020.4	6.5	4.4	-176.34	15.0	193.6	487.1	480.0	7.06	68.949		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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			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	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	94.038		
227.3	227.3	228.6	228.6	0.4	0.4	-166.91	0.0	61.5	61.5	60.8	0.75	82.015	CC	
300.0	300.0	302.0	302.0	0.5	0.5	-166.80	-0.3	60.7	61.6	60.6	1.01	61.230		
400.0	400.0	403.0	403.0	0.7	0.7	-166.44	-1.3	58.2	61.6	60.3	1.36	45.419		
500.0	499.9	504.0	503.9	0.9	0.9	-165.84	-3.0	54.0	61.8	60.1	1.71	36.119		
600.0	599.7	605.0	604.7	1.1	1.1	-165.02	-5.3	48.2	62.0	59.9	2.07	29.995		
700.0	699.4	706.0	705.4	1.3	1.3	-163.97	-8.2	40.8	62.3	59.9	2.43	25.653	ES	
800.0	798.9	807.0	805.9	1.5	1.5	-162.70	-11.8	31.7	62.7	59.9	2.80	22.407		
900.0	898.3	908.0	906.2	1.8	1.8	-161.23	-16.0	20.9	63.2	60.0	3.18	19.878		
1,000.0	997.4	1,009.0	1,006.3	2.0	2.1	-159.57	-20.9	8.5	63.9	60.3	3.58	17.839		
1,100.0	1,096.3	1,109.9	1,106.1	2.3	2.4	-157.72	-26.4	-5.5	64.6	60.6	4.00	16.148		
1,200.0	1,194.9	1,210.9	1,205.6	2.7	2.7	-155.72	-32.6	-21.2	65.6	61.2	4.46	14.709		
1,300.0	1,293.3	1,311.8	1,304.8	3.0	3.1	-153.58	-39.4	-38.5	66.8	61.8	4.96	13.460		
1,400.0	1,391.2	1,412.7	1,403.7	3.4	3.5	-151.33	-46.9	-57.4	68.1	62.6	5.51	12.358		
1,500.0	1,488.9	1,513.6	1,502.1	3.8	3.9	-148.99	-55.0	-77.9	69.7	63.6	6.13	11.377		
1,600.0	1,586.1	1,614.5	1,600.2	4.3	4.3	-146.58	-63.7	-100.1	71.6	64.8	6.82	10.500		
1,700.0	1,683.1	1,714.6	1,697.2	4.7	4.8	-144.10	-72.8	-123.1	73.4	65.9	7.57	9.699		
1,800.0	1,780.1	1,814.6	1,794.0	5.1	5.2	-141.72	-81.9	-146.2	75.4	67.0	8.37	9.008		
1,900.0	1,877.2	1,914.5	1,890.8	5.6	5.7	-139.47	-91.0	-169.2	77.5	68.3	9.20	8.416		
2,000.0	1,974.2	2,014.4	1,987.6	6.1	6.1	-137.34	-100.1	-192.3	79.7	69.6	10.07	7.908		
2,100.0	2,071.2	2,114.4	2,084.5	6.5	6.6	-135.33	-109.1	-215.3	82.0	71.0	10.97	7.472		
2,200.0	2,168.2	2,214.3	2,181.3	7.0	7.1	-133.43	-118.2	-238.4	84.3	72.5	11.89	7.096		
2,300.0	2,265.2	2,314.2	2,278.1	7.4	7.5	-131.64	-127.3	-261.5	86.8	74.0	12.82	6.772		
2,400.0	2,362.2	2,414.2	2,374.9	7.9	8.0	-129.94	-136.4	-284.5	89.4	75.6	13.77	6.490		
2,500.0	2,459.2	2,514.1	2,471.7	8.4	8.5	-128.34	-145.5	-307.6	92.0	77.3	14.73	6.245		
2,600.0	2,556.3	2,614.0	2,568.5	8.8	9.0	-126.84	-154.6	-330.6	94.7	79.0	15.71	6.031		
2,700.0	2,653.3	2,714.0	2,665.3	9.3	9.4	-125.41	-163.7	-353.7	97.5	80.8	16.68	5.842		
2,800.0	2,750.3	2,813.9	2,762.1	9.7	9.9	-124.07	-172.7	-376.7	100.3	82.6	17.67	5.676		
2,900.0	2,847.3	2,913.8	2,859.0	10.2	10.4	-122.80	-181.8	-399.8	103.2	84.5	18.66	5.530		
3,000.0	2,944.3	3,013.8	2,955.8	10.7	10.8	-121.60	-190.9	-422.8	106.1	86.4	19.65	5.399		
3,100.0	3,041.3	3,113.7	3,052.6	11.1	11.3	-120.46	-200.0	-445.9	109.0	88.4	20.64	5.283		
3,200.0	3,138.3	3,213.6	3,149.4	11.6	11.8	-119.39	-209.1	-468.9	112.1	90.4	21.64	5.178		
3,300.0	3,235.4	3,313.6	3,246.2	12.1	12.3	-118.37	-218.2	-492.0	115.1	92.5	22.63	5.085		
3,400.0	3,332.4	3,413.5	3,343.0	12.5	12.7	-117.40	-227.3	-515.0	118.2	94.5	23.63	5.001		
3,500.0	3,429.4	3,513.4	3,439.8	13.0	13.2	-116.48	-236.4	-538.1	121.3	96.7	24.63	4.925		
3,600.0	3,526.4	3,613.4	3,536.6	13.5	13.7	-115.61	-245.4	-561.1	124.4	98.8	25.62	4.856		
3,700.0	3,623.4	3,713.3	3,633.5	13.9	14.2	-114.78	-254.5	-584.2	127.6	101.0	26.62	4.793		
3,800.0	3,720.4	3,813.2	3,730.3	14.4	14.6	-114.00	-263.6	-607.3	130.8	103.2	27.61	4.736		
3,900.0	3,817.4	3,913.2	3,827.1	14.9	15.1	-113.25	-272.7	-630.3	134.0	105.4	28.60	4.684		
4,000.0	3,914.5	4,013.1	3,923.9	15.3	15.6	-112.53	-281.8	-653.4	137.2	107.6	29.59	4.637		
4,100.0	4,011.5	4,113.0	4,020.7	15.8	16.1	-111.85	-290.9	-676.4	140.5	109.9	30.58	4.593		
4,200.0	4,108.5	4,213.0	4,117.5	16.3	16.5	-111.20	-300.0	-699.5	143.7	112.2	31.57	4.553		
4,300.0	4,205.5	4,312.9	4,214.3	16.7	17.0	-110.58	-309.0	-722.5	147.0	114.5	32.56	4.516		
4,400.0	4,302.5	4,412.8	4,311.1	17.2	17.5	-109.98	-318.1	-745.6	150.3	116.8	33.55	4.482		
4,500.0	4,399.5	4,512.8	4,408.0	17.7	18.0	-109.41	-327.2	-768.6	153.7	119.1	34.53	4.450		
4,600.0	4,496.6	4,612.7	4,504.8	18.1	18.4	-108.87	-336.3	-791.7	157.0	121.5	35.52	4.421		
4,700.0	4,593.6	4,712.6	4,601.6	18.6	18.9	-108.34	-345.4	-814.7	160.4	123.9	36.50	4.394		
4,800.0	4,690.6	4,812.6	4,698.4	19.1	19.4	-107.84	-354.5	-837.8	163.7	126.2	37.48	4.369		
4,900.0	4,787.6	4,912.5	4,795.2	19.5	19.9	-107.36	-363.6	-860.8	167.1	128.6	38.46	4.345		
5,000.0	4,884.6	5,012.4	4,892.0	20.0	20.3	-106.90	-372.6	-883.9	170.5	131.1	39.44	4.323		

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 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	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)						
5,100.0	4,981.6	5,112.4	4,988.8	20.5	20.8	-106.46	-381.7	-906.9	173.9	133.5	40.41	4.303		
5,200.0	5,078.6	5,212.3	5,085.6	20.9	21.3	-106.03	-390.8	-930.0	177.3	135.9	41.39	4.284		
5,300.0	5,175.7	5,312.2	5,182.4	21.4	21.8	-105.62	-399.9	-953.1	180.7	138.4	42.36	4.266		
5,400.0	5,272.7	5,412.2	5,279.3	21.9	22.2	-105.23	-409.0	-976.1	184.1	140.8	43.34	4.249		
