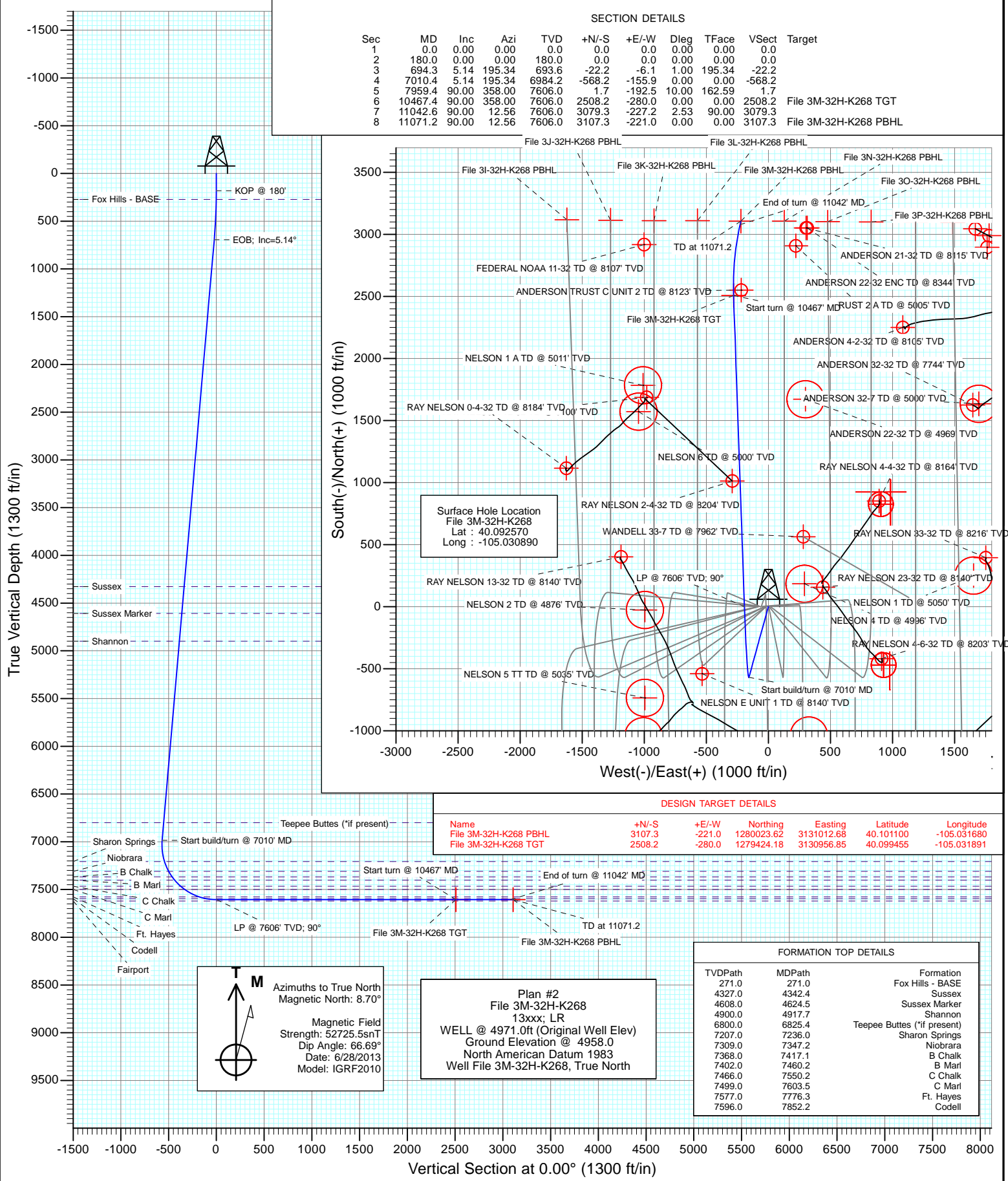




Project: DJ Wattenberg
 Site: S32-T2N-R68W (File/Hwy 52)
 Well: File 3M-32H-K268
 Wellbore: Hz
 Design: Plan #2



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	180.0	0.00	0.00	180.0	0.0	0.0	0.00	0.00	0.0	
3	694.3	5.14	195.34	693.6	-22.2	-6.1	1.00	195.34	-22.2	
4	7010.4	5.14	195.34	6984.2	-568.2	-155.9	0.00	0.00	-568.2	
5	7959.4	90.00	358.00	7606.0	1.7	-192.5	10.00	162.59	1.7	
6	10467.4	90.00	358.00	7606.0	2508.2	-280.0	0.00	0.00	2508.2	File 3M-32H-K268 TGT
7	11042.6	90.00	12.56	7606.0	3079.3	-227.2	2.53	90.00	3079.3	
8	11071.2	90.00	12.56	7606.0	3107.3	-221.0	0.00	0.00	3107.3	File 3M-32H-K268 PBHL

DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
File 3M-32H-K268 PBHL	3107.3	-221.0	1280023.62	3131012.68	40.101100	-105.031680
File 3M-32H-K268 TGT	2508.2	-280.0	1279424.18	3130956.85	40.099455	-105.031891

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
271.0	271.0	Fox Hills - BASE
4327.0	4342.4	Sussex
4608.0	4624.5	Sussex Marker
4900.0	4917.7	Shannon
6800.0	6825.4	Teepee Buttes ("if present)
7207.0	7236.0	Sharon Springs
7309.0	7347.2	Niobrara
7368.0	7417.1	B Chalk
7402.0	7460.2	B Marl
7466.0	7550.2	C Chalk
7499.0	7603.5	C Marl
7577.0	7776.3	Ft. Hayes
7596.0	7852.2	Codell

Plan #2
 File 3M-32H-K268
 13xxx; LR
 WELL @ 4971.0ft (Original Well Elev)
 Ground Elevation @ 4958.0
 North American Datum 1983
 Well File 3M-32H-K268, True North

Azimuths to True North
 Magnetic North: 8.70°
 Magnetic Field
 Strength: 52725.5nT
 Dip Angle: 66.69°
 Date: 6/28/2013
 Model: IGRF2010

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3M-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	File 3M-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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

Site S32-T2N-R68W (File/Hwy 52)			
Site Position:		Northing:	1,275,973.93 ft
From:	Lat/Long	Easting:	3,133,277.97 ft
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	40.089950
		Longitude:	-105.023660
		Grid Convergence:	0.31 °

Well File 3M-32H-K268			
Well Position	+N/-S	0.0 ft	Northing: 1,276,917.53 ft
	+E/-W	0.0 ft	Easting: 3,131,250.11 ft
Position Uncertainty		0.0 ft	Wellhead Elevation: ft
			Latitude: 40.092570
			Longitude: -105.030890
			Ground Level: 4,958.0 ft

Wellbore Hz					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	6/28/2013	8.71	66.69	52,726

Design Plan #2				
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
180.0	0.00	0.00	180.0	0.0	0.0	0.00	0.00	0.00	0.00	
694.3	5.14	195.34	693.6	-22.2	-6.1	1.00	1.00	0.00	195.34	
7,010.4	5.14	195.34	6,984.2	-568.2	-155.9	0.00	0.00	0.00	0.00	
7,959.4	90.00	358.00	7,606.0	1.7	-192.5	10.00	8.94	17.14	162.59	
10,467.4	90.00	358.00	7,606.0	2,508.2	-280.0	0.00	0.00	0.00	0.00	File 3M-32H-K268 TC
11,042.6	90.00	12.56	7,606.0	3,079.3	-227.2	2.53	0.00	2.53	90.00	
11,071.2	90.00	12.56	7,606.0	3,107.3	-221.0	0.00	0.00	0.00	0.00	File 3M-32H-K268 PB

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3M-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	File 3M-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	
180.0	0.00	0.00	180.0	0.0	0.0	0.0	0.00	0.00	KOP @ 180'
200.0	0.20	195.34	200.0	0.0	0.0	0.0	1.00	1.00	
271.0	0.91	195.34	271.0	-0.7	-0.2	-0.7	1.00	1.00	Fox Hills - BASE
300.0	1.20	195.34	300.0	-1.2	-0.3	-1.2	1.00	1.00	
400.0	2.20	195.34	399.9	-4.1	-1.1	-4.1	1.00	1.00	
500.0	3.20	195.34	499.8	-8.6	-2.4	-8.6	1.00	1.00	
600.0	4.20	195.34	599.6	-14.8	-4.1	-14.8	1.00	1.00	
694.3	5.14	195.34	693.6	-22.2	-6.1	-22.2	1.00	1.00	EOB; Inc=5.14°
700.0	5.14	195.34	699.3	-22.7	-6.2	-22.7	0.00	0.00	
800.0	5.14	195.34	798.9	-31.4	-8.6	-31.4	0.00	0.00	
900.0	5.14	195.34	898.5	-40.0	-11.0	-40.0	0.00	0.00	
1,000.0	5.14	195.34	998.1	-48.7	-13.4	-48.7	0.00	0.00	
1,100.0	5.14	195.34	1,097.7	-57.3	-15.7	-57.3	0.00	0.00	
1,200.0	5.14	195.34	1,197.3	-66.0	-18.1	-66.0	0.00	0.00	
1,300.0	5.14	195.34	1,296.9	-74.6	-20.5	-74.6	0.00	0.00	
1,400.0	5.14	195.34	1,396.5	-83.2	-22.8	-83.2	0.00	0.00	
1,500.0	5.14	195.34	1,496.1	-91.9	-25.2	-91.9	0.00	0.00	
1,600.0	5.14	195.34	1,595.7	-100.5	-27.6	-100.5	0.00	0.00	
1,700.0	5.14	195.34	1,695.3	-109.2	-30.0	-109.2	0.00	0.00	
1,800.0	5.14	195.34	1,794.9	-117.8	-32.3	-117.8	0.00	0.00	
1,900.0	5.14	195.34	1,894.5	-126.5	-34.7	-126.5	0.00	0.00	
2,000.0	5.14	195.34	1,994.1	-135.1	-37.1	-135.1	0.00	0.00	
2,100.0	5.14	195.34	2,093.7	-143.8	-39.4	-143.8	0.00	0.00	
2,200.0	5.14	195.34	2,193.2	-152.4	-41.8	-152.4	0.00	0.00	
2,300.0	5.14	195.34	2,292.8	-161.0	-44.2	-161.0	0.00	0.00	
2,400.0	5.14	195.34	2,392.4	-169.7	-46.6	-169.7	0.00	0.00	
2,500.0	5.14	195.34	2,492.0	-178.3	-48.9	-178.3	0.00	0.00	
2,600.0	5.14	195.34	2,591.6	-187.0	-51.3	-187.0	0.00	0.00	
2,700.0	5.14	195.34	2,691.2	-195.6	-53.7	-195.6	0.00	0.00	
2,800.0	5.14	195.34	2,790.8	-204.3	-56.0	-204.3	0.00	0.00	
2,900.0	5.14	195.34	2,890.4	-212.9	-58.4	-212.9	0.00	0.00	
3,000.0	5.14	195.34	2,990.0	-221.6	-60.8	-221.6	0.00	0.00	
3,100.0	5.14	195.34	3,089.6	-230.2	-63.2	-230.2	0.00	0.00	
3,200.0	5.14	195.34	3,189.2	-238.8	-65.5	-238.8	0.00	0.00	
3,300.0	5.14	195.34	3,288.8	-247.5	-67.9	-247.5	0.00	0.00	
3,400.0	5.14	195.34	3,388.4	-256.1	-70.3	-256.1	0.00	0.00	
3,500.0	5.14	195.34	3,488.0	-264.8	-72.6	-264.8	0.00	0.00	
3,600.0	5.14	195.34	3,587.6	-273.4	-75.0	-273.4	0.00	0.00	
3,700.0	5.14	195.34	3,687.2	-282.1	-77.4	-282.1	0.00	0.00	
3,800.0	5.14	195.34	3,786.8	-290.7	-79.8	-290.7	0.00	0.00	
3,900.0	5.14	195.34	3,886.4	-299.4	-82.1	-299.4	0.00	0.00	
4,000.0	5.14	195.34	3,986.0	-308.0	-84.5	-308.0	0.00	0.00	
4,100.0	5.14	195.34	4,085.6	-316.6	-86.9	-316.6	0.00	0.00	
4,200.0	5.14	195.34	4,185.2	-325.3	-89.2	-325.3	0.00	0.00	
4,300.0	5.14	195.34	4,284.8	-333.9	-91.6	-333.9	0.00	0.00	
4,342.4	5.14	195.34	4,327.0	-337.6	-92.6	-337.6	0.00	0.00	Sussex
4,400.0	5.14	195.34	4,384.4	-342.6	-94.0	-342.6	0.00	0.00	
4,500.0	5.14	195.34	4,484.0	-351.2	-96.4	-351.2	0.00	0.00	
4,600.0	5.14	195.34	4,583.6	-359.9	-98.7	-359.9	0.00	0.00	
4,624.5	5.14	195.34	4,608.0	-362.0	-99.3	-362.0	0.00	0.00	Sussex Marker