5,500.0	5,369.7	5,512.1	5,376.1	22.3	22.7	-104.85	-418.1	-999.2	187.6	143.3	44.31	4.234		
5,600.0	5,466.7	5,612.0	5,472.9	22.8	23.2	-104.48	-427.2	-1,022.2	191.0	145.7	45.28	4.219		
5,700.0	5,563.7	5,712.0	5,569.7	23.3	23.7	-104.13	-436.3	-1,045.3	194.5	148.2	46.25	4.205		
5,800.0	5,660.7	5,811.9	5,666.5	23.7	24.1	-103.78	-445.3	-1,068.3	197.9	150.7	47.22	4.192		
5,900.0	5,757.7	5,911.8	5,763.3	24.2	24.6	-103.45	-454.4	-1,091.4	201.4	153.2	48.18	4.180		
6,000.0	5,854.8	6,011.8	5,860.1	24.7	25.1	-103.14	-463.5	-1,114.4	204.9	155.7	49.15	4.168		
6,100.0	5,951.8	6,111.7	5,956.9	25.1	25.6	-102.83	-472.6	-1,137.5	208.4	158.2	50.12	4.157		
6,200.0	6,048.8	6,211.6	6,053.8	25.6	26.0	-102.53	-481.7	-1,160.5	211.8	160.8	51.08	4.147		
6,300.0	6,145.8	6,311.6	6,150.6	26.1	26.5	-102.24	-490.8	-1,183.6	215.3	163.3	52.05	4.137		
6,400.0	6,242.8	6,411.5	6,247.4	26.5	27.0	-101.96	-499.9	-1,206.6	218.8	165.8	53.01	4.128		
6,500.0	6,339.8	6,511.4	6,344.2	27.0	27.5	-101.69	-508.9	-1,229.7	222.3	168.3	53.97	4.119		
6,600.0	6,436.8	6,611.4	6,441.0	27.5	28.0	-101.43	-518.0	-1,252.7	225.8	170.9	54.93	4.111		
6,700.0	6,533.9	6,711.3	6,537.8	28.0	28.4	-101.18	-527.1	-1,275.8	229.3	173.4	55.90	4.103		
6,800.0	6,630.9	6,811.2	6,634.6	28.4	28.9	-100.93	-536.2	-1,298.9	232.8	176.0	56.86	4.095		
6,900.0	6,727.9	6,911.2	6,731.4	28.9	29.4	-100.69	-545.3	-1,321.9	236.4	178.5	57.82	4.088		
7,000.0	6,824.9	7,011.1	6,828.3	29.4	29.9	-100.46	-554.4	-1,345.0	239.9	181.1	58.77	4.081		
7,100.0	6,921.5	7,111.0	6,925.0	29.8	30.3	-76.54	-563.5	-1,368.0	239.1	179.6	59.45	4.022		
7,200.0	7,015.0	7,221.7	7,032.4	30.4	30.8	-61.08	-572.4	-1,393.6	222.3	163.8	58.57	3.796		
7,300.0	7,102.7	7,346.7	7,153.3	31.0	31.3	-65.30	-562.5	-1,422.4	178.2	124.1	54.14	3.292		
7,400.0	7,181.8	7,426.1	7,228.0	31.6	31.5	-88.48	-542.2	-1,440.1	120.4	78.8	41.63	2.892 SF		
7,481.5	7,238.3	7,462.7	7,261.2	32.2	31.5	-107.54	-529.4	-1,448.1	95.1	63.0	32.05	2.967		
7,500.0	7,250.0	7,468.2	7,266.2	32.3	31.6	-110.10	-527.2	-1,449.3	96.7	65.7	31.02	3.118		
7,600.0	7,305.2	7,484.9	7,281.0	33.0	31.6	-111.09	-520.5	-1,452.8	149.8	118.6	31.16	4.806		
7,700.0	7,345.6	7,484.7	7,280.9	33.8	31.6	-92.68	-520.6	-1,452.7	235.5	198.7	36.84	6.394		
7,800.0	7,370.1	7,473.4	7,270.8	34.6	31.6	-65.08	-525.2	-1,450.4	328.0	291.9	36.09	9.090		
7,900.0	7,378.0	7,450.0	7,249.8	35.5	31.5	-45.02	-534.1	-1,445.3	419.8	392.7	27.05	15.517		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3J-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
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	1.0	1.0	0.0	0.0	86.89	3.6	67.1	67.2						
100.0	100.0	101.0	101.0	0.2	0.2	86.89	3.6	67.1	67.2	66.9	0.31	220.161			
200.0	200.0	201.0	201.0	0.3	0.3	86.89	3.6	67.1	67.2	66.6	0.65	102.742 CC, ES			
300.0	300.0	301.6	301.6	0.5	0.5	-170.08	3.5	66.9	67.9	66.9	1.00	67.590			
400.0	400.0	402.7	402.6	0.7	0.7	-169.85	2.7	65.3	68.8	67.5	1.36	50.778			
500.0	499.9	503.8	503.7	0.9	0.9	-169.30	1.1	62.1	69.9	68.2	1.71	40.920			
600.0	599.7	604.9	604.7	1.1	1.1	-168.43	-1.3	57.3	71.1	69.0	2.06	34.451			
700.0	699.4	706.0	705.5	1.3	1.3	-167.26	-4.5	51.0	72.4	70.0	2.42	29.884			
800.0	798.9	807.1	806.2	1.5	1.5	-165.83	-8.6	43.0	73.9	71.1	2.79	26.484			
900.0	898.3	908.2	906.8	1.8	1.7	-164.14	-13.4	33.4	75.5	72.3	3.17	23.846			
1,000.0	997.4	1,009.4	1,007.1	2.0	2.0	-162.24	-19.0	22.3	77.4	73.8	3.56	21.727			
1,100.0	1,096.3	1,110.5	1,107.2	2.3	2.3	-160.15	-25.5	9.6	79.5	75.5	3.98	19.970			
1,200.0	1,194.9	1,211.6	1,207.0	2.7	2.6	-157.91	-32.7	-4.7	81.9	77.5	4.43	18.473			
1,300.0	1,293.3	1,312.6	1,306.6	3.0	3.0	-155.55	-40.7	-20.5	84.6	79.7	4.93	17.166			
1,400.0	1,391.2	1,413.7	1,405.7	3.4	3.3	-153.09	-49.5	-37.9	87.7	82.2	5.48	16.007			
1,500.0	1,488.9	1,514.1	1,503.9	3.8	3.7	-150.73	-58.9	-56.5	91.3	85.3	6.08	15.032			
1,600.0	1,586.1	1,613.9	1,601.5	4.3	4.1	-149.02	-68.4	-75.2	96.5	89.8	6.69	14.416			
1,700.0	1,683.1	1,713.7	1,699.1	4.7	4.5	-147.78	-77.8	-93.8	102.5	95.2	7.33	13.993			
1,800.0	1,780.1	1,813.5	1,796.7	5.1	4.9	-146.69	-87.2	-112.4	108.6	100.6	7.98	13.614			
1,900.0	1,877.2	1,913.3	1,894.3	5.6	5.3	-145.71	-96.6	-131.0	114.7	106.0	8.64	13.274			
2,000.0	1,974.2	2,013.1	1,991.9	6.1	5.7	-144.83	-106.1	-149.7	120.8	111.5	9.31	12.970			
2,100.0	2,071.2	2,112.9	2,089.5	6.5	6.1	-144.03	-115.5	-168.3	127.0	117.0	10.00	12.697			
2,200.0	2,168.2	2,212.7	2,187.1	7.0	6.5	-143.31	-124.9	-186.9	133.1	122.4	10.69	12.451			
2,300.0	2,265.2	2,312.5	2,284.6	7.4	6.9	-142.65	-134.3	-205.5	139.3	127.9	11.39	12.229			
2,400.0	2,362.2	2,412.3	2,382.2	7.9	7.3	-142.05	-143.8	-224.2	145.5	133.4	12.10	12.029			
2,500.0	2,459.2	2,512.1	2,479.8	8.4	7.7	-141.50	-153.2	-242.8	151.8	139.0	12.81	11.847			
2,600.0	2,556.3	2,611.9	2,577.4	8.8	8.1	-140.99	-162.6	-261.4	158.0	144.5	13.53	11.681			
2,700.0	2,653.3	2,711.7	2,675.0	9.3	8.5	-140.52	-172.0	-280.0	164.3	150.0	14.25	11.529			
2,800.0	2,750.3	2,811.5	2,772.6	9.7	8.9	-140.09	-181.5	-298.7	170.5	155.6	14.97	11.390			
2,900.0	2,847.3	2,911.2	2,870.2	10.2	9.3	-139.68	-190.9	-317.3	176.8	161.1	15.70	11.263			
3,000.0	2,944.3	3,011.0	2,967.8	10.7	9.7	-139.30	-200.3	-335.9	183.1	166.6	16.43	11.145			
3,100.0	3,041.3	3,110.8	3,065.3	11.1	10.1	-138.95	-209.7	-354.6	189.4	172.2	17.16	11.036			
3,200.0	3,138.3	3,210.6	3,162.9	11.6	10.5	-138.62	-219.2	-373.2	195.6	177.8	17.89	10.936			
3,300.0	3,235.4	3,310.4	3,260.5	12.1	10.9	-138.32	-228.6	-391.8	201.9	183.3	18.63	10.842			
3,400.0	3,332.4	3,410.2	3,358.1	12.5	11.3	-138.03	-238.0	-410.4	208.3	188.9	19.36	10.755			
3,500.0	3,429.4	3,510.0	3,455.7	13.0	11.7	-137.75	-247.4	-429.1	214.6	194.5	20.10	10.674			
3,600.0	3,526.4	3,609.8	3,553.3	13.5	12.1	-137.49	-256.9	-447.7	220.9	200.0	20.84	10.598			
3,700.0	3,623.4	3,709.6	3,650.9	13.9	12.6	-137.25	-266.3	-466.3	227.2	205.6	21.58	10.527			
3,800.0	3,720.4	3,809.4	3,748.5	14.4	13.0	-137.02	-275.7	-484.9	233.5	211.2	22.32	10.460			
3,900.0	3,817.4	3,909.2	3,846.0	14.9	13.4	-136.80	-285.1	-503.6	239.8	216.8	23.07	10.397			
4,000.0	3,914.5	4,009.0	3,943.6	15.3	13.8	-136.60	-294.6	-522.2	246.2	222.4	23.81	10.338			
4,100.0	4,011.5	4,108.8	4,041.2	15.8	14.2	-136.40	-304.0	-540.8	252.5	227.9	24.56	10.282			
4,200.0	4,108.5	4,208.6	4,138.8	16.3	14.6	-136.21	-313.4	-559.4	258.8	233.5	25.30	10.230			
4,300.0	4,205.5	4,308.4	4,236.4	16.7	15.0	-136.04	-322.8	-578.1	265.2	239.1	26.05	10.180			
4,400.0	4,302.5	4,408.2	4,334.0	17.2	15.4	-135.87	-332.3	-596.7	271.5	244.7	26.79	10.133			
4,500.0	4,399.5	4,508.0	4,431.6	17.7	15.8	-135.71	-341.7	-615.3	277.8	250.3	27.54	10.088			
4,600.0	4,496.6	4,607.8	4,529.2	18.1	16.2	-135.55	-351.1	-633.9	284.2	255.9	28.29	10.045			
4,700.0	4,593.6	4,707.6	4,626.8	18.6	16.6	-135.40	-360.5	-652.6	290.5	261.5	29.04	10.005			
4,800.0	4,690.6	4,807.4	4,724.3	19.1	17.0	-135.26	-370.0	-671.2	296.9	267.1	29.79	9.967			
4,900.0	4,787.6	4,907.2	4,821.9	19.5	17.4	-135.13	-379.4	-689.8	303.2	272.7	30.54	9.930			
5,000.0	4,884.6	5,007.0	4,919.5	20.0	17.9	-135.00	-388.8	-708.4	309.6	278.3	31.29	9.895			
5,100.0	4,981.6	5,106.8	5,017.1	20.5	18.3	-134.87	-398.2	-727.1	315.9	283.9	32.04	9.861			

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 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,078.6	5,206.5	5,114.7	20.9	18.7	-134.75	-407.7	-745.7	322.3	289.5	32.79	9.829	
5,300.0	5,175.7	5,306.3	5,212.3	21.4	19.1	-134.64	-417.1	-764.3	328.6	295.1	33.54	9.799	
5,400.0	5,272.7	5,406.1	5,309.9	21.9	19.5	-134.53	-426.5	-783.0	335.0	300.7	34.29	9.769	
5,500.0	5,369.7	5,505.9	5,407.5	22.3	19.9	-134.42	-435.9	-801.6	341.4	306.3	35.04	9.741	
5,600.0	5,466.7	5,605.7	5,505.0	22.8	20.3	-134.32	-445.4	-820.2	347.7	311.9	35.79	9.714	
5,700.0	5,563.7	5,705.5	5,602.6	23.3	20.7	-134.22	-454.8	-838.8	354.1	317.5	36.55	9.688	
5,800.0	5,660.7	5,805.3	5,700.2	23.7	21.1	-134.12	-464.2	-857.5	360.4	323.1	37.30	9.664	
5,900.0	5,757.7	5,905.1	5,797.8	24.2	21.5	-134.03	-473.7	-876.1	366.8	328.7	38.05	9.640	
6,000.0	5,854.8	6,004.9	5,895.4	24.7	21.9	-133.94	-483.1	-894.7	373.2	334.4	38.80	9.617	
6,100.0	5,951.8	6,104.7	5,993.0	25.1	22.4	-133.86	-492.5	-913.3	379.5	340.0	39.56	9.594	
6,200.0	6,048.8	6,204.5	6,090.6	25.6	22.8	-133.77	-501.9	-932.0	385.9	345.6	40.31	9.573	
6,300.0	6,145.8	6,304.3	6,188.2	26.1	23.2	-133.69	-511.4	-950.6	392.3	351.2	41.06	9.552	
6,400.0	6,242.8	6,404.1	6,285.7	26.5	23.6	-133.61	-520.8	-969.2	398.6	356.8	41.82	9.532	
6,500.0	6,339.8	6,503.9	6,383.3	27.0	24.0	-133.54	-530.2	-987.8	405.0	362.4	42.57	9.513	
6,600.0	6,436.8	6,603.7	6,480.9	27.5	24.4	-133.46	-539.6	-1,006.5	411.4	368.0	43.32	9.495	
6,700.0	6,533.9	6,703.5	6,578.5	28.0	24.8	-133.39	-549.1	-1,025.1	417.7	373.6	44.08	9.477	
6,800.0	6,630.9	6,803.3	6,676.1	28.4	25.2	-133.32	-558.5	-1,043.7	424.1	379.3	44.83	9.459	
6,900.0	6,727.9	6,911.6	6,782.1	28.9	25.7	-133.29	-568.3	-1,063.9	430.3	384.8	45.59	9.440 SF	
7,000.0	6,824.9	7,078.5	6,944.8	29.4	26.1	-136.55	-553.9	-1,095.0	426.8	382.2	44.60	9.570	
7,100.0	6,921.5	7,217.7	7,072.7	29.8	26.2	-121.57	-505.8	-1,119.4	409.7	369.7	39.93	10.261	
7,200.0	7,015.0	7,308.3	7,148.3	30.4	26.2	-114.66	-458.2	-1,133.9	387.4	353.7	33.66	11.508	
7,300.0	7,102.7	7,357.0	7,185.6	31.0	26.2	-113.03	-427.7	-1,141.0	376.8	346.4	30.38	12.400	
7,302.1	7,104.5	7,357.7	7,186.1	31.0	26.2	-112.99	-427.3	-1,141.1	376.8	346.4	30.36	12.412	
7,400.0	7,181.8	7,377.2	7,200.3	31.6	26.1	-109.72	-414.2	-1,143.8	388.3	358.1	30.25	12.835	
7,500.0	7,250.0	7,378.9	7,201.6	32.3	26.1	-103.20	-413.0	-1,144.0	423.1	390.8	32.25	13.118	
7,600.0	7,305.2	7,368.6	7,194.1	33.0	26.1	-93.68	-420.0	-1,142.6	475.3	440.2	35.15	13.523	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3K-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	72.7	72.7					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	72.7	72.7	72.4	0.31	238.158		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	72.7	72.7	72.1	0.65	111.140 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	-167.08	0.0	72.7	73.6	72.6	1.00	73.334		
400.0	400.0	401.5	401.5	0.7	0.7	-167.42	-0.1	72.6	76.0	74.6	1.35	56.120		
500.0	499.9	502.6	502.6	0.9	0.9	-167.37	-1.2	71.1	78.7	77.0	1.71	46.184		