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3M-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	File 3M-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
4,700.0	5.14	195.34	4,683.2	-368.5	-101.1	-368.5	0.00	0.00	
4,800.0	5.14	195.34	4,782.8	-377.2	-103.5	-377.2	0.00	0.00	
4,900.0	5.14	195.34	4,882.4	-385.8	-105.8	-385.8	0.00	0.00	
4,917.7	5.14	195.34	4,900.0	-387.3	-106.3	-387.3	0.00	0.00	Shannon
5,000.0	5.14	195.34	4,982.0	-394.4	-108.2	-394.4	0.00	0.00	
5,100.0	5.14	195.34	5,081.6	-403.1	-110.6	-403.1	0.00	0.00	
5,200.0	5.14	195.34	5,181.2	-411.7	-113.0	-411.7	0.00	0.00	
5,300.0	5.14	195.34	5,280.8	-420.4	-115.3	-420.4	0.00	0.00	
5,400.0	5.14	195.34	5,380.4	-429.0	-117.7	-429.0	0.00	0.00	
5,500.0	5.14	195.34	5,480.0	-437.7	-120.1	-437.7	0.00	0.00	
5,600.0	5.14	195.34	5,579.6	-446.3	-122.4	-446.3	0.00	0.00	
5,700.0	5.14	195.34	5,679.2	-455.0	-124.8	-455.0	0.00	0.00	
5,800.0	5.14	195.34	5,778.8	-463.6	-127.2	-463.6	0.00	0.00	
5,900.0	5.14	195.34	5,878.4	-472.2	-129.6	-472.2	0.00	0.00	
6,000.0	5.14	195.34	5,978.0	-480.9	-131.9	-480.9	0.00	0.00	
6,100.0	5.14	195.34	6,077.5	-489.5	-134.3	-489.5	0.00	0.00	
6,200.0	5.14	195.34	6,177.1	-498.2	-136.7	-498.2	0.00	0.00	
6,300.0	5.14	195.34	6,276.7	-506.8	-139.0	-506.8	0.00	0.00	
6,400.0	5.14	195.34	6,376.3	-515.5	-141.4	-515.5	0.00	0.00	
6,500.0	5.14	195.34	6,475.9	-524.1	-143.8	-524.1	0.00	0.00	
6,600.0	5.14	195.34	6,575.5	-532.8	-146.2	-532.8	0.00	0.00	
6,700.0	5.14	195.34	6,675.1	-541.4	-148.5	-541.4	0.00	0.00	
6,800.0	5.14	195.34	6,774.7	-550.0	-150.9	-550.0	0.00	0.00	
6,825.4	5.14	195.34	6,800.0	-552.2	-151.5	-552.2	0.00	0.00	Teepee Buttes (*if present)
6,900.0	5.14	195.34	6,874.3	-558.7	-153.3	-558.7	0.00	0.00	
7,000.0	5.14	195.34	6,973.9	-567.3	-155.6	-567.3	0.00	0.00	
7,010.4	5.14	195.34	6,984.2	-568.2	-155.9	-568.2	0.00	0.00	Start build/turn @ 7010' MD
7,100.0	4.34	337.28	7,073.8	-569.0	-158.3	-569.0	10.00	-0.90	
7,200.0	14.14	351.89	7,172.4	-553.4	-161.4	-553.4	10.00	9.80	
7,236.0	17.72	353.19	7,207.0	-543.6	-162.7	-543.6	10.00	9.95	Sharon Springs
7,300.0	24.10	354.56	7,266.7	-520.9	-165.1	-520.9	10.00	9.97	
7,347.2	28.82	355.21	7,309.0	-499.9	-167.0	-499.9	10.00	9.98	Niobrara
7,400.0	34.09	355.73	7,354.0	-472.5	-169.1	-472.5	10.00	9.99	
7,417.1	35.79	355.87	7,368.0	-462.7	-169.9	-462.7	10.00	9.99	B Chalk
7,460.2	40.10	356.17	7,402.0	-436.3	-171.7	-436.3	10.00	9.99	B Marl
7,500.0	44.08	356.41	7,431.5	-409.7	-173.4	-409.7	10.00	9.99	
7,550.2	49.07	356.67	7,466.0	-373.3	-175.6	-373.3	9.96	9.96	C Chalk
7,600.0	54.07	356.89	7,496.9	-334.3	-177.8	-334.3	10.04	10.03	
7,603.5	54.42	356.90	7,499.0	-331.5	-178.0	-331.5	10.00	9.99	C Marl
7,700.0	64.07	357.25	7,548.3	-248.8	-182.2	-248.8	10.00	10.00	
7,776.3	71.70	357.49	7,577.0	-178.2	-185.4	-178.2	10.00	10.00	Ft. Hayes
7,800.0	74.06	357.56	7,584.0	-155.6	-186.4	-155.6	10.00	10.00	
7,852.2	79.28	357.71	7,596.0	-104.8	-188.5	-104.8	10.00	10.00	Codell
7,900.0	84.06	357.84	7,602.9	-57.6	-190.3	-57.6	10.00	10.00	
7,959.4	90.00	358.00	7,606.0	1.7	-192.5	1.7	10.00	10.00	LP @ 7606' TVD; 90°
8,000.0	90.00	358.00	7,606.0	42.2	-193.9	42.2	0.00	0.00	
8,100.0	90.00	358.00	7,606.0	142.2	-197.4	142.2	0.00	0.00	
8,200.0	90.00	358.00	7,606.0	242.1	-200.9	242.1	0.00	0.00	
8,300.0	90.00	358.00	7,606.0	342.0	-204.4	342.0	0.00	0.00	
8,400.0	90.00	358.00	7,606.0	442.0	-207.8	442.0	0.00	0.00	
8,500.0	90.00	358.00	7,606.0	541.9	-211.3	541.9	0.00	0.00	
8,600.0	90.00	358.00	7,606.0	641.9	-214.8	641.9	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3M-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	File 3M-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
8,700.0	90.00	358.00	7,606.0	741.8	-218.3	741.8	0.00	0.00	
8,800.0	90.00	358.00	7,606.0	841.7	-221.8	841.7	0.00	0.00	
8,900.0	90.00	358.00	7,606.0	941.7	-225.3	941.7	0.00	0.00	
9,000.0	90.00	358.00	7,606.0	1,041.6	-228.8	1,041.6	0.00	0.00	
9,100.0	90.00	358.00	7,606.0	1,141.6	-232.3	1,141.6	0.00	0.00	
9,200.0	90.00	358.00	7,606.0	1,241.5	-235.8	1,241.5	0.00	0.00	
9,300.0	90.00	358.00	7,606.0	1,341.4	-239.3	1,341.4	0.00	0.00	
9,400.0	90.00	358.00	7,606.0	1,441.4	-242.7	1,441.4	0.00	0.00	
9,500.0	90.00	358.00	7,606.0	1,541.3	-246.2	1,541.3	0.00	0.00	
9,600.0	90.00	358.00	7,606.0	1,641.3	-249.7	1,641.3	0.00	0.00	
9,700.0	90.00	358.00	7,606.0	1,741.2	-253.2	1,741.2	0.00	0.00	
9,800.0	90.00	358.00	7,606.0	1,841.1	-256.7	1,841.1	0.00	0.00	
9,900.0	90.00	358.00	7,606.0	1,941.1	-260.2	1,941.1	0.00	0.00	
10,000.0	90.00	358.00	7,606.0	2,041.0	-263.7	2,041.0	0.00	0.00	
10,100.0	90.00	358.00	7,606.0	2,140.9	-267.2	2,140.9	0.00	0.00	
10,200.0	90.00	358.00	7,606.0	2,240.9	-270.7	2,240.9	0.00	0.00	
10,300.0	90.00	358.00	7,606.0	2,340.8	-274.2	2,340.8	0.00	0.00	
10,400.0	90.00	358.00	7,606.0	2,440.8	-277.6	2,440.8	0.00	0.00	
10,467.4	90.00	358.00	7,606.0	2,508.2	-280.0	2,508.2	0.00	0.00	Start turn @ 10467' MD - File 3M-32H-K268 TC
10,500.0	90.00	358.82	7,606.0	2,540.7	-280.9	2,540.7	2.53	0.00	
10,600.0	90.00	1.36	7,606.0	2,640.7	-280.7	2,640.7	2.53	0.00	
10,700.0	90.00	3.89	7,606.0	2,740.6	-276.2	2,740.6	2.53	0.00	
10,800.0	90.00	6.42	7,606.0	2,840.2	-267.2	2,840.2	2.53	0.00	
10,900.0	90.00	8.95	7,606.0	2,939.3	-253.8	2,939.3	2.53	0.00	
11,000.0	90.00	11.48	7,606.0	3,037.7	-236.1	3,037.7	2.53	0.00	
11,042.6	90.00	12.56	7,606.0	3,079.3	-227.2	3,079.3	2.53	0.00	End of turn @ 11042' MD
11,071.2	90.00	12.56	7,606.0	3,107.3	-221.0	3,107.3	0.00	0.00	TD at 11071.2 - File 3M-32H-K268 PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
File 3M-32H-K268 PBHL - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,606.0	3,107.3	-221.0	1,280,023.62	3,131,012.68	40.101100	-105.031680
File 3M-32H-K268 TGT - plan hits target center - Point	0.00	0.00	7,606.0	2,508.2	-280.0	1,279,424.18	3,130,956.85	40.099455	-105.031891

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3M-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	File 3M-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
271.0	271.0	Fox Hills - BASE				
4,342.4	4,327.0	Sussex				
4,624.5	4,608.0	Sussex Marker				
4,917.7	4,900.0	Shannon				
6,825.4	6,800.0	Teepee Buttes (*if present)				
7,236.0	7,207.0	Sharon Springs				
7,347.2	7,309.0	Niobrara				
7,417.1	7,368.0	B Chalk				
7,460.2	7,402.0	B Marl				
7,550.2	7,466.0	C Chalk				
7,603.5	7,499.0	C Marl				
7,776.3	7,577.0	Ft. Hayes				
7,852.2	7,596.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			Comment
		+N/-S (ft)	+E/-W (ft)		
180.0	180.0	0.0	0.0		KOP @ 180'
694.3	693.6	-22.2	-6.1		EOB; Inc=5.14°
7,010.4	6,984.2	-568.2	-155.9		Start build/turn @ 7010' MD
7,959.4	7,606.0	1.7	-192.5		LP @ 7606' TVD; 90°
10,467.4	7,606.0	2,508.2	-280.0		Start turn @ 10467' MD
11,042.6	7,606.0	3,079.3	-227.2		End of turn @ 11042' MD
11,071.2	7,606.0	3,107.3	-221.0		TD at 11071.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File/Hwy 52)

File 3M-32H-K268

Hz

Plan #2

Anticollision Report

09 July, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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	11,071.2	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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
Offset Well - Wellbore - Design						
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	10,509.7	7,001.0	62.6	1.8	1.030	Level 2, CC, ES, SF
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 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						Out of range
BULTHAUP 40-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
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 3A-32H-K268 - Hz - Plan #2	209.0	207.8	92.3	91.6	135.309	CC, ES
File 3A-32H-K268 - Hz - Plan #2	1,300.0	1,273.1	179.6	174.6	35.553	SF
File 3B-32H-K268 - Hz - Plan #1	332.2	330.7	86.5	85.3	77.547	CC, ES
File 3B-32H-K268 - Hz - Plan #1	1,100.0	1,081.3	141.5	137.4	34.590	SF
File 3C-32H-K268 - Hz - Plan #1	456.6	454.8	79.9	78.3	51.153	CC
File 3C-32H-K268 - Hz - Plan #1	500.0	497.6	80.0	78.3	46.559	ES
File 3C-32H-K268 - Hz - Plan #1	1,200.0	1,185.2	127.1	122.5	27.801	SF
File 3D-32H-K268 - Hz - Plan #1	529.2	527.6	74.1	72.3	40.481	CC, ES
File 3D-32H-K268 - Hz - Plan #1	1,000.0	989.9	100.1	96.5	27.350	SF
File 3E-32H-K268 - Hz - Plan #1	604.5	604.1	59.4	57.2	28.027	CC, ES
File 3E-32H-K268 - Hz - Plan #1	7,441.8	7,700.1	181.9	151.2	5.917	SF
File 3F-32H-K268 - Hz - Plan #1	539.9	539.6	54.9	53.0	29.315	CC
File 3F-32H-K268 - Hz - Plan #1	600.0	599.6	55.1	53.0	26.227	ES
File 3F-32H-K268 - Hz - Plan #1	7,700.0	7,699.0	169.4	141.2	6.013	SF
File 3G-32H-K268 - Hz - Plan #1	765.7	766.5	46.4	43.6	16.925	CC
File 3G-32H-K268 - Hz - Plan #1	800.0	800.6	46.5	43.6	16.220	ES
File 3G-32H-K268 - Hz - Plan #1	7,300.0	7,664.1	454.8	423.1	14.360	SF
File 3H-32H-K268 - Hz - Plan #1	691.1	692.2	38.9	36.4	15.863	CC, ES
File 3H-32H-K268 - Hz - Plan #1	800.0	800.6	40.8	38.0	14.304	SF
File 3I-32H-K268 - Hz - Plan #2	208.0	208.0	30.8	30.1	45.179	CC, ES
File 3I-32H-K268 - Hz - Plan #2	800.0	795.9	54.4	51.4	18.436	SF
File 3J-32H-K268 - Hz - Plan #1	260.2	260.2	25.4	24.5	29.393	CC
File 3J-32H-K268 - Hz - Plan #1	300.0	299.8	25.5	24.5	25.414	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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
File 3J-32H-K268 - Hz - Plan #1	700.0	698.0	39.2	36.7	15.552	SF
File 3K-32H-K268 - Hz - Plan #1	377.0	376.9	19.0	17.7	14.894	CC
File 3K-32H-K268 - Hz - Plan #1	400.0	399.8	19.1	17.7	14.027	ES
File 3K-32H-K268 - Hz - Plan #1	600.0	599.3	23.2	21.1	11.015	SF
File 3L-32H-K268 - Hz - Plan #1	283.1	283.1	17.2	16.2	18.168	CC
File 3L-32H-K268 - Hz - Plan #1	400.0	399.9	17.5	16.1	12.856	ES
File 3L-32H-K268 - Hz - Plan #1	10,900.0	10,584.6	390.3	301.9	4.412	SF
File 3N-32H-K268 - Hz - Plan #1	100.0	100.0	4.6	4.3	15.125	CC
File 3N-32H-K268 - Hz - Plan #1	200.0	200.0	4.6	4.0	7.086	ES
File 3N-32H-K268 - Hz - Plan #1	11,071.9	10,836.8	417.3	321.9	4.375	SF
File 3O-32H-K268 - Hz - Plan #1	100.0	100.0	8.4	8.1	27.638	CC
File 3O-32H-K268 - Hz - Plan #1	200.0	200.0	8.4	7.7	12.872	ES
File 3O-32H-K268 - Hz - Plan #1	400.0	399.8	11.0	9.7	8.123	SF
File 3P-32H-K268 - Hz - Plan #1	100.0	100.0	14.5	14.2	47.599	CC
File 3P-32H-K268 - Hz - Plan #1	200.0	200.0	14.5	13.8	22.172	ES
File 3P-32H-K268 - Hz - Plan #1	500.0	499.3	23.8	22.0	13.747	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						Out of range
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	100.0	99.0	345.2	344.9	1,064.774	CC
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	200.0	199.0	345.2	344.6	513.096	ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	2,500.0	2,491.0	498.1	489.2	55.743	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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						Out of range
NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	7,300.0	7,255.7	368.6	340.5	13.113	SF
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	7,330.4	7,283.1	368.4	340.4	13.157	CC, ES
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						Out of range
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	100.0	3.0	467.0	466.8	2,969.010	CC
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	200.0	103.0	467.0	466.5	922.269	ES
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	1,000.0	901.1	497.7	494.2	144.508	SF
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO	8,974.5	7,660.0	62.6	20.5	1.487	Level 3, CC, ES, SF
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	121.2	124.4	471.0	470.6	1,235.705	CC, ES
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	500.0	455.5	494.7	493.1	296.078	SF
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	200.0	202.3	470.8	470.1	717.941	CC, ES
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	700.0	686.6	498.1	495.4	181.099	SF
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