600.0	599.7	603.7	603.6	1.1	1.0	-166.89	-3.2	68.1	81.8	79.7	2.06	39.724		
700.0	699.4	704.9	704.6	1.3	1.2	-166.02	-6.3	63.7	85.1	82.7	2.42	35.206		
800.0	798.9	806.0	805.5	1.5	1.4	-164.83	-10.4	57.9	88.7	85.9	2.78	31.873		
900.0	898.3	907.2	906.3	1.8	1.7	-163.35	-15.5	50.5	92.6	89.4	3.16	29.310		
1,000.0	997.4	1,008.4	1,006.9	2.0	1.9	-161.63	-21.6	41.7	96.9	93.3	3.55	27.265		
1,100.0	1,096.3	1,109.5	1,107.3	2.3	2.2	-159.73	-28.7	31.5	101.5	97.6	3.97	25.576		
1,200.0	1,194.9	1,210.7	1,207.4	2.7	2.4	-157.69	-36.9	19.8	106.6	102.2	4.42	24.138		
1,300.0	1,293.3	1,311.2	1,306.7	3.0	2.7	-155.62	-45.9	6.9	112.3	107.4	4.90	22.932		
1,400.0	1,391.2	1,410.9	1,405.1	3.4	3.0	-154.03	-55.0	-6.2	119.5	114.1	5.40	22.146		
1,500.0	1,488.9	1,510.5	1,503.4	3.8	3.4	-152.96	-64.1	-19.2	128.4	122.5	5.91	21.723		
1,600.0	1,586.1	1,609.9	1,601.6	4.3	3.7	-152.36	-73.1	-32.2	138.8	132.3	6.43	21.590		
1,700.0	1,683.1	1,709.3	1,699.7	4.7	4.0	-152.05	-82.2	-45.2	150.0	143.0	6.95	21.573		
1,800.0	1,780.1	1,808.6	1,797.8	5.1	4.3	-151.79	-91.3	-58.2	161.2	153.7	7.48	21.542		
1,900.0	1,877.2	1,908.0	1,895.9	5.6	4.6	-151.56	-100.3	-71.2	172.5	164.5	8.02	21.502		
2,000.0	1,974.2	2,007.4	1,994.0	6.1	4.9	-151.35	-109.4	-84.2	183.7	175.2	8.56	21.458		
2,100.0	2,071.2	2,106.7	2,092.1	6.5	5.3	-151.18	-118.5	-97.2	195.0	185.9	9.11	21.411		
2,200.0	2,168.2	2,206.1	2,190.2	7.0	5.6	-151.02	-127.5	-110.2	206.2	196.6	9.65	21.364		
2,300.0	2,265.2	2,305.5	2,288.3	7.4	5.9	-150.87	-136.6	-123.2	217.5	207.2	10.20	21.316		
2,400.0	2,362.2	2,404.8	2,386.4	7.9	6.2	-150.74	-145.6	-136.2	228.7	217.9	10.75	21.270		
2,500.0	2,459.2	2,504.2	2,484.4	8.4	6.5	-150.63	-154.7	-149.2	239.9	228.6	11.30	21.225		
2,600.0	2,556.3	2,603.6	2,582.5	8.8	6.9	-150.52	-163.8	-162.2	251.2	239.3	11.86	21.182		
2,700.0	2,653.3	2,702.9	2,680.6	9.3	7.2	-150.42	-172.8	-175.2	262.4	250.0	12.41	21.140		
2,800.0	2,750.3	2,802.3	2,778.7	9.7	7.5	-150.33	-181.9	-188.2	273.7	260.7	12.97	21.100		
2,900.0	2,847.3	2,901.6	2,876.8	10.2	7.8	-150.25	-191.0	-201.2	285.0	271.4	13.53	21.062		
3,000.0	2,944.3	3,001.0	2,974.9	10.7	8.2	-150.18	-200.0	-214.2	296.2	282.1	14.09	21.026		
3,100.0	3,041.3	3,100.4	3,073.0	11.1	8.5	-150.11	-209.1	-227.2	307.5	292.8	14.65	20.991		
3,200.0	3,138.3	3,199.7	3,171.1	11.6	8.8	-150.04	-218.1	-240.2	318.7	303.5	15.21	20.958		
3,300.0	3,235.4	3,299.1	3,269.2	12.1	9.1	-149.98	-227.2	-253.2	330.0	314.2	15.77	20.926		
3,400.0	3,332.4	3,398.5	3,367.3	12.5	9.5	-149.92	-236.3	-266.2	341.2	324.9	16.33	20.896		
3,500.0	3,429.4	3,497.8	3,465.4	13.0	9.8	-149.87	-245.3	-279.2	352.5	335.6	16.89	20.867		
3,600.0	3,526.4	3,597.2	3,563.5	13.5	10.1	-149.82	-254.4	-292.2	363.7	346.3	17.45	20.840		
3,700.0	3,623.4	3,696.6	3,661.6	13.9	10.4	-149.77	-263.5	-305.2	375.0	357.0	18.02	20.813		
3,800.0	3,720.4	3,795.9	3,759.6	14.4	10.8	-149.73	-272.5	-318.2	386.2	367.7	18.58	20.788		
3,900.0	3,817.4	3,895.3	3,857.7	14.9	11.1	-149.69	-281.6	-331.2	397.5	378.4	19.14	20.764		
4,000.0	3,914.5	3,994.7	3,955.8	15.3	11.4	-149.65	-290.6	-344.2	408.8	389.0	19.71	20.741		
4,100.0	4,011.5	4,094.0	4,053.9	15.8	11.8	-149.61	-299.7	-357.2	420.0	399.7	20.27	20.719		
4,200.0	4,108.5	4,193.4	4,152.0	16.3	12.1	-149.57	-308.8	-370.2	431.3	410.4	20.84	20.698		
4,300.0	4,205.5	4,292.7	4,250.1	16.7	12.4	-149.54	-317.8	-383.2	442.5	421.1	21.40	20.678		
4,400.0	4,302.5	4,392.1	4,348.2	17.2	12.7	-149.51	-326.9	-396.2	453.8	431.8	21.97	20.658		
4,500.0	4,399.5	4,491.5	4,446.3	17.7	13.1	-149.48	-336.0	-409.2	465.0	442.5	22.53	20.640		
4,600.0	4,496.6	4,590.8	4,544.4	18.1	13.4	-149.45	-345.0	-422.2	476.3	453.2	23.10	20.622		
4,700.0	4,593.6	4,690.2	4,642.5	18.6	13.7	-149.42	-354.1	-435.2	487.6	463.9	23.66	20.605		
4,800.0	4,690.6	4,789.6	4,740.6	19.1	14.0	-149.40	-363.1	-448.2	498.8	474.6	24.23	20.588 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 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3L-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	1.0	1.0	0.0	0.0	87.24	3.6	75.5	75.6					
100.0	100.0	101.0	101.0	0.2	0.2	87.24	3.6	75.5	75.6	75.3	0.31	247.605		
200.0	200.0	201.0	201.0	0.3	0.3	87.24	3.6	75.5	75.6	75.0	0.65	115.549 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	-169.80	3.6	75.5	76.5	75.5	1.00	76.219		
400.0	400.0	401.0	401.0	0.7	0.7	-170.13	3.6	75.5	79.1	77.7	1.35	58.465		
500.0	499.9	501.4	501.4	0.9	0.9	-170.54	3.5	75.4	83.2	81.5	1.70	48.880		
600.0	599.7	602.5	602.5	1.1	1.0	-170.45	2.3	74.1	87.8	85.8	2.05	42.788		
700.0	699.4	703.6	703.5	1.3	1.2	-169.83	-0.2	71.5	92.9	90.5	2.41	38.592		
800.0	798.9	804.7	804.5	1.5	1.4	-168.79	-3.9	67.6	98.3	95.5	2.76	35.553		
900.0	898.3	905.8	905.3	1.8	1.6	-167.40	-8.8	62.4	104.1	101.0	3.13	33.261		
1,000.0	997.4	1,006.9	1,006.1	2.0	1.8	-165.73	-14.9	55.9	110.5	107.0	3.51	31.470		
1,100.0	1,096.3	1,108.0	1,106.6	2.3	2.1	-163.84	-22.3	48.1	117.3	113.4	3.91	30.021		
1,200.0	1,194.9	1,207.7	1,205.6	2.7	2.3	-162.13	-30.1	39.8	125.4	121.1	4.32	29.030		
1,300.0	1,293.3	1,307.1	1,304.4	3.0	2.5	-160.86	-37.9	31.5	135.1	130.4	4.74	28.513		