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft	
Survey Program: 8123-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		
10,100.0	7,606.0	7,001.0	7,001.0	41.9	12.2	90.00	2,551.4	-218.5	413.3	359.3	54.03	7.650			
10,200.0	7,606.0	7,001.0	7,001.0	43.6	12.2	90.00	2,551.4	-218.5	314.9	259.2	55.69	5.654			
10,300.0	7,606.0	7,001.0	7,001.0	45.3	12.2	90.00	2,551.4	-218.5	217.8	160.5	57.36	3.797			
10,400.0	7,606.0	7,001.0	7,001.0	46.9	12.2	90.00	2,551.4	-218.5	125.5	66.4	59.04	2.125			
10,500.0	7,606.0	7,001.0	7,001.0	48.6	12.2	90.00	2,551.4	-218.5	63.3	2.7	60.67	1.044	Level 2		
10,509.7	7,606.0	7,001.0	7,001.0	48.8	12.2	90.00	2,551.4	-218.5	62.6	1.8	60.81	1.030	Level 2, CC, ES, SF		
10,600.0	7,606.0	7,001.0	7,001.0	50.3	12.2	90.00	2,551.4	-218.5	108.9	46.7	62.14	1.752			
10,700.0	7,606.0	7,001.0	7,001.0	52.0	12.2	90.00	2,551.4	-218.5	197.8	134.2	63.55	3.112			
10,800.0	7,606.0	7,001.0	7,001.0	53.6	12.2	90.00	2,551.4	-218.5	292.9	228.0	64.87	4.515			
10,900.0	7,606.0	7,001.0	7,001.0	55.3	12.2	90.00	2,551.4	-218.5	389.5	323.4	66.10	5.892			
11,000.0	7,606.0	7,001.0	7,001.0	56.9	12.2	90.00	2,551.4	-218.5	486.6	419.3	67.26	7.235			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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 3A-32H-K268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-92.3	92.3					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-92.3	92.3	92.0	0.30	305.542		
200.0	200.0	199.0	199.0	0.3	0.3	74.68	0.0	-92.3	92.3	91.7	0.65	141.804		
209.0	209.0	207.8	207.8	0.3	0.3	74.70	0.0	-92.3	92.3	91.6	0.68	135.309	CC, ES	
300.0	300.0	297.5	297.5	0.5	0.5	75.28	-0.2	-93.1	92.8	91.8	1.00	92.933		
400.0	399.9	395.9	395.8	0.7	0.7	76.61	-0.8	-95.6	94.6	93.2	1.35	69.969		
500.0	499.8	494.2	494.0	0.9	0.9	78.58	-1.7	-99.7	97.7	96.0	1.71	56.981		
600.0	599.6	592.3	592.0	1.1	1.1	81.06	-3.0	-105.4	102.2	100.1	2.09	48.888		
700.0	699.3	690.3	689.7	1.3	1.3	83.87	-4.7	-112.8	108.4	105.9	2.49	43.569		
800.0	798.9	788.1	787.1	1.5	1.5	86.45	-6.8	-121.7	116.2	113.3	2.89	40.165		
900.0	898.5	885.7	884.1	1.7	1.7	88.35	-9.3	-132.3	125.8	122.5	3.31	38.014		
1,000.0	998.1	983.1	980.7	2.0	2.0	89.64	-12.1	-144.4	137.0	133.3	3.73	36.690		
1,100.0	1,097.7	1,080.1	1,076.7	2.2	2.3	90.42	-15.3	-158.0	149.7	145.6	4.17	35.936		
1,200.0	1,197.3	1,176.8	1,172.1	2.4	2.6	90.80	-18.8	-173.2	163.9	159.3	4.61	35.591		
1,300.0	1,296.9	1,273.1	1,266.8	2.7	2.9	90.85	-22.7	-189.9	179.6	174.6	5.05	35.553	SF	
1,400.0	1,396.5	1,368.9	1,360.8	2.9	3.3	90.66	-26.9	-208.1	196.7	191.2	5.50	35.752		
1,500.0	1,496.1	1,464.1	1,453.9	3.1	3.7	90.29	-31.4	-227.6	215.2	209.3	5.96	36.141		
1,600.0	1,595.7	1,558.9	1,546.2	3.4	4.1	89.79	-36.3	-248.5	235.2	228.8	6.41	36.685		
1,700.0	1,695.3	1,654.9	1,639.4	3.6	4.5	89.21	-41.5	-271.1	256.4	249.5	6.87	37.323		
1,800.0	1,794.9	1,752.6	1,734.1	3.8	4.9	88.69	-46.9	-294.1	277.8	270.4	7.33	37.888		
1,900.0	1,894.5	1,850.2	1,828.9	4.1	5.4	88.25	-52.2	-317.2	299.2	291.4	7.79	38.389		
2,000.0	1,994.1	1,947.9	1,923.6	4.3	5.8	87.87	-57.6	-340.3	320.6	312.3	8.25	38.836		
2,100.0	2,093.7	2,045.5	2,018.3	4.5	6.3	87.53	-62.9	-363.4	342.0	333.3	8.72	39.237		
2,200.0	2,193.2	2,143.2	2,113.1	4.8	6.7	87.24	-68.3	-386.4	363.5	354.3	9.18	39.599		
2,300.0	2,292.8	2,240.9	2,207.8	5.0	7.2	86.97	-73.7	-409.5	384.9	375.3	9.64	39.927		
2,400.0	2,392.4	2,338.5	2,302.6	5.2	7.6	86.74	-79.0	-432.6	406.4	396.3	10.10	40.226		
2,500.0	2,492.0	2,436.2	2,397.3	5.5	8.1	86.53	-84.4	-455.6	427.8	417.3	10.56	40.500		
2,600.0	2,591.6	2,533.8	2,492.1	5.7	8.5	86.34	-89.7	-478.7	449.3	438.3	11.02	40.751		
2,700.0	2,691.2	2,631.5	2,586.8	5.9	9.0	86.16	-95.1	-501.8	470.8	459.3	11.49	40.983		
2,800.0	2,790.8	2,729.1	2,681.6	6.2	9.4	86.00	-100.4	-524.8	492.2	480.3	11.95	41.198		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3B-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-87.59	3.6	-86.7	86.8					
100.0	100.0	99.0	99.0	0.2	0.2	-87.59	3.6	-86.7	86.8	86.5	0.30	287.277		
200.0	200.0	199.0	199.0	0.3	0.3	77.09	3.6	-86.7	86.8	86.1	0.65	133.329		
300.0	300.0	299.0	299.0	0.5	0.5	77.88	3.6	-86.7	86.5	85.5	1.00	86.412		
332.2	332.2	330.7	330.7	0.6	0.6	78.37	3.7	-86.8	86.5	85.3	1.11	77.547	CC, ES	
400.0	399.9	397.5	397.5	0.7	0.7	79.78	3.7	-87.6	86.8	85.4	1.35	64.094		
500.0	499.8	495.8	495.8	0.9	0.8	82.72	4.0	-90.1	88.6	86.9	1.72	51.657		
600.0	599.6	594.0	593.9	1.1	1.0	86.46	4.3	-94.2	92.3	90.2	2.09	44.156		
700.0	699.3	692.0	691.7	1.3	1.2	90.71	4.9	-100.1	98.0	95.6	2.48	39.528		
800.0	798.9	789.7	789.1	1.5	1.4	94.70	5.6	-107.6	106.0	103.1	2.88	36.856		
900.0	898.5	887.2	886.2	1.7	1.6	97.86	6.4	-116.7	116.0	112.7	3.28	35.410		
1,000.0	998.1	984.5	982.8	2.0	1.9	100.25	7.4	-127.4	127.9	124.2	3.68	34.744		
1,100.0	1,097.7	1,081.3	1,078.9	2.2	2.1	101.97	8.6	-139.7	141.5	137.4	4.09	34.590	SF	
1,200.0	1,197.3	1,177.8	1,174.4	2.4	2.4	103.14	9.9	-153.5	156.8	152.3	4.51	34.783		
1,300.0	1,296.9	1,273.8	1,269.1	2.7	2.7	103.88	11.3	-168.9	173.6	168.7	4.93	35.220		
1,400.0	1,396.5	1,369.3	1,363.1	2.9	3.0	104.29	12.9	-185.8	191.9	186.6	5.36	35.834		
1,500.0	1,496.1	1,466.2	1,458.3	3.1	3.4	104.47	14.6	-204.2	211.5	205.7	5.79	36.530		
1,600.0	1,595.7	1,564.3	1,554.5	3.4	3.7	104.62	16.4	-222.9	231.2	225.0	6.23	37.118		
1,700.0	1,695.3	1,662.3	1,650.7	3.6	4.1	104.73	18.1	-241.7	250.9	244.2	6.67	37.617		
1,800.0	1,794.9	1,760.4	1,746.9	3.8	4.5	104.84	19.9	-260.4	270.6	263.4	7.11	38.044		
1,900.0	1,894.5	1,858.4	1,843.1	4.1	4.8	104.93	21.6	-279.2	290.2	282.7	7.56	38.415		
2,000.0	1,994.1	1,956.4	1,939.3	4.3	5.2	105.00	23.4	-297.9	309.9	301.9	8.00	38.738		
2,100.0	2,093.7	2,054.5	2,035.6	4.5	5.6	105.07	25.1	-316.7	329.6	321.2	8.45	39.022		
2,200.0	2,193.2	2,152.5	2,131.8	4.8	5.9	105.13	26.9	-335.4	349.3	340.4	8.89	39.274		
2,300.0	2,292.8	2,250.6	2,228.0	5.0	6.3	105.18	28.6	-354.2	369.0	359.6	9.34	39.499		
2,400.0	2,392.4	2,348.6	2,324.2	5.2	6.7	105.23	30.4	-372.9	388.7	378.9	9.79	39.701		
2,500.0	2,492.0	2,446.7	2,420.4	5.5	7.0	105.28	32.1	-391.7	408.3	398.1	10.24	39.883		
2,600.0	2,591.6	2,544.7	2,516.7	5.7	7.4	105.32	33.9	-410.4	428.0	417.3	10.69	40.047		
2,700.0	2,691.2	2,642.7	2,612.9	5.9	7.8	105.35	35.6	-429.2	447.7	436.6	11.14	40.197		
2,800.0	2,790.8	2,740.8	2,709.1	6.2	8.1	105.39	37.4	-447.9	467.4	455.8	11.59	40.334		
2,900.0	2,890.4	2,838.8	2,805.3	6.4	8.5	105.42	39.1	-466.7	487.1	475.1	12.04	40.460		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3C-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-81.1	81.1					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-81.1	81.1	80.8	0.30	268.507		
200.0	200.0	199.0	199.0	0.3	0.3	74.68	0.0	-81.1	81.1	80.5	0.65	124.614		
300.0	300.0	299.0	299.0	0.5	0.5	75.52	0.0	-81.1	80.8	79.8	1.00	80.699		
400.0	399.9	398.9	398.9	0.7	0.7	77.58	0.0	-81.1	80.1	78.8	1.36	59.054		
456.6	456.5	454.8	454.8	0.8	0.8	79.22	-0.1	-81.4	79.9	78.3	1.56	51.153 CC		
500.0	499.8	497.6	497.6	0.9	0.8	80.65	-0.2	-81.9	80.0	78.3	1.72	46.559 ES		
600.0	599.6	596.1	596.1	1.1	1.0	84.42	-0.9	-84.4	81.6	79.5	2.09	38.944		
700.0	699.3	694.6	694.5	1.3	1.2	88.64	-1.9	-88.5	84.9	82.4	2.49	34.144		
800.0	798.9	793.0	792.7	1.5	1.4	92.46	-3.4	-94.2	90.2	87.3	2.89	31.232		
900.0	898.5	891.3	890.7	1.7	1.6	95.25	-5.3	-101.5	97.2	93.9	3.29	29.495		
1,000.0	998.1	989.5	988.5	2.0	1.8	97.11	-7.7	-110.4	105.8	102.0	3.71	28.495		
1,100.0	1,097.7	1,087.5	1,085.8	2.2	2.1	98.16	-10.4	-121.0	115.7	111.6	4.14	27.981		
1,200.0	1,197.3	1,185.2	1,182.8	2.4	2.3	98.56	-13.6	-133.1	127.1	122.5	4.57	27.801 SF		
1,300.0	1,296.9	1,282.6	1,279.2	2.7	2.6	98.46	-17.2	-146.8	139.8	134.7	5.02	27.867		
1,400.0	1,396.5	1,379.7	1,374.9	2.9	2.9	98.00	-21.1	-162.0	153.7	148.3	5.47	28.123		
1,500.0	1,496.1	1,477.7	1,471.4	3.1	3.2	97.31	-25.5	-178.6	168.8	162.9	5.92	28.500		
1,600.0	1,595.7	1,576.5	1,568.7	3.4	3.5	96.72	-29.9	-195.5	184.0	177.6	6.38	28.826		
1,700.0	1,695.3	1,675.4	1,666.0	3.6	3.9	96.21	-34.3	-212.4	199.2	192.4	6.85	29.106		
1,800.0	1,794.9	1,774.2	1,763.2	3.8	4.2	95.77	-38.7	-229.3	214.5	207.2	7.31	29.348		
1,900.0	1,894.5	1,873.0	1,860.5	4.1	4.5	95.39	-43.2	-246.2	229.7	221.9	7.77	29.561		
2,000.0	1,994.1	1,971.8	1,957.8	4.3	4.9	95.06	-47.6	-263.1	245.0	236.7	8.23	29.749		
2,100.0	2,093.7	2,070.6	2,055.0	4.5	5.2	94.77	-52.0	-280.0	260.2	251.5	8.70	29.917		
2,200.0	2,193.2	2,169.5	2,152.3	4.8	5.6	94.51	-56.4	-296.9	275.5	266.3	9.16	30.067		
2,300.0	2,292.8	2,268.3	2,249.6	5.0	5.9	94.28	-60.8	-313.8	290.7	281.1	9.63	30.203		
2,400.0	2,392.4	2,367.1	2,346.8	5.2	6.2	94.07	-65.2	-330.7	306.0	295.9	10.09	30.326		
2,500.0	2,492.0	2,465.9	2,444.1	5.5	6.6	93.88	-69.7	-347.6	321.3	310.7	10.56	30.438		
2,600.0	2,591.6	2,564.8	2,541.4	5.7	6.9	93.71	-74.1	-364.5	336.6	325.5	11.02	30.540		
2,700.0	2,691.2	2,663.6	2,638.6	5.9	7.3	93.55	-78.5	-381.4	351.8	340.3	11.48	30.635		
2,800.0	2,790.8	2,762.4	2,735.9	6.2	7.6	93.41	-82.9	-398.3	367.1	355.2	11.95	30.722		
2,900.0	2,890.4	2,861.2	2,833.2	6.4	8.0	93.27	-87.3	-415.2	382.4	370.0	12.41	30.802		
3,000.0	2,990.0	2,960.0	2,930.4	6.6	8.3	93.15	-91.7	-432.1	397.7	384.8	12.88	30.876		
3,100.0	3,089.6	3,058.9	3,027.7	6.9	8.7	93.04	-96.2	-449.0	413.0	399.6	13.35	30.946		
3,200.0	3,189.2	3,157.7	3,124.9	7.1	9.0	92.93	-100.6	-465.9	428.3	414.5	13.81	31.010		
3,300.0	3,288.8	3,256.5	3,222.2	7.3	9.4	92.83	-105.0	-482.8	443.6	429.3	14.28	31.071		
3,400.0	3,388.4	3,355.3	3,319.5	7.6	9.7	92.74	-109.4	-499.7	458.8	444.1	14.74	31.127		
3,500.0	3,488.0	3,454.1	3,416.7	7.8	10.1	92.66	-113.8	-516.6	474.1	458.9	15.21	31.180		
3,600.0	3,587.6	3,553.0	3,514.0	8.0	10.4	92.58	-118.2	-533.5	489.4	473.8	15.67	31.230		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-87.24	3.6	-75.5	75.6					
100.0	100.0	99.0	99.0	0.2	0.2	-87.24	3.6	-75.5	75.6	75.3	0.30	250.279		
200.0	200.0	199.0	199.0	0.3	0.3	77.44	3.6	-75.5	75.6	75.0	0.65	116.156		
300.0	300.0	299.0	299.0	0.5	0.5	78.35	3.6	-75.5	75.4	74.4	1.00	75.256		
400.0	399.9	398.9	398.9	0.7	0.7	80.58	3.6	-75.5	74.8	73.5	1.36	55.141		
500.0	499.8	498.8	498.8	0.9	0.8	84.18	3.6	-75.5	74.2	72.5	1.72	43.102		
529.2	528.9	527.6	527.6	0.9	0.9	85.47	3.6	-75.6	74.1	72.3	1.83	40.481	CC, ES	
600.0	599.6	597.4	597.4	1.1	1.0	89.03	3.8	-76.4	74.7	72.6	2.10	35.612		
700.0	699.3	695.7	695.7	1.3	1.2	94.81	4.2	-78.8	77.5	75.0	2.49	31.176		
800.0	798.9	793.9	793.8	1.5	1.4	100.35	4.9	-83.0	82.8	80.0	2.88	28.801		
900.0	898.5	892.0	891.7	1.7	1.6	104.79	5.8	-88.8	90.5	87.2	3.27	27.688		
1,000.0	998.1	989.9	989.3	2.0	1.8	108.13	7.0	-96.2	100.1	96.5	3.66	27.350	SF	
1,100.0	1,097.7	1,087.5	1,086.5	2.2	2.0	110.47	8.5	-105.2	111.6	107.5	4.06	27.493		
1,200.0	1,197.3	1,185.8	1,184.2	2.4	2.2	112.08	10.2	-115.8	124.5	120.0	4.46	27.899		
1,300.0	1,296.9	1,284.9	1,282.7	2.7	2.4	113.35	12.0	-126.6	137.6	132.8	4.87	28.261		
1,400.0	1,396.5	1,384.0	1,381.1	2.9	2.7	114.40	13.8	-137.4	150.8	145.5	5.28	28.562		
1,500.0	1,496.1	1,483.1	1,479.6	3.1	2.9	115.28	15.6	-148.2	164.1	158.4	5.69	28.816		
1,600.0	1,595.7	1,582.1	1,578.1	3.4	3.2	116.02	17.4	-159.0	177.3	171.2	6.11	29.030		
1,700.0	1,695.3	1,681.2	1,676.6	3.6	3.4	116.67	19.1	-169.8	190.6	184.1	6.53	29.214		
1,800.0	1,794.9	1,780.3	1,775.1	3.8	3.7	117.23	20.9	-180.7	204.0	197.0	6.94	29.373		
1,900.0	1,894.5	1,879.4	1,873.5	4.1	3.9	117.72	22.7	-191.5	217.3	209.9	7.36	29.511		
2,000.0	1,994.1	1,978.5	1,972.0	4.3	4.2	118.15	24.5	-202.3	230.7	222.9	7.78	29.632		
2,100.0	2,093.7	2,077.6	2,070.5	4.5	4.4	118.54	26.2	-213.1	244.0	235.8	8.21	29.739		
2,200.0	2,193.2	2,176.7	2,169.0	4.8	4.7	118.89	28.0	-223.9	257.4	248.8	8.63	29.834		
2,300.0	2,292.8	2,275.8	2,267.5	5.0	4.9	119.20	29.8	-234.7	270.8	261.7	9.05	29.919		
2,400.0	2,392.4	2,374.9	2,366.0	5.2	5.2	119.48	31.6	-245.5	284.2	274.7	9.47	29.994		
2,500.0	2,492.0	2,474.0	2,464.4	5.5	5.4	119.74	33.4	-256.4	297.6	287.7	9.90	30.063		
2,600.0	2,591.6	2,573.0	2,562.9	5.7	5.7	119.98	35.1	-267.2	311.0	300.7	10.32	30.125		
2,700.0	2,691.2	2,672.1	2,661.4	5.9	5.9	120.19	36.9	-278.0	324.4	313.6	10.75	30.181		
2,800.0	2,790.8	2,771.2	2,759.9	6.2	6.2	120.39	38.7	-288.8	337.8	326.6	11.17	30.233		
2,900.0	2,890.4	2,870.3	2,858.4	6.4	6.4	120.57	40.5	-299.6	351.2	339.6	11.60	30.280		
3,000.0	2,990.0	2,969.4	2,956.9	6.6	6.7	120.74	42.2	-310.4	364.6	352.6	12.02	30.324		
3,100.0	3,089.6	3,068.5	3,055.3	6.9	7.0	120.90	44.0	-321.2	378.0	365.6	12.45	30.364		
3,200.0	3,189.2	3,167.6	3,153.8	7.1	7.2	121.05	45.8	-332.1	391.5	378.6	12.88	30.401		
3,300.0	3,288.8	3,266.7	3,252.3	7.3	7.5	121.19	47.6	-342.9	404.9	391.6	13.30	30.435		
3,400.0	3,388.4	3,365.8	3,350.8	7.6	7.7	121.32	49.3	-353.7	418.3	404.6	13.73	30.467		
3,500.0	3,488.0	3,464.9	3,449.3	7.8	8.0	121.44	51.1	-364.5	431.7	417.6	14.16	30.496		
3,600.0	3,587.6	3,563.9	3,547.7	8.0	8.2	121.55	52.9	-375.3	445.2	430.6	14.58	30.524		
3,700.0	3,687.2	3,663.0	3,646.2	8.3	8.5	121.66	54.7	-386.1	458.6	443.6	15.01	30.550		
3,800.0	3,786.8	3,762.1	3,744.7	8.5	8.8	121.76	56.5	-396.9	472.0	456.6	15.44	30.575		
3,900.0	3,886.4	3,861.2	3,843.2	8.7	9.0	121.85	58.2	-407.8	485.5	469.6	15.87	30.597		
4,000.0	3,986.0	3,960.3	3,941.7	9.0	9.3	121.94	60.0	-418.6	498.9	482.6	16.29	30.619		

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

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Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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 Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-61.6	61.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-61.6	61.6	61.2	0.30	202.676		
200.0	200.0	200.0	200.0	0.3	0.3	74.68	0.0	-61.6	61.5	60.9	0.65	94.279		
300.0	300.0	300.0	300.0	0.5	0.5	75.79	0.0	-61.6	61.2	60.2	1.00	61.038		
400.0	399.9	399.9	399.9	0.7	0.7	78.52	0.0	-61.6	60.6	59.2	1.36	44.585		
500.0	499.8	499.8	499.8	0.9	0.8	82.94	0.0	-61.6	59.8	58.1	1.72	34.712		
600.0	599.6	599.6	599.6	1.1	1.0	89.13	0.0	-61.6	59.4	57.3	2.10	28.265		
604.5	604.2	604.1	604.1	1.1	1.0	89.45	0.0	-61.6	59.4	57.2	2.12	28.027	CC, ES	
700.0	699.3	698.3	698.2	1.3	1.2	96.89	0.3	-62.3	60.7	58.2	2.49	24.372		
800.0	798.9	796.7	796.7	1.5	1.4	104.69	1.3	-64.7	64.9	62.0	2.88	22.579		
900.0	898.5	895.3	895.2	1.7	1.5	111.12	2.9	-68.5	71.9	68.6	3.26	22.064		
1,000.0	998.1	994.7	994.5	2.0	1.7	116.29	4.8	-72.9	80.1	76.4	3.64	22.012		
1,100.0	1,097.7	1,094.1	1,093.8	2.2	1.9	120.49	6.6	-77.2	88.8	84.8	4.01	22.119		
1,200.0	1,197.3	1,193.6	1,193.1	2.4	2.1	123.92	8.5	-81.6	97.9	93.5	4.39	22.305		
1,300.0	1,296.9	1,293.0	1,292.4	2.7	2.3	126.76	10.3	-85.9	107.3	102.6	4.76	22.529		
1,400.0	1,396.5	1,392.4	1,391.7	2.9	2.5	129.14	12.2	-90.3	116.9	111.8	5.14	22.767		
1,500.0	1,496.1	1,491.9	1,491.1	3.1	2.7	131.15	14.0	-94.6	126.7	121.2	5.51	23.005		
1,600.0	1,595.7	1,591.3	1,590.4	3.4	2.9	132.87	15.9	-99.0	136.7	130.8	5.88	23.237		
1,700.0	1,695.3	1,690.7	1,689.7	3.6	3.0	134.36	17.7	-103.3	146.7	140.4	6.25	23.458		
1,800.0	1,794.9	1,790.1	1,789.0	3.8	3.2	135.66	19.6	-107.7	156.8	150.2	6.62	23.668		
1,900.0	1,894.5	1,889.6	1,888.3	4.1	3.4	136.80	21.4	-112.0	167.0	160.0	7.00	23.866		
2,000.0	1,994.1	1,989.0	1,987.6	4.3	3.6	137.81	23.2	-116.4	177.2	169.9	7.37	24.051		
2,100.0	2,093.7	2,088.4	2,087.0	4.5	3.8	138.71	25.1	-120.7	187.5	179.8	7.74	24.225		
2,200.0	2,193.2	2,187.9	2,186.3	4.8	4.0	139.52	26.9	-125.1	197.9	189.7	8.11	24.387		
2,300.0	2,292.8	2,287.3	2,285.6	5.0	4.2	140.24	28.8	-129.4	208.2	199.7	8.49	24.540		
2,400.0	2,392.4	2,386.7	2,384.9	5.2	4.4	140.90	30.6	-133.8	218.6	209.8	8.86	24.682		
2,500.0	2,492.0	2,486.1	2,484.2	5.5	4.6	141.50	32.5	-138.1	229.0	219.8	9.23	24.816		
2,600.0	2,591.6	2,585.6	2,583.5	5.7	4.8	142.04	34.3	-142.5	239.5	229.9	9.60	24.941		
2,700.0	2,691.2	2,685.0	2,682.8	5.9	4.9	142.54	36.2	-146.8	250.0	240.0	9.97	25.059		
2,800.0	2,790.8	2,784.4	2,782.2	6.2	5.1	143.00	38.0	-151.2	260.4	250.1	10.35	25.170		
2,900.0	2,890.4	2,883.9	2,881.5	6.4	5.3	143.42	39.9	-155.6	270.9	260.2	10.72	25.275		
3,000.0	2,990.0	2,983.3	2,980.8	6.6	5.5	143.82	41.7	-159.9	281.5	270.4	11.09	25.373		
3,100.0	3,089.6	3,082.7	3,080.1	6.9	5.7	144.18	43.5	-164.3	292.0	280.5	11.47	25.466		
3,200.0	3,189.2	3,182.1	3,179.4	7.1	5.9	144.52	45.4	-168.6	302.5	290.7	11.84	25.554		
3,300.0	3,288.8	3,281.6	3,278.7	7.3	6.1	144.84	47.2	-173.0	313.1	300.9	12.21	25.638		
3,400.0	3,388.4	3,381.0	3,378.1	7.6	6.3	145.13	49.1	-177.3	323.6	311.0	12.58	25.717		
3,500.0	3,488.0	3,480.4	3,477.4	7.8	6.5	145.41	50.9	-181.7	334.2	321.2	12.96	25.792		
3,600.0	3,587.6	3,579.9	3,576.7	8.0	6.7	145.67	52.8	-186.0	344.7	331.4	13.33	25.863		
3,700.0	3,687.2	3,679.3	3,676.0	8.3	6.9	145.91	54.6	-190.4	355.3	341.6	13.70	25.931		
3,800.0	3,786.8	3,778.7	3,775.3	8.5	7.1	146.14	56.5	-194.7	365.9	351.8	14.08	25.996		
3,900.0	3,886.4	3,878.1	3,874.6	8.7	7.2	146.36	58.3	-199.1	376.5	362.0	14.45	26.057		
4,000.0	3,986.0	3,977.6	3,973.9	9.0	7.4	146.56	60.2	-203.4	387.1	372.3	14.82	26.116		
4,100.0	4,085.6	4,077.0	4,073.3	9.2	7.6	146.76	62.0	-207.8	397.7	382.5	15.19	26.172		
4,200.0	4,185.2	4,176.4	4,172.6	9.4	7.8	146.94	63.9	-212.1	408.3	392.7	15.57	26.226		
4,300.0	4,284.8	4,275.8	4,271.9	9.7	8.0	147.12	65.7	-216.5	418.9	402.9	15.94	26.277		
4,400.0	4,384.4	4,375.3	4,371.2	9.9	8.2	147.28	67.5	-220.8	429.5	413.2	16.31	26.326		
4,500.0	4,484.0	4,474.7	4,470.5	10.1	8.4	147.44	69.4	-225.2	440.1	423.4	16.69	26.374		
4,600.0	4,583.6	4,574.1	4,569.8	10.4	8.6	147.59	71.2	-229.5	450.7	433.7	17.06	26.419		
4,700.0	4,683.2	4,673.6	4,669.2	10.6	8.8	147.73	73.1	-233.9	461.3	443.9	17.43	26.462		
4,800.0	4,782.8	4,773.0	4,768.5	10.8	9.0	147.87	74.9	-238.2	472.0	454.2	17.81	26.504		
4,900.0	4,882.4	4,872.4	4,867.8	11.1	9.2	148.00	76.8	-242.6	482.6	464.4	18.18	26.544		
5,000.0	4,982.0	4,971.8	4,967.1	11.3	9.4	148.13	78.6	-246.9	493.2	474.7	18.55	26.583		

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

Anticollision Report

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Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,000.0	6,973.9	7,819.5	7,378.0	16.0	17.8	85.28	-567.3	-352.6	449.5	416.0	33.54	13.402		
7,100.0	7,073.8	7,821.1	7,378.0	16.1	17.9	-73.88	-569.0	-352.6	361.0	328.7	32.36	11.156		
7,200.0	7,172.4	7,805.5	7,378.0	16.0	17.7	-97.25	-553.4	-352.6	280.8	249.7	31.11	9.026		
7,300.0	7,266.7	7,773.0	7,378.0	15.8	17.3	-98.90	-520.9	-352.6	218.0	187.3	30.70	7.100		
7,400.0	7,354.0	7,724.6	7,378.0	15.5	16.8	-90.67	-472.5	-352.6	185.0	154.2	30.81	6.005		
7,441.8	7,387.7	7,700.1	7,377.9	15.3	16.6	-84.99	-447.9	-352.6	181.9	151.2	30.75	5.917 SF		
7,500.0	7,431.5	7,665.6	7,376.1	15.1	16.2	-76.24	-413.5	-352.5	187.5	157.2	30.32	6.185		
7,600.0	7,496.9	7,608.1	7,368.5	14.7	15.7	-61.17	-356.5	-352.2	217.7	189.3	28.35	7.677		
7,700.0	7,548.3	7,550.0	7,355.2	14.4	15.2	-47.95	-300.0	-351.6	262.0	236.7	25.32	10.348		
7,800.0	7,584.0	7,500.0	7,339.1	14.2	14.8	-38.64	-252.7	-350.9	310.6	288.1	22.48	13.815		
7,900.0	7,602.9	7,450.0	7,319.0	14.2	14.5	-31.69	-206.9	-350.0	358.3	338.0	20.37	17.594		
8,000.0	7,606.0	7,389.1	7,289.2	14.4	14.2	-27.02	-153.8	-348.7	403.4	384.0	19.38	20.813		
8,100.0	7,606.0	7,350.0	7,267.3	14.8	14.0	-25.21	-121.6	-347.7	454.9	435.6	19.27	23.605		