1,400.0	1,391.2	1,406.5	1,403.1	3.4	2.8	-159.98	-45.7	23.2	146.6	141.4	5.17	28.363 SF		
1,500.0	1,488.9	1,505.6	1,501.5	3.8	3.0	-159.44	-53.5	14.9	159.7	154.1	5.60	28.502		
1,600.0	1,586.1	1,604.5	1,599.8	4.3	3.3	-159.18	-61.3	6.7	174.4	168.4	6.04	28.876		
1,700.0	1,683.1	1,703.3	1,697.9	4.7	3.5	-159.10	-69.1	-1.5	190.0	183.5	6.49	29.294		
1,800.0	1,780.1	1,802.1	1,796.0	5.1	3.8	-159.04	-76.9	-9.8	205.6	198.7	6.94	29.645		
1,900.0	1,877.2	1,900.8	1,894.2	5.6	4.0	-158.98	-84.6	-18.0	221.2	213.8	7.39	29.944		
2,000.0	1,974.2	1,999.6	1,992.3	6.1	4.3	-158.93	-92.4	-26.3	236.8	229.0	7.84	30.201		
2,100.0	2,071.2	2,098.4	2,090.4	6.5	4.6	-158.89	-100.2	-34.5	252.4	244.1	8.30	30.424		
2,200.0	2,168.2	2,197.2	2,188.5	7.0	4.8	-158.85	-108.0	-42.7	268.0	259.2	8.75	30.619		
2,300.0	2,265.2	2,295.9	2,286.7	7.4	5.1	-158.82	-115.7	-51.0	283.6	274.4	9.21	30.790		
2,400.0	2,362.2	2,394.7	2,384.8	7.9	5.3	-158.79	-123.5	-59.2	299.2	289.5	9.67	30.943		
2,500.0	2,459.2	2,493.5	2,482.9	8.4	5.6	-158.76	-131.3	-67.4	314.8	304.6	10.13	31.078		
2,600.0	2,556.3	2,592.3	2,581.0	8.8	5.9	-158.74	-139.1	-75.7	330.4	319.8	10.59	31.200		
2,700.0	2,653.3	2,691.0	2,679.2	9.3	6.1	-158.72	-146.8	-83.9	346.0	334.9	11.05	31.310		
2,800.0	2,750.3	2,789.8	2,777.3	9.7	6.4	-158.70	-154.6	-92.2	361.6	350.0	11.51	31.409		
2,900.0	2,847.3	2,888.6	2,875.4	10.2	6.6	-158.68	-162.4	-100.4	377.2	365.2	11.97	31.500		
3,000.0	2,944.3	2,987.4	2,973.5	10.7	6.9	-158.66	-170.1	-108.6	392.7	380.3	12.44	31.582		
3,100.0	3,041.3	3,086.1	3,071.7	11.1	7.2	-158.65	-177.9	-116.9	408.3	395.4	12.90	31.658		
3,200.0	3,138.3	3,184.9	3,169.8	11.6	7.4	-158.63	-185.7	-125.1	423.9	410.6	13.36	31.727		
3,300.0	3,235.4	3,283.7	3,267.9	12.1	7.7	-158.62	-193.5	-133.3	439.5	425.7	13.83	31.791		
3,400.0	3,332.4	3,382.5	3,366.0	12.5	7.9	-158.61	-201.2	-141.6	455.1	440.8	14.29	31.850		
3,500.0	3,429.4	3,481.3	3,464.2	13.0	8.2	-158.59	-209.0	-149.8	470.7	456.0	14.75	31.905		
3,600.0	3,526.4	3,580.0	3,562.3	13.5	8.5	-158.58	-216.8	-158.0	486.3	471.1	15.22	31.956		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3M-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	92.3	92.3					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	92.3	92.3	92.0	0.31	302.277		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	92.3	92.3	91.7	0.65	141.060		
200.6	200.6	201.6	201.6	0.3	0.3	-166.93	0.0	92.3	92.3	91.7	0.66	140.580 CC, ES		
300.0	300.0	301.6	301.6	0.5	0.5	-166.53	-0.8	92.0	92.8	91.8	1.01	92.337		
400.0	400.0	402.2	402.1	0.7	0.7	-165.40	-3.3	91.0	94.4	93.1	1.36	69.416		
500.0	499.9	502.6	502.5	0.9	0.9	-163.59	-7.4	89.3	97.2	95.4	1.72	56.380		
600.0	599.7	603.0	602.7	1.1	1.1	-161.25	-13.1	87.0	101.1	99.0	2.10	48.178		
700.0	699.4	703.2	702.6	1.3	1.3	-158.49	-20.5	84.0	106.4	104.0	2.49	42.701		
800.0	798.9	803.0	801.9	1.5	1.5	-155.67	-29.1	80.6	113.3	110.4	2.90	39.038		
900.0	898.3	902.5	901.0	1.8	1.7	-153.49	-37.7	77.1	122.0	118.6	3.32	36.696		
1,000.0	997.4	1,001.9	1,000.0	2.0	2.0	-151.94	-46.4	73.6	132.3	128.5	3.75	35.236		
1,100.0	1,096.3	1,101.2	1,098.8	2.3	2.2	-150.93	-55.1	70.1	144.2	140.0	4.19	34.385		
1,200.0	1,194.9	1,200.3	1,197.4	2.7	2.4	-150.39	-63.7	66.6	157.6	153.0	4.64	33.973		
1,300.0	1,293.3	1,299.1	1,295.9	3.0	2.7	-150.20	-72.3	63.1	172.6	167.5	5.09	33.888 SF		
1,400.0	1,391.2	1,397.8	1,394.1	3.4	2.9	-150.29	-80.9	59.6	189.0	183.5	5.55	34.059		
1,500.0	1,488.9	1,496.1	1,492.0	3.8	3.1	-150.58	-89.5	56.1	207.0	201.0	6.01	34.435		
1,600.0	1,586.1	1,594.2	1,589.6	4.3	3.4	-151.03	-98.0	52.7	226.4	220.0	6.47	34.978		
1,700.0	1,683.1	1,692.1	1,687.1	4.7	3.6	-151.59	-106.6	49.2	246.7	239.8	6.94	35.544		
1,800.0	1,780.1	1,790.0	1,784.6	5.1	3.8	-152.07	-115.1	45.8	267.0	259.6	7.41	36.037		
1,900.0	1,877.2	1,887.9	1,882.0	5.6	4.1	-152.48	-123.6	42.3	287.3	279.5	7.88	36.474		
2,000.0	1,974.2	1,985.8	1,979.5	6.1	4.3	-152.83	-132.2	38.9	307.7	299.3	8.35	36.863		
2,100.0	2,071.2	2,083.7	2,076.9	6.5	4.5	-153.15	-140.7	35.4	328.0	319.2	8.81	37.211		
2,200.0	2,168.2	2,181.6	2,174.4	7.0	4.8	-153.42	-149.2	32.0	348.3	339.1	9.28	37.525		
2,300.0	2,265.2	2,279.5	2,271.9	7.4	5.0	-153.67	-157.8	28.5	368.7	358.9	9.75	37.810		
2,400.0	2,362.2	2,377.4	2,369.3	7.9	5.2	-153.88	-166.3	25.1	389.0	378.8	10.22	38.069		
2,500.0	2,459.2	2,475.3	2,466.8	8.4	5.5	-154.08	-174.8	21.6	409.4	398.7	10.69	38.306		
2,600.0	2,556.3	2,573.2	2,564.3	8.8	5.7	-154.26	-183.4	18.2	429.8	418.6	11.16	38.523		
2,700.0	2,653.3	2,671.1	2,661.7	9.3	5.9	-154.42	-191.9	14.7	450.1	438.5	11.62	38.724		
2,800.0	2,750.3	2,769.0	2,759.2	9.7	6.2	-154.57	-200.4	11.3	470.5	458.4	12.09	38.909		
2,900.0	2,847.3	2,866.9	2,856.6	10.2	6.4	-154.71	-209.0	7.8	490.9	478.3	12.56	39.081		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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	87.81	3.6	95.1	95.2					
100.0	100.0	101.0	101.0	0.2	0.2	87.81	3.6	95.1	95.2	94.9	0.31	311.665		
200.0	200.0	201.0	201.0	0.3	0.3	87.81	3.6	95.1	95.2	94.5	0.65	145.444 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	-169.22	3.6	95.1	96.0	95.0	1.00	95.715		
400.0	400.0	400.7	400.7	0.7	0.7	-168.99	2.8	95.3	98.8	97.4	1.35	73.017		
500.0	499.9	500.3	500.2	0.9	0.9	-168.01	0.2	95.8	103.5	101.8	1.70	60.696		
600.0	599.7	599.6	599.5	1.1	1.0	-166.43	-4.0	96.7	110.3	108.2	2.06	53.425		
700.0	699.4	698.7	698.4	1.3	1.2	-164.43	-10.0	97.8	119.2	116.8	2.43	48.987		
800.0	798.9	797.4	796.8	1.5	1.4	-162.21	-17.5	99.4	130.4	127.6	2.82	46.289		
900.0	898.3	896.1	895.1	1.8	1.7	-160.01	-26.4	101.1	143.8	140.6	3.21	44.764		
1,000.0	997.4	994.9	993.4	2.0	1.9	-158.35	-35.5	103.0	159.0	155.4	3.62	43.978		
1,100.0	1,096.3	1,093.4	1,091.5	2.3	2.1	-157.19	-44.6	104.8	175.9	171.9	4.03	43.696 SF		
1,200.0	1,194.9	1,191.6	1,189.3	2.7	2.3	-156.42	-53.6	106.6	194.5	190.0	4.44	43.770		
1,300.0	1,293.3	1,289.6	1,286.8	3.0	2.6	-155.95	-62.6	108.4	214.6	209.7	4.87	44.105		
1,400.0	1,391.2	1,387.2	1,384.0	3.4	2.8	-155.73	-71.6	110.2	236.3	231.0	5.29	44.640		
1,500.0	1,488.9	1,484.4	1,480.8	3.8	3.0	-155.68	-80.5	112.0	259.5	253.8	5.73	45.330		
1,600.0	1,586.1	1,581.3	1,577.2	4.3	3.2	-155.76	-89.4	113.8	284.3	278.2	6.16	46.146		
1,700.0	1,683.1	1,678.0	1,673.5	4.7	3.5	-155.99	-98.3	115.5	309.9	303.3	6.61	46.908		
1,800.0	1,780.1	1,774.6	1,769.7	5.1	3.7	-156.19	-107.2	117.3	335.5	328.5	7.05	47.562		
1,900.0	1,877.2	1,871.3	1,865.9	5.6	3.9	-156.36	-116.1	119.1	361.2	353.7	7.50	48.131		
2,000.0	1,974.2	1,967.9	1,962.2	6.1	4.2	-156.50	-125.0	120.9	386.8	378.8	7.95	48.631		
2,100.0	2,071.2	2,064.6	2,058.4	6.5	4.4	-156.63	-133.9	122.7	412.4	404.0	8.40	49.073		
2,200.0	2,168.2	2,161.2	2,154.6	7.0	4.6	-156.74	-142.7	124.4	438.0	429.2	8.86	49.466		
2,300.0	2,265.2	2,257.9	2,250.9	7.4	4.8	-156.84	-151.6	126.2	463.7	454.4	9.31	49.819		
2,400.0	2,362.2	2,354.6	2,347.1	7.9	5.1	-156.93	-160.5	128.0	489.3	479.5	9.76	50.137		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3O-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	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		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	100.7	100.7	100.1	0.65	153.887 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-166.94	-0.2	100.9	101.7	100.7	1.00	101.526		
400.0	400.0	399.2	399.2	0.7	0.7	-166.51	-1.5	101.9	105.4	104.0	1.35	77.997		
500.0	499.9	497.8	497.8	0.9	0.9	-165.65	-4.2	104.1	111.8	110.1	1.70	65.689		
600.0	599.7	596.1	595.9	1.1	1.0	-164.48	-8.2	107.3	121.0	119.0	2.06	58.830		
700.0	699.4	693.9	693.4	1.3	1.2	-163.14	-13.4	111.5	133.2	130.7	2.42	55.029		
800.0	798.9	791.0	790.2	1.5	1.5	-161.74	-19.9	116.7	148.1	145.3	2.79	53.100		
900.0	898.3	887.5	886.2	1.8	1.7	-160.37	-27.6	122.9	166.0	162.8	3.17	52.380 SF		
1,000.0	997.4	985.1	983.1	2.0	1.9	-159.18	-36.3	129.8	186.3	182.7	3.56	52.384		
1,100.0	1,096.3	1,082.6	1,080.0	2.3	2.2	-158.39	-44.9	136.7	208.2	204.2	3.95	52.735		
1,200.0	1,194.9	1,179.8	1,176.6	2.7	2.4	-157.88	-53.5	143.6	231.7	227.4	4.34	53.334		
1,300.0	1,293.3	1,276.6	1,272.8	3.0	2.7	-157.60	-62.1	150.5	256.8	252.1	4.75	54.115		
1,400.0	1,391.2	1,373.0	1,368.5	3.4	2.9	-157.48	-70.6	157.3	283.5	278.3	5.15	55.032		
1,500.0	1,488.9	1,468.9	1,463.8	3.8	3.2	-157.49	-79.1	164.2	311.7	306.1	5.56	56.057		
1,600.0	1,586.1	1,564.4	1,558.7	4.3	3.4	-157.59	-87.6	170.9	341.5	335.5	5.97	57.167		
1,700.0	1,683.1	1,659.5	1,653.2	4.7	3.6	-157.82	-96.0	177.7	372.1	365.7	6.40	58.154		
1,800.0	1,780.1	1,754.7	1,747.8	5.1	3.9	-158.02	-104.4	184.5	402.7	395.8	6.82	59.005		
1,900.0	1,877.2	1,849.9	1,842.4	5.6	4.1	-158.19	-112.9	191.2	433.3	426.0	7.25	59.747		
2,000.0	1,974.2	1,945.1	1,937.0	6.1	4.4	-158.35	-121.3	198.0	463.9	456.2	7.68	60.401		
2,100.0	2,071.2	2,040.3	2,031.6	6.5	4.6	-158.48	-129.7	204.7	494.5	486.4	8.11	60.981		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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	88.04	3.6	106.3	106.4					
100.0	100.0	101.0	101.0	0.2	0.2	88.04	3.6	106.3	106.4	106.1	0.31	348.281		
166.3	166.3	167.3	167.3	0.3	0.3	88.04	3.6	106.3	106.4	105.8	0.54	198.106 CC		
200.0	200.0	201.0	201.0	0.3	0.3	88.04	3.6	106.3	106.4	105.7	0.65	162.536 ES		
300.0	300.0	300.0	300.0	0.5	0.5	-168.68	3.1	107.0	107.9	106.9	1.00	107.680		
400.0	400.0	398.0	397.9	0.7	0.7	-168.10	1.6	109.0	112.5	111.1	1.35	83.353		
500.0	499.9	496.1	496.0	0.9	0.9	-167.24	-1.0	112.4	120.1	118.4	1.70	70.660		
600.0	599.7	593.8	593.5	1.1	1.1	-166.20	-4.6	117.0	130.8	128.8	2.05	63.708		
700.0	699.4	690.9	690.3	1.3	1.3	-165.08	-9.2	122.9	144.6	142.2	2.41	59.982		
800.0	798.9	787.4	786.3	1.5	1.5	-163.98	-14.7	130.1	161.4	158.7	2.77	58.236		
900.0	898.3	883.0	881.3	1.8	1.7	-162.93	-21.2	138.5	181.3	178.2	3.14	57.778 SF		
1,000.0	997.4	977.6	975.2	2.0	2.0	-161.97	-28.6	148.0	204.3	200.8	3.51	58.188		
1,100.0	1,096.3	1,071.3	1,067.9	2.3	2.3	-161.10	-36.8	158.6	230.2	226.3	3.89	59.221		
1,200.0	1,194.9	1,167.2	1,162.8	2.7	2.5	-160.41	-45.6	170.1	258.3	254.0	4.27	60.450		
1,300.0	1,293.3	1,262.7	1,257.1	3.0	2.8	-159.95	-54.4	181.5	288.0	283.4	4.66	61.775		
1,400.0	1,391.2	1,357.7	1,351.0	3.4	3.1	-159.66	-63.2	192.8	319.3	314.3	5.06	63.162		
1,500.0	1,488.9	1,452.1	1,444.4	3.8	3.4	-159.50	-71.9	204.0	352.2	346.7	5.45	64.593		