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Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
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Reference Well:	File 3M-32H-K268	Survey Calculation Method:	Minimum Curvature
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Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3F-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-86.28	3.6	-56.0	56.1					
100.0	100.0	100.0	100.0	0.2	0.2	-86.28	3.6	-56.0	56.1	55.8	0.30	184.639		
200.0	200.0	200.0	200.0	0.3	0.3	78.41	3.6	-56.0	56.1	55.4	0.65	85.891		
300.0	300.0	300.0	300.0	0.5	0.5	79.64	3.6	-56.0	55.8	54.8	1.00	55.656		
400.0	399.9	399.9	399.9	0.7	0.7	82.67	3.6	-56.0	55.4	54.0	1.36	40.756		
500.0	499.8	499.8	499.8	0.9	0.8	87.54	3.6	-56.0	55.0	53.3	1.72	31.899		
539.9	539.6	539.6	539.6	1.0	0.9	90.00	3.6	-56.0	54.9	53.0	1.87	29.315	CC	
600.0	599.6	599.6	599.6	1.1	1.0	94.25	3.6	-56.0	55.1	53.0	2.10	26.227	ES	
700.0	699.3	699.3	699.3	1.3	1.2	102.55	3.6	-56.0	56.3	53.8	2.49	22.627		
800.0	798.9	798.9	798.9	1.5	1.4	111.07	3.6	-56.0	58.9	56.0	2.87	20.519		
900.0	898.5	898.5	898.5	1.7	1.5	118.71	3.6	-56.0	62.7	59.4	3.24	19.323		
1,000.0	998.1	998.1	998.1	2.0	1.7	125.39	3.6	-56.0	67.5	63.9	3.61	18.695		
1,100.0	1,097.7	1,097.7	1,097.7	2.2	1.9	131.12	3.6	-56.0	73.0	69.1	3.96	18.419		
1,200.0	1,197.3	1,197.3	1,197.3	2.4	2.1	136.00	3.6	-56.0	79.2	74.9	4.32	18.358		
1,300.0	1,296.9	1,296.9	1,296.9	2.7	2.2	140.15	3.6	-56.0	85.9	81.2	4.66	18.427		
1,400.0	1,396.5	1,396.5	1,396.5	2.9	2.4	143.68	3.6	-56.0	93.0	88.0	5.01	18.572		
1,500.0	1,496.1	1,496.1	1,496.1	3.1	2.6	146.71	3.6	-56.0	100.4	95.0	5.35	18.760		
1,600.0	1,595.7	1,595.7	1,595.7	3.4	2.8	149.32	3.6	-56.0	108.0	102.3	5.69	18.971		
1,700.0	1,695.3	1,695.3	1,695.3	3.6	2.9	151.58	3.6	-56.0	115.8	109.7	6.03	19.191		
1,800.0	1,794.9	1,794.9	1,794.9	3.8	3.1	153.56	3.6	-56.0	123.7	117.4	6.37	19.411		
1,900.0	1,894.5	1,894.5	1,894.5	4.1	3.3	155.29	3.6	-56.0	131.8	125.1	6.72	19.629		
2,000.0	1,994.1	1,994.1	1,994.1	4.3	3.5	156.82	3.6	-56.0	140.0	133.0	7.06	19.839		
2,100.0	2,093.7	2,093.7	2,093.7	4.5	3.6	158.19	3.6	-56.0	148.3	140.9	7.40	20.041		
2,200.0	2,193.2	2,193.2	2,193.2	4.8	3.8	159.40	3.6	-56.0	156.7	148.9	7.74	20.234		
2,300.0	2,292.8	2,292.8	2,292.8	5.0	4.0	160.50	3.6	-56.0	165.1	157.0	8.09	20.418		
2,400.0	2,392.4	2,392.4	2,392.4	5.2	4.2	161.48	3.6	-56.0	173.6	165.2	8.43	20.593		
2,500.0	2,492.0	2,492.0	2,492.0	5.5	4.3	162.38	3.6	-56.0	182.1	173.3	8.77	20.758		
2,600.0	2,591.6	2,591.6	2,591.6	5.7	4.5	163.20	3.6	-56.0	190.7	181.6	9.12	20.915		
2,700.0	2,691.2	2,691.2	2,691.2	5.9	4.7	163.94	3.6	-56.0	199.3	189.8	9.46	21.063		
2,800.0	2,790.8	2,790.8	2,790.8	6.2	4.8	164.62	3.6	-56.0	207.9	198.1	9.81	21.204		
2,900.0	2,890.4	2,890.4	2,890.4	6.4	5.0	165.25	3.6	-56.0	216.6	206.4	10.15	21.337		
3,000.0	2,990.0	2,990.0	2,990.0	6.6	5.2	165.83	3.6	-56.0	225.2	214.8	10.49	21.463		
3,100.0	3,089.6	3,089.6	3,089.6	6.9	5.4	166.37	3.6	-56.0	233.9	223.1	10.84	21.583		
3,200.0	3,189.2	3,189.2	3,189.2	7.1	5.5	166.87	3.6	-56.0	242.7	231.5	11.18	21.697		
3,300.0	3,288.8	3,288.8	3,288.8	7.3	5.7	167.33	3.6	-56.0	251.4	239.9	11.53	21.805		
3,400.0	3,388.4	3,388.4	3,388.4	7.6	5.9	167.77	3.6	-56.0	260.2	248.3	11.88	21.908		
3,500.0	3,488.0	3,488.0	3,488.0	7.8	6.1	168.17	3.6	-56.0	268.9	256.7	12.22	22.006		
3,600.0	3,587.6	3,587.6	3,587.6	8.0	6.2	168.55	3.6	-56.0	277.7	265.1	12.57	22.099		
3,700.0	3,687.2	3,687.2	3,687.2	8.3	6.4	168.90	3.6	-56.0	286.5	273.6	12.91	22.188		
3,800.0	3,786.8	3,786.8	3,786.8	8.5	6.6	169.24	3.6	-56.0	295.3	282.1	13.26	22.273		
3,900.0	3,886.4	3,886.4	3,886.4	8.7	6.8	169.55	3.6	-56.0	304.1	290.5	13.60	22.354		
4,000.0	3,986.0	3,986.0	3,986.0	9.0	6.9	169.85	3.6	-56.0	312.9	299.0	13.95	22.432		
4,100.0	4,085.6	4,081.2	4,081.2	9.2	7.1	170.14	4.2	-55.8	322.4	308.1	14.29	22.560		
4,200.0	4,185.2	4,175.3	4,175.3	9.4	7.3	170.48	6.2	-55.1	333.4	318.7	14.62	22.794		
4,300.0	4,284.8	4,273.0	4,272.9	9.7	7.4	170.85	9.4	-54.0	345.6	330.6	14.97	23.090		
4,400.0	4,384.4	4,372.2	4,372.0	9.9	7.6	171.20	12.7	-52.9	357.9	342.6	15.31	23.374		
4,500.0	4,484.0	4,471.4	4,471.2	10.1	7.8	171.53	16.0	-51.7	370.2	354.5	15.65	23.646		
4,600.0	4,583.6	4,570.6	4,570.3	10.4	8.0	171.84	19.3	-50.6	382.5	366.5	16.00	23.906		
4,700.0	4,683.2	4,669.8	4,669.5	10.6	8.1	172.12	22.7	-49.4	394.8	378.5	16.34	24.156		
4,800.0	4,782.8	4,769.1	4,768.7	10.8	8.3	172.40	26.0	-48.3	407.1	390.4	16.69	24.396		
4,900.0	4,882.4	4,868.3	4,867.8	11.1	8.5	172.65	29.3	-47.2	419.5	402.4	17.03	24.626		
5,000.0	4,982.0	4,967.5	4,967.0	11.3	8.7	172.89	32.6	-46.0	431.8	414.4	17.38	24.848		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3F-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,081.6	5,066.7	5,066.1	11.5	8.8	173.12	35.9	-44.9	444.2	426.5	17.72	25.061		
5,200.0	5,181.2	5,165.9	5,165.3	11.8	9.0	173.33	39.2	-43.8	456.5	438.5	18.07	25.266		
5,300.0	5,280.8	5,265.1	5,264.4	12.0	9.2	173.54	42.6	-42.6	468.9	450.5	18.41	25.464		
5,400.0	5,380.4	5,364.4	5,363.6	12.2	9.4	173.73	45.9	-41.5	481.3	462.5	18.76	25.654		
5,500.0	5,480.0	5,463.6	5,462.8	12.5	9.6	173.91	49.2	-40.4	493.7	474.5	19.11	25.838		
7,200.0	7,172.4	8,015.5	7,606.0	16.0	17.3	129.86	-552.0	-10.0	459.4	427.6	31.71	14.486		
7,300.0	7,266.7	7,983.0	7,606.0	15.8	16.9	134.33	-519.5	-10.2	373.0	342.8	30.12	12.383		
7,400.0	7,354.0	7,934.3	7,606.0	15.5	16.3	133.42	-470.8	-10.7	297.7	268.8	28.88	10.309		
7,500.0	7,431.5	7,844.4	7,598.9	15.1	15.4	122.32	-381.3	-11.5	234.6	206.0	28.56	8.214		
7,600.0	7,496.9	7,767.9	7,581.8	14.7	14.8	109.16	-306.8	-12.4	188.0	159.5	28.45	6.607		
7,700.0	7,548.3	7,699.0	7,558.1	14.4	14.2	93.21	-242.1	-13.2	169.4	141.2	28.17	6.013 SF		
7,705.1	7,550.5	7,695.6	7,556.7	14.3	14.2	92.33	-239.0	-13.3	169.3	141.2	28.14	6.017		
7,800.0	7,584.0	7,634.5	7,529.1	14.2	13.8	75.94	-184.7	-14.1	183.2	156.2	26.99	6.786		
7,900.0	7,602.9	7,573.0	7,495.5	14.2	13.5	60.30	-133.2	-14.9	219.1	194.2	24.93	8.791		
8,000.0	7,606.0	7,514.2	7,458.4	14.4	13.3	49.61	-87.6	-15.7	265.3	242.1	23.19	11.440		
8,100.0	7,606.0	7,463.5	7,422.8	14.8	13.1	43.53	-51.5	-16.5	322.2	299.8	22.31	14.438		
8,200.0	7,606.0	7,420.8	7,390.5	15.4	13.0	38.98	-23.7	-17.1	388.4	366.6	21.81	17.806		
8,300.0	7,606.0	7,384.9	7,361.7	16.2	12.9	35.55	-2.1	-17.6	461.5	440.0	21.58	21.387		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-50.4	50.4					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-50.4	50.4	50.1	0.30	165.826		
200.0	200.0	200.0	200.0	0.3	0.3	74.69	0.0	-50.4	50.4	49.7	0.65	77.135		
300.0	300.0	300.0	300.0	0.5	0.5	76.05	0.0	-50.4	50.0	49.0	1.00	49.885		
400.0	399.9	399.9	399.9	0.7	0.7	79.39	0.0	-50.4	49.4	48.1	1.36	36.369		
500.0	499.8	499.8	499.8	0.9	0.8	84.84	0.0	-50.4	48.8	47.0	1.72	28.298		
600.0	599.6	600.4	600.4	1.1	1.0	92.86	0.0	-49.5	47.8	45.7	2.10	22.741		
700.0	699.3	700.7	700.7	1.3	1.2	104.17	0.2	-46.8	46.6	44.2	2.49	18.736		
765.7	764.7	766.5	766.4	1.4	1.3	113.03	0.3	-44.2	46.4	43.6	2.74	16.925 CC		
800.0	798.9	800.6	800.5	1.5	1.4	117.83	0.4	-42.5	46.5	43.6	2.87	16.220 ES		
900.0	898.5	899.9	899.7	1.7	1.6	131.29	0.6	-37.7	48.7	45.4	3.22	15.097		
1,000.0	998.1	999.3	998.9	2.0	1.8	143.04	0.8	-32.9	53.2	49.7	3.57	14.933		
1,100.0	1,097.7	1,098.6	1,098.1	2.2	1.9	152.61	1.1	-28.1	59.7	55.8	3.90	15.294		
1,200.0	1,197.3	1,198.0	1,197.4	2.4	2.1	160.17	1.3	-23.3	67.5	63.2	4.24	15.905		
1,300.0	1,296.9	1,297.3	1,296.6	2.7	2.3	166.09	1.5	-18.5	76.2	71.6	4.59	16.610		
1,400.0	1,396.5	1,396.7	1,395.8	2.9	2.5	170.77	1.8	-13.7	85.5	80.6	4.93	17.330		
1,500.0	1,496.1	1,496.0	1,495.1	3.1	2.7	174.51	2.0	-8.9	95.3	90.0	5.29	18.027		
1,600.0	1,595.7	1,595.4	1,594.3	3.4	2.9	177.54	2.2	-4.1	105.4	99.8	5.64	18.684		
1,700.0	1,695.3	1,694.7	1,693.5	3.6	3.1	-179.96	2.5	0.8	115.8	109.8	6.00	19.296		
1,800.0	1,794.9	1,794.0	1,792.7	3.8	3.3	-177.88	2.7	5.6	126.4	120.0	6.36	19.861		
1,900.0	1,894.5	1,893.4	1,892.0	4.1	3.5	-176.11	2.9	10.4	137.0	130.3	6.72	20.381		
2,000.0	1,994.1	1,992.7	1,991.2	4.3	3.7	-174.61	3.2	15.2	147.8	140.8	7.09	20.861		
2,100.0	2,093.7	2,092.1	2,090.4	4.5	3.8	-173.31	3.4	20.0	158.7	151.3	7.45	21.302		
2,200.0	2,193.2	2,191.4	2,189.7	4.8	4.0	-172.17	3.6	24.8	169.7	161.9	7.82	21.710		
2,300.0	2,292.8	2,290.8	2,288.9	5.0	4.2	-171.18	3.9	29.6	180.7	172.5	8.18	22.086		
2,400.0	2,392.4	2,390.1	2,388.1	5.2	4.4	-170.30	4.1	34.4	191.8	183.2	8.55	22.435		
2,500.0	2,492.0	2,489.5	2,487.3	5.5	4.6	-169.51	4.3	39.2	202.9	194.0	8.91	22.758		
2,600.0	2,591.6	2,588.8	2,586.6	5.7	4.8	-168.81	4.6	44.0	214.0	204.7	9.28	23.059		
2,700.0	2,691.2	2,688.2	2,685.8	5.9	5.0	-168.18	4.8	48.9	225.2	215.5	9.65	23.339		
2,800.0	2,790.8	2,787.5	2,785.0	6.2	5.2	-167.60	5.0	53.7	236.4	226.4	10.02	23.601		
2,900.0	2,890.4	2,886.8	2,884.3	6.4	5.4	-167.08	5.3	58.5	247.6	237.2	10.38	23.845		
3,000.0	2,990.0	2,986.2	2,983.5	6.6	5.6	-166.60	5.5	63.3	258.8	248.1	10.75	24.075		
3,100.0	3,089.6	3,085.5	3,082.7	6.9	5.8	-166.17	5.7	68.1	270.1	258.9	11.12	24.290		
3,200.0	3,189.2	3,184.9	3,181.9	7.1	6.0	-165.77	6.0	72.9	281.3	269.8	11.49	24.492		
3,300.0	3,288.8	3,284.2	3,281.2	7.3	6.1	-165.39	6.2	77.7	292.6	280.7	11.85	24.683		
3,400.0	3,388.4	3,383.6	3,380.4	7.6	6.3	-165.05	6.4	82.5	303.9	291.7	12.22	24.863		
3,500.0	3,488.0	3,482.9	3,479.6	7.8	6.5	-164.73	6.6	87.3	315.2	302.6	12.59	25.033		
3,600.0	3,587.6	3,582.3	3,578.9	8.0	6.7	-164.44	6.9	92.1	326.5	313.5	12.96	25.194		
3,700.0	3,687.2	3,681.6	3,678.1	8.3	6.9	-164.16	7.1	97.0	337.8	324.5	13.33	25.346		
3,800.0	3,786.8	3,780.9	3,777.3	8.5	7.1	-163.90	7.3	101.8	349.1	335.4	13.70	25.491		
3,900.0	3,886.4	3,880.3	3,876.5	8.7	7.3	-163.66	7.6	106.6	360.4	346.4	14.06	25.628		
4,000.0	3,986.0	3,979.6	3,975.8	9.0	7.5	-163.43	7.8	111.4	371.8	357.3	14.43	25.759		
4,100.0	4,085.6	4,079.0	4,075.0	9.2	7.7	-163.21	8.0	116.2	383.1	368.3	14.80	25.883		
4,200.0	4,185.2	4,178.3	4,174.2	9.4	7.9	-163.01	8.3	121.0	394.4	379.3	15.17	26.002		
4,300.0	4,284.8	4,277.7	4,273.5	9.7	8.1	-162.82	8.5	125.8	405.8	390.3	15.54	26.115		
4,400.0	4,384.4	4,377.0	4,372.7	9.9	8.3	-162.64	8.7	130.6	417.1	401.2	15.91	26.223		
4,500.0	4,484.0	4,476.4	4,471.9	10.1	8.5	-162.47	9.0	135.4	428.5	412.2	16.28	26.327		
4,600.0	4,583.6	4,575.7	4,571.1	10.4	8.6	-162.31	9.2	140.2	439.9	423.2	16.64	26.426		
4,700.0	4,683.2	4,675.1	4,670.4	10.6	8.8	-162.15	9.4	145.1	451.2	434.2	17.01	26.521		
4,800.0	4,782.8	4,774.4	4,769.6	10.8	9.0	-162.01	9.7	149.9	462.6	445.2	17.38	26.612		
4,900.0	4,882.4	4,873.7	4,868.8	11.1	9.2	-161.87	9.9	154.7	474.0	456.2	17.75	26.700		
5,000.0	4,982.0	4,973.1	4,968.1	11.3	9.4	-161.73	10.1	159.5	485.3	467.2	18.12	26.784		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,081.6	5,072.4	5,067.3	11.5	9.6	-161.61	10.4	164.3	496.7	478.2	18.49	26.864		
7,200.0	7,172.4	7,704.4	7,377.9	16.0	17.7	103.84	-550.0	276.3	483.6	451.3	32.28	14.981		
7,300.0	7,266.7	7,664.1	7,375.9	15.8	17.3	99.37	-509.7	276.2	454.8	423.1	31.67	14.360 SF		
7,398.3	7,352.6	7,621.0	7,370.7	15.5	16.8	94.17	-467.0	275.9	445.4	414.4	31.00	14.367		
7,400.0	7,354.0	7,620.3	7,370.5	15.5	16.8	94.07	-466.3	275.9	445.4	414.4	30.99	14.373		
7,500.0	7,431.5	7,574.6	7,361.4	15.1	16.4	87.43	-421.5	275.5	454.5	424.3	30.20	15.053		
7,600.0	7,496.9	7,527.8	7,348.4	14.7	15.9	79.78	-376.6	274.9	478.3	449.1	29.18	16.391		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3H-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-85.35	3.6	-44.8	44.9					
100.0	100.0	100.0	100.0	0.2	0.2	-85.35	3.6	-44.8	44.9	44.6	0.30	147.887		
200.0	200.0	200.0	200.0	0.3	0.3	79.35	3.6	-44.8	44.9	44.3	0.65	68.793		
300.0	300.0	300.0	300.0	0.5	0.5	80.89	3.6	-44.8	44.7	43.7	1.00	44.553		
400.0	399.9	400.3	400.3	0.7	0.7	84.77	3.7	-44.5	44.1	42.8	1.36	32.447		
500.0	499.8	500.9	500.9	0.9	0.9	91.80	3.8	-42.8	42.3	40.6	1.73	24.512		
600.0	599.6	601.2	601.1	1.1	1.0	103.01	4.1	-39.3	40.0	37.9	2.10	19.016		
691.1	690.4	692.2	692.0	1.3	1.2	117.45	4.4	-34.6	38.9	36.4	2.45	15.863	CC, ES	
700.0	699.3	701.1	700.9	1.3	1.2	119.12	4.5	-34.0	38.9	36.4	2.49	15.664		
800.0	798.9	800.6	800.1	1.5	1.4	137.70	5.0	-27.1	40.8	38.0	2.86	14.304	SF	
900.0	898.5	899.7	898.9	1.7	1.6	155.25	5.7	-18.5	46.3	43.1	3.22	14.392		
1,000.0	998.1	998.5	997.1	2.0	1.9	169.81	6.5	-8.3	55.4	51.8	3.59	15.434		
1,100.0	1,097.7	1,097.2	1,095.2	2.2	2.1	-179.84	7.3	2.2	67.1	63.1	3.97	16.912		
1,200.0	1,197.3	1,195.9	1,193.4	2.4	2.3	-172.70	8.1	12.7	80.3	76.0	4.35	18.450		
1,300.0	1,296.9	1,294.6	1,291.5	2.7	2.6	-167.62	8.9	23.2	94.4	89.7	4.74	19.907		
1,400.0	1,396.5	1,393.3	1,389.6	2.9	2.8	-163.88	9.7	33.7	109.0	103.9	5.13	21.238		
1,500.0	1,496.1	1,492.0	1,487.8	3.1	3.1	-161.02	10.6	44.2	124.0	118.5	5.53	22.439		
1,600.0	1,595.7	1,590.7	1,585.9	3.4	3.3	-158.79	11.4	54.8	139.3	133.3	5.92	23.517		
1,700.0	1,695.3	1,689.4	1,684.1	3.6	3.6	-157.00	12.2	65.3	154.7	148.3	6.32	24.485		
1,800.0	1,794.9	1,788.1	1,782.2	3.8	3.8	-155.53	13.0	75.8	170.2	163.5	6.71	25.357		
1,900.0	1,894.5	1,886.8	1,880.3	4.1	4.1	-154.31	13.8	86.3	185.8	178.7	7.11	26.143		
2,000.0	1,994.1	1,985.5	1,978.5	4.3	4.3	-153.27	14.6	96.8	201.5	194.0	7.50	26.855		
2,100.0	2,093.7	2,084.2	2,076.6	4.5	4.5	-152.39	15.4	107.3	217.2	209.3	7.90	27.502		
2,200.0	2,193.2	2,182.9	2,174.7	4.8	4.8	-151.63	16.3	117.8	233.0	224.7	8.29	28.093		
2,300.0	2,292.8	2,281.6	2,272.9	5.0	5.0	-150.96	17.1	128.3	248.8	240.1	8.69	28.634		
2,400.0	2,392.4	2,380.3	2,371.0	5.2	5.3	-150.37	17.9	138.9	264.6	255.5	9.08	29.130		
2,500.0	2,492.0	2,479.0	2,469.2	5.5	5.5	-149.85	18.7	149.4	280.5	271.0	9.48	29.587		
2,600.0	2,591.6	2,577.7	2,567.3	5.7	5.8	-149.38	19.5	159.9	296.4	286.5	9.88	30.010		
2,700.0	2,691.2	2,676.4	2,665.4	5.9	6.0	-148.97	20.3	170.4	312.3	302.0	10.27	30.402		
2,800.0	2,790.8	2,775.1	2,763.6	6.2	6.3	-148.59	21.2	180.9	328.2	317.5	10.67	30.765		
2,900.0	2,890.4	2,873.8	2,861.7	6.4	6.6	-148.25	22.0	191.4	344.1	333.0	11.06	31.104		
3,000.0	2,990.0	2,972.5	2,959.9	6.6	6.8	-147.93	22.8	201.9	360.1	348.6	11.46	31.420		
3,100.0	3,089.6	3,071.2	3,058.0	6.9	7.1	-147.65	23.6	212.4	376.0	364.1	11.86	31.716		
3,200.0	3,189.2	3,169.9	3,156.1	7.1	7.3	-147.39	24.4	223.0	392.0	379.7	12.25	31.994		
3,300.0	3,288.8	3,268.6	3,254.3	7.3	7.6	-147.14	25.2	233.5	407.9	395.3	12.65	32.254		
3,400.0	3,388.4	3,367.3	3,352.4	7.6	7.8	-146.92	26.1	244.0	423.9	410.8	13.04	32.499		