1,600.0	1,586.1	1,546.0	1,537.2	4.3	3.7	-159.43	-80.5	215.2	386.6	380.7	5.85	66.056		
1,700.0	1,683.1	1,639.6	1,629.8	4.7	4.0	-159.53	-89.2	226.4	421.8	415.5	6.27	67.313		
1,800.0	1,780.1	1,733.2	1,722.3	5.1	4.3	-159.62	-97.8	237.6	457.0	450.3	6.68	68.392		
1,900.0	1,877.2	1,826.8	1,814.8	5.6	4.6	-159.69	-106.4	248.7	492.2	485.1	7.10	69.331		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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		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)						
2,700.0	2,653.3	2,626.3	2,626.3	9.3	4.6	22.44	-25.5	-902.0	482.0	471.9	10.11	47.689		
2,800.0	2,750.3	2,723.3	2,723.3	9.7	4.8	23.58	-25.5	-902.0	459.6	449.0	10.60	43.355		
2,900.0	2,847.3	2,820.3	2,820.3	10.2	4.9	24.85	-25.5	-902.0	437.3	426.2	11.12	39.342		
3,000.0	2,944.3	2,917.3	2,917.3	10.7	5.1	26.25	-25.5	-902.0	415.3	403.7	11.66	35.622		
3,100.0	3,041.3	3,014.3	3,014.3	11.1	5.3	27.80	-25.5	-902.0	393.6	381.3	12.23	32.171		
3,200.0	3,138.3	3,111.3	3,111.3	11.6	5.4	29.53	-25.5	-902.0	372.2	359.3	12.85	28.970		
3,300.0	3,235.4	3,208.4	3,208.4	12.1	5.6	31.46	-25.5	-902.0	351.1	337.6	13.50	26.005		
3,400.0	3,332.4	3,305.4	3,305.4	12.5	5.8	33.64	-25.5	-902.0	330.5	316.3	14.21	23.263		
3,500.0	3,429.4	3,402.4	3,402.4	13.0	5.9	36.09	-25.5	-902.0	310.4	295.4	14.97	20.736		
3,600.0	3,526.4	3,499.4	3,499.4	13.5	6.1	38.88	-25.5	-902.0	290.9	275.1	15.80	18.418		
3,700.0	3,623.4	3,596.4	3,596.4	13.9	6.3	42.04	-25.5	-902.0	272.2	255.5	16.69	16.306		
3,800.0	3,720.4	3,693.4	3,693.4	14.4	6.4	45.64	-25.5	-902.0	254.5	236.8	17.67	14.400		
3,900.0	3,817.4	3,790.4	3,790.4	14.9	6.6	49.75	-25.5	-902.0	237.9	219.1	18.73	12.703		
4,000.0	3,914.5	3,887.5	3,887.5	15.3	6.8	54.42	-25.5	-902.0	222.7	202.8	19.85	11.217		
4,100.0	4,011.5	3,984.5	3,984.5	15.8	7.0	59.71	-25.5	-902.0	209.2	188.2	21.03	9.949		
4,200.0	4,108.5	4,081.5	4,081.5	16.3	7.1	65.64	-25.5	-902.0	197.8	175.6	22.22	8.902		
4,300.0	4,205.5	4,178.5	4,178.5	16.7	7.3	72.18	-25.5	-902.0	188.8	165.4	23.37	8.079		
4,400.0	4,302.5	4,275.5	4,275.5	17.2	7.5	79.23	-25.5	-902.0	182.6	158.2	24.41	7.482		
4,500.0	4,399.5	4,372.5	4,372.5	17.7	7.6	86.63	-25.5	-902.0	179.6	154.3	25.27	7.106		
4,544.9	4,443.1	4,416.1	4,416.1	17.9	7.7	90.00	-25.5	-902.0	179.2	153.6	25.58	7.007 CC, ES		
4,600.0	4,496.6	4,469.6	4,469.6	18.1	7.8	94.14	-25.5	-902.0	179.7	153.8	25.89	6.941 SF		
4,700.0	4,593.6	4,566.6	4,566.6	18.6	8.0	101.51	-25.5	-902.0	183.1	156.9	26.26	6.974		
4,800.0	4,690.6	4,663.6	4,663.6	19.1	8.1	108.52	-25.5	-902.0	189.6	163.2	26.40	7.183		
4,900.0	4,787.6	4,760.6	4,760.6	19.5	8.3	114.99	-25.5	-902.0	198.8	172.5	26.35	7.547		
5,000.0	4,884.6	4,857.6	4,857.6	20.0	8.5	120.86	-25.5	-902.0	210.5	184.3	26.18	8.041		
5,100.0	4,981.6	4,876.0	4,876.0	20.5	8.5	121.90	-25.5	-902.0	237.5	211.1	26.47	8.975		
5,200.0	5,078.6	4,876.0	4,876.0	20.9	8.5	121.90	-25.5	-902.0	297.0	270.1	26.87	11.052		
5,300.0	5,175.7	4,876.0	4,876.0	21.4	8.5	121.90	-25.5	-902.0	374.2	346.9	27.28	13.715		
5,400.0	5,272.7	4,876.0	4,876.0	21.9	8.5	121.90	-25.5	-902.0	460.2	432.5	27.69	16.620		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	64.14	185.8	383.3	425.9				
100.0	100.0	100.0	100.0	0.2	0.2	64.14	185.8	383.3	425.9	425.6	0.33	1,306.736	
200.0	200.0	200.0	200.0	0.3	0.3	64.14	185.8	383.3	425.9	425.3	0.67	631.393	CC, ES
300.0	300.0	300.0	300.0	0.5	0.5	167.24	185.8	383.3	426.8	425.8	1.02	417.115	
400.0	400.0	400.0	400.0	0.7	0.7	167.31	185.8	383.3	429.3	428.0	1.37	313.002	
500.0	499.9	499.9	499.9	0.9	0.9	167.43	185.8	383.3	433.6	431.9	1.72	252.077	
600.0	599.7	599.7	599.7	1.1	1.0	167.59	185.8	383.3	439.6	437.5	2.07	212.511	
700.0	699.4	699.4	699.4	1.3	1.2	167.79	185.8	383.3	447.2	444.8	2.42	185.068	
800.0	798.9	798.9	798.9	1.5	1.4	168.02	185.8	383.3	456.6	453.8	2.76	165.170	
900.0	898.3	898.3	898.3	1.8	1.6	168.29	185.8	383.3	467.7	464.6	3.11	150.288	
1,000.0	997.4	997.4	997.4	2.0	1.7	168.58	185.8	383.3	480.5	477.0	3.46	138.914	
1,100.0	1,096.3	1,096.3	1,096.3	2.3	1.9	168.89	185.8	383.3	495.0	491.2	3.80	130.089	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8140-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
2,100.0	2,071.2	2,061.2	2,061.2	6.5	3.6	-59.36	-539.9	-440.9	499.3	489.8	9.48	52.668		
2,200.0	2,168.2	2,158.2	2,158.2	7.0	3.8	-61.76	-539.9	-440.9	487.1	476.9	10.15	47.990		
2,300.0	2,265.2	2,255.2	2,255.2	7.4	3.9	-64.27	-539.9	-440.9	475.8	465.0	10.83	43.916		
2,400.0	2,362.2	2,352.2	2,352.2	7.9	4.1	-66.89	-539.9	-440.9	465.5	454.0	11.53	40.369		
2,500.0	2,459.2	2,449.2	2,449.2	8.4	4.3	-69.62	-539.9	-440.9	456.3	444.0	12.24	37.285		
2,600.0	2,556.3	2,546.3	2,546.3	8.8	4.4	-72.45	-539.9	-440.9	448.2	435.2	12.95	34.611		
2,700.0	2,653.3	2,643.3	2,643.3	9.3	4.6	-75.37	-539.9	-440.9	441.3	427.6	13.66	32.300		
2,800.0	2,750.3	2,740.3	2,740.3	9.7	4.8	-78.37	-539.9	-440.9	435.6	421.2	14.37	30.314		
2,900.0	2,847.3	2,837.3	2,837.3	10.2	5.0	-81.43	-539.9	-440.9	431.2	416.2	15.07	28.617		
3,000.0	2,944.3	2,934.3	2,934.3	10.7	5.1	-84.55	-539.9	-440.9	428.2	412.4	15.75	27.181		
3,100.0	3,041.3	3,031.3	3,031.3	11.1	5.3	-87.70	-539.9	-440.9	426.5	410.1	16.42	25.977		
3,172.8	3,112.0	3,102.0	3,102.0	11.5	5.4	-90.00	-539.9	-440.9	426.1	409.2	16.89	25.234 CC		
3,200.0	3,138.3	3,128.3	3,128.3	11.6	5.5	-90.86	-539.9	-440.9	426.2	409.1	17.06	24.984 ES		
3,300.0	3,235.4	3,225.4	3,225.4	12.1	5.6	-94.02	-539.9	-440.9	427.2	409.6	17.67	24.178		
3,400.0	3,332.4	3,322.4	3,322.4	12.5	5.8	-97.15	-539.9	-440.9	429.7	411.4	18.25	23.542		
3,500.0	3,429.4	3,419.4	3,419.4	13.0	6.0	-100.24	-539.9	-440.9	433.4	414.6	18.80	23.057		
3,600.0	3,526.4	3,516.4	3,516.4	13.5	6.1	-103.27	-539.9	-440.9	438.5	419.2	19.31	22.707		
3,700.0	3,623.4	3,613.4	3,613.4	13.9	6.3	-106.23	-539.9	-440.9	444.9	425.1	19.79	22.479		
3,800.0	3,720.4	3,710.4	3,710.4	14.4	6.5	-109.10	-539.9	-440.9	452.4	432.2	20.24	22.358		
3,900.0	3,817.4	3,807.4	3,807.4	14.9	6.6	-111.88	-539.9	-440.9	461.2	440.5	20.65	22.333 SF		
4,000.0	3,914.5	3,904.5	3,904.5	15.3	6.8	-114.55	-539.9	-440.9	471.0	449.9	21.03	22.393		
4,100.0	4,011.5	4,001.5	4,001.5	15.8	7.0	-117.11	-539.9	-440.9	481.8	460.4	21.39	22.527		
4,200.0	4,108.5	4,098.5	4,098.5	16.3	7.2	-119.56	-539.9	-440.9	493.6	471.9	21.72	22.726		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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		
2,400.0	2,362.2	2,473.1	2,433.5	7.9	7.9	-36.34	-433.1	-676.2	479.8	466.8	12.97	36.988		
2,500.0	2,459.2	2,568.6	2,525.6	8.4	8.3	-35.18	-408.9	-684.2	447.0	433.4	13.64	32.777		
2,600.0	2,556.3	2,658.8	2,612.5	8.8	8.8	-33.89	-386.4	-692.3	415.2	400.9	14.28	29.073		
2,700.0	2,653.3	2,752.3	2,702.6	9.3	9.2	-32.26	-363.0	-701.4	384.0	369.0	14.92	25.730		
2,800.0	2,750.3	2,844.4	2,791.3	9.7	9.7	-30.36	-340.0	-710.7	353.4	337.9	15.53	22.752		
2,900.0	2,847.3	2,937.8	2,881.5	10.2	10.1	-28.22	-317.8	-720.2	324.1	308.0	16.12	20.108		
3,000.0	2,944.3	3,032.0	2,972.3	10.7	10.6	-25.47	-294.6	-730.3	295.2	278.6	16.68	17.705		
3,100.0	3,041.3	3,122.7	3,059.5	11.1	11.1	-22.07	-272.1	-741.4	268.2	251.0	17.16	15.624		
3,200.0	3,138.3	3,214.6	3,147.7	11.6	11.5	-17.95	-250.0	-753.6	243.6	226.0	17.58	13.862		
3,300.0	3,235.4	3,310.6	3,240.4	12.1	12.0	-13.13	-228.3	-766.3	221.2	203.3	17.91	12.349		
3,400.0	3,332.4	3,408.0	3,334.6	12.5	12.5	-7.41	-206.6	-778.0	199.6	181.4	18.20	10.969		
3,500.0	3,429.4	3,501.3	3,425.0	13.0	12.9	-0.98	-186.5	-789.4	180.7	162.2	18.47	9.782		
3,600.0	3,526.4	3,598.5	3,519.4	13.5	13.3	6.77	-166.4	-801.4	165.0	146.1	18.86	8.746		
3,700.0	3,623.4	3,694.6	3,612.8	13.9	13.7	15.60	-146.9	-812.5	152.1	132.7	19.45	7.821		
3,800.0	3,720.4	3,791.7	3,707.3	14.4	14.2	25.72	-127.5	-823.7	143.5	123.3	20.22	7.100		
3,900.0	3,817.4	3,888.7	3,801.7	14.9	14.6	36.97	-107.6	-833.8	139.4	118.3	21.01	6.632		
3,928.0	3,844.6	3,915.5	3,827.8	15.0	14.7	40.11	-102.3	-836.5	139.1	117.9	21.21	6.559 CC, ES		
4,000.0	3,914.5	3,983.8	3,894.4	15.3	15.0	47.95	-88.8	-843.8	140.7	119.0	21.67	6.493 SF		
4,100.0	4,011.5	4,077.2	3,985.2	15.8	15.4	58.05	-69.8	-854.6	148.7	126.4	22.23	6.687		
4,200.0	4,108.5	4,170.8	4,075.8	16.3	15.9	66.97	-49.4	-866.4	162.9	140.1	22.86	7.126		
4,300.0	4,205.5	4,271.7	4,173.6	16.7	16.3	75.04	-27.7	-878.6	180.4	156.7	23.71	7.610		
4,400.0	4,302.5	4,370.3	4,269.9	17.2	16.7	81.59	-9.1	-889.1	197.6	172.9	24.73	7.993		
4,500.0	4,399.5	4,464.8	4,362.0	17.7	17.1	86.66	8.7	-899.9	217.1	191.3	25.80	8.413		
4,600.0	4,496.6	4,556.5	4,451.2	18.1	17.6	90.63	26.8	-911.2	239.1	212.2	26.86	8.903		
4,700.0	4,593.6	4,646.0	4,537.5	18.6	18.0	93.72	47.0	-923.2	264.9	237.0	27.86	9.508		
4,800.0	4,690.6	4,742.2	4,630.1	19.1	18.5	96.71	70.0	-935.0	292.8	263.9	28.88	10.138		
4,900.0	4,787.6	4,838.9	4,723.8	19.5	18.9	99.57	91.9	-944.9	319.8	289.9	29.88	10.703		
5,000.0	4,884.6	4,927.0	4,809.0	20.0	19.4	101.82	112.7	-953.6	348.5	317.7	30.80	11.314		
5,100.0	4,981.6	5,015.3	4,893.8	20.5	19.8	103.60	135.2	-963.2	379.5	347.8	31.68	11.977		
5,200.0	5,078.6	5,114.6	4,989.0	20.9	20.3	105.17	161.0	-974.8	411.1	378.6	32.58	12.621		
5,300.0	5,175.7	5,214.0	5,084.9	21.4	20.8	106.67	185.1	-985.5	441.4	408.0	33.46	13.195		
5,400.0	5,272.7	5,315.7	5,183.1	21.9	21.3	107.88	208.9	-997.5	471.1	436.7	34.33	13.721		
5,500.0	5,369.7	5,416.7	5,280.7	22.3	21.8	108.83	231.2	-1,010.5	499.4	464.2	35.19	14.191		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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	
8,100.0	7,378.0	7,441.8	7,391.3	37.3	18.1	-90.39	-1,222.3	-1,081.7	499.9	460.6	39.32	12.713	
8,200.0	7,378.0	7,441.8	7,391.3	38.3	18.1	-90.39	-1,222.3	-1,081.7	487.1	446.2	40.85	11.922	
8,213.5	7,378.0	7,441.8	7,391.3	38.4	18.1	-90.39	-1,222.3	-1,081.7	486.9	445.8	41.07	11.856 CC, ES	
8,300.0	7,378.0	7,441.7	7,391.3	39.4	18.1	-90.39	-1,222.3	-1,081.7	494.5	452.1	42.41	11.659 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3A-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3A-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 #2	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 3A-32H-K268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