3,500.0	3,488.0	3,466.0	3,450.5	7.8	8.1	-146.71	26.9	254.5	439.9	426.4	13.44	32.730		
3,600.0	3,587.6	3,564.7	3,548.7	8.0	8.3	-146.52	27.7	265.0	455.9	442.0	13.84	32.949		
3,700.0	3,687.2	3,663.4	3,646.8	8.3	8.6	-146.34	28.5	275.5	471.8	457.6	14.23	33.155		
3,800.0	3,786.8	3,762.1	3,745.0	8.5	8.8	-146.17	29.3	286.0	487.8	473.2	14.63	33.350		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 31-32H-K268 - Hz - Plan #2													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-30.8	30.8	30.5	0.30	101.338		
200.0	200.0	200.0	200.0	0.3	0.3	74.71	0.0	-30.8	30.8	30.1	0.65	47.132		
208.0	208.0	208.0	208.0	0.3	0.3	74.77	0.0	-30.8	30.8	30.1	0.68	45.179	CC, ES	
300.0	300.0	299.5	299.5	0.5	0.5	76.24	-0.3	-31.6	31.3	30.3	1.00	31.178		
400.0	399.9	399.0	398.9	0.7	0.7	79.34	-1.4	-34.0	33.0	31.6	1.36	24.272		
500.0	499.8	498.4	498.2	0.9	0.9	83.45	-3.0	-37.9	36.0	34.3	1.73	20.878		
600.0	599.6	597.7	597.4	1.1	1.1	87.92	-5.4	-43.5	40.6	38.5	2.11	19.214		
700.0	699.3	696.8	696.2	1.3	1.3	92.22	-8.4	-50.6	46.7	44.2	2.52	18.516		
800.0	798.9	795.9	794.8	1.5	1.5	95.10	-12.1	-59.3	54.4	51.4	2.95	18.436	SF	
900.0	898.5	894.7	893.0	1.7	1.8	96.16	-16.4	-69.5	63.3	60.0	3.39	18.695		
1,000.0	998.1	993.4	990.8	2.0	2.0	96.00	-21.4	-81.3	73.5	69.7	3.84	19.162		
1,100.0	1,097.7	1,091.7	1,088.1	2.2	2.3	95.08	-27.0	-94.5	85.0	80.7	4.30	19.780		
1,200.0	1,197.3	1,189.8	1,184.8	2.4	2.6	93.69	-33.3	-109.3	97.7	92.9	4.76	20.523		
1,300.0	1,296.9	1,287.4	1,280.9	2.7	3.0	92.06	-40.2	-125.5	111.7	106.5	5.22	21.375		
1,400.0	1,396.5	1,384.6	1,376.2	2.9	3.3	90.32	-47.6	-143.1	127.1	121.4	5.69	22.326		
1,500.0	1,496.1	1,481.3	1,470.6	3.1	3.7	88.55	-55.7	-162.1	143.9	137.7	6.16	23.368		
1,600.0	1,595.7	1,578.6	1,565.4	3.4	4.1	86.84	-64.3	-182.5	162.0	155.3	6.62	24.468		
1,700.0	1,695.3	1,676.8	1,661.0	3.6	4.6	85.44	-73.1	-203.2	180.3	173.2	7.08	25.462		
1,800.0	1,794.9	1,775.1	1,756.6	3.8	5.0	84.29	-81.9	-224.0	198.7	191.2	7.54	26.350		
1,900.0	1,894.5	1,873.3	1,852.2	4.1	5.4	83.34	-90.7	-244.7	217.2	209.2	8.00	27.147		
2,000.0	1,994.1	1,971.5	1,947.8	4.3	5.8	82.54	-99.5	-265.4	235.7	227.2	8.46	27.866		
2,100.0	2,093.7	2,069.7	2,043.4	4.5	6.2	81.85	-108.3	-286.1	254.2	245.3	8.92	28.517		
2,200.0	2,193.2	2,167.9	2,139.0	4.8	6.7	81.26	-117.1	-306.9	272.8	263.5	9.37	29.108		
2,300.0	2,292.8	2,266.2	2,234.6	5.0	7.1	80.74	-125.8	-327.6	291.5	281.6	9.83	29.648		
2,400.0	2,392.4	2,364.4	2,330.3	5.2	7.5	80.29	-134.6	-348.3	310.1	299.8	10.29	30.143		
2,500.0	2,492.0	2,462.6	2,425.9	5.5	8.0	79.88	-143.4	-369.0	328.7	318.0	10.74	30.598		
2,600.0	2,591.6	2,560.8	2,521.5	5.7	8.4	79.52	-152.2	-389.8	347.4	336.2	11.20	31.018		
2,700.0	2,691.2	2,659.0	2,617.1	5.9	8.8	79.20	-161.0	-410.5	366.1	354.4	11.66	31.406		
2,800.0	2,790.8	2,757.3	2,712.7	6.2	9.3	78.91	-169.8	-431.2	384.8	372.7	12.11	31.766		
2,900.0	2,890.4	2,855.5	2,808.3	6.4	9.7	78.64	-178.6	-451.9	403.5	390.9	12.57	32.101		
3,000.0	2,990.0	2,953.7	2,903.9	6.6	10.1	78.40	-187.3	-472.7	422.2	409.2	13.03	32.413		
3,100.0	3,089.6	3,051.9	2,999.5	6.9	10.6	78.18	-196.1	-493.4	440.9	427.4	13.48	32.704		
3,200.0	3,189.2	3,150.1	3,095.1	7.1	11.0	77.98	-204.9	-514.1	459.6	445.7	13.94	32.977		
3,300.0	3,288.8	3,248.4	3,190.7	7.3	11.4	77.79	-213.7	-534.8	478.3	463.9	14.39	33.234		
3,400.0	3,388.4	3,346.6	3,286.3	7.6	11.9	77.62	-222.5	-555.6	497.1	482.2	14.85	33.475		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3J-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-81.77	3.6	-25.2	25.4					
100.0	100.0	100.0	100.0	0.2	0.2	-81.77	3.6	-25.2	25.4	25.1	0.30	83.776		
200.0	200.0	200.0	200.0	0.3	0.3	82.97	3.6	-25.2	25.4	24.8	0.65	38.969		
260.2	260.2	260.2	260.2	0.4	0.4	84.14	3.6	-25.2	25.4	24.5	0.86	29.393 CC		
300.0	300.0	299.8	299.8	0.5	0.5	85.41	3.5	-25.4	25.5	24.5	1.00	25.414 ES		
400.0	399.9	399.4	399.4	0.7	0.7	89.46	2.8	-26.9	26.7	25.3	1.36	19.645		
500.0	499.8	499.0	499.0	0.9	0.9	94.10	1.2	-30.0	29.3	27.6	1.73	16.994		
600.0	599.6	598.6	598.3	1.1	1.0	98.61	-1.1	-34.6	33.5	31.4	2.11	15.862		
700.0	699.3	698.0	697.5	1.3	1.3	102.51	-4.3	-40.8	39.2	36.7	2.52	15.552 SF		
800.0	798.9	797.3	796.5	1.5	1.5	104.57	-8.2	-48.5	46.2	43.3	2.95	15.677		
900.0	898.5	896.5	895.2	1.7	1.7	104.52	-12.8	-57.7	54.2	50.8	3.39	15.982		
1,000.0	998.1	995.6	993.5	2.0	2.0	103.18	-18.2	-68.4	63.1	59.2	3.84	16.407		
1,100.0	1,097.7	1,094.3	1,091.3	2.2	2.2	101.08	-24.4	-80.6	73.0	68.7	4.31	16.939		
1,200.0	1,197.3	1,192.8	1,188.6	2.4	2.5	98.57	-31.3	-94.2	84.1	79.3	4.78	17.580		
1,300.0	1,296.9	1,291.0	1,285.3	2.7	2.9	95.88	-38.9	-109.3	96.5	91.2	5.26	18.333		
1,400.0	1,396.5	1,388.7	1,381.2	2.9	3.2	93.18	-47.3	-125.8	110.1	104.4	5.74	19.195		
1,500.0	1,496.1	1,486.4	1,476.9	3.1	3.6	90.57	-56.3	-143.7	125.2	119.0	6.21	20.163		
1,600.0	1,595.7	1,585.1	1,573.4	3.4	4.0	88.38	-65.6	-162.1	140.8	134.1	6.68	21.083		
1,700.0	1,695.3	1,683.8	1,669.8	3.6	4.4	86.63	-75.0	-180.5	156.5	149.3	7.14	21.915		
1,800.0	1,794.9	1,782.4	1,766.3	3.8	4.8	85.20	-84.3	-198.9	172.3	164.7	7.60	22.667		
1,900.0	1,894.5	1,881.1	1,862.8	4.1	5.1	84.01	-93.6	-217.3	188.3	180.2	8.06	23.349		
2,000.0	1,994.1	1,979.7	1,959.2	4.3	5.5	83.01	-102.9	-235.8	204.3	195.8	8.52	23.967		
2,100.0	2,093.7	2,078.4	2,055.7	4.5	5.9	82.15	-112.2	-254.2	220.3	211.3	8.98	24.531		
2,200.0	2,193.2	2,177.0	2,152.2	4.8	6.3	81.41	-121.5	-272.6	236.4	227.0	9.44	25.046		
2,300.0	2,292.8	2,275.7	2,248.7	5.0	6.7	80.76	-130.9	-291.0	252.6	242.7	9.90	25.518		
2,400.0	2,392.4	2,374.3	2,345.1	5.2	7.1	80.20	-140.2	-309.4	268.7	258.4	10.35	25.952		
2,500.0	2,492.0	2,473.0	2,441.6	5.5	7.5	79.69	-149.5	-327.8	284.9	274.1	10.81	26.352		
2,600.0	2,591.6	2,571.6	2,538.1	5.7	7.9	79.24	-158.8	-346.2	301.1	289.8	11.27	26.722		
2,700.0	2,691.2	2,670.3	2,634.5	5.9	8.3	78.84	-168.1	-364.7	317.3	305.6	11.72	27.065		
2,800.0	2,790.8	2,768.9	2,731.0	6.2	8.7	78.47	-177.5	-383.1	333.5	321.4	12.18	27.384		
2,900.0	2,890.4	2,867.6	2,827.5	6.4	9.1	78.14	-186.8	-401.5	349.8	337.1	12.64	27.682		
3,000.0	2,990.0	2,966.2	2,923.9	6.6	9.5	77.84	-196.1	-419.9	366.0	352.9	13.09	27.959		
3,100.0	3,089.6	3,064.9	3,020.4	6.9	9.9	77.56	-205.4	-438.3	382.3	368.7	13.55	28.219		
3,200.0	3,189.2	3,163.5	3,116.9	7.1	10.3	77.31	-214.7	-456.7	398.6	384.6	14.00	28.463		
3,300.0	3,288.8	3,262.2	3,213.4	7.3	10.7	77.08	-224.0	-475.1	414.8	400.4	14.46	28.692		
3,400.0	3,388.4	3,360.9	3,309.8	7.6	11.1	76.86	-233.4	-493.5	431.1	416.2	14.91	28.908		
3,500.0	3,488.0	3,459.5	3,406.3	7.8	11.5	76.66	-242.7	-512.0	447.4	432.0	15.37	29.111		
3,600.0	3,587.6	3,558.2	3,502.8	8.0	11.9	76.47	-252.0	-530.4	463.7	447.9	15.82	29.303		
3,700.0	3,687.2	3,656.8	3,599.2	8.3	12.3	76.30	-261.3	-548.8	480.0	463.7	16.28	29.484		
3,800.0	3,786.8	3,755.5	3,695.7	8.5	12.7	76.14	-270.6	-567.2	496.3	479.6	16.73	29.657		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3K-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-19.6	19.6	19.3	0.30	64.488		
200.0	200.0	200.0	200.0	0.3	0.3	74.76	0.0	-19.6	19.6	18.9	0.65	29.988		
300.0	300.0	300.0	300.0	0.5	0.5	78.26	0.0	-19.6	19.3	18.3	1.00	19.229		
377.0	376.9	376.9	376.9	0.6	0.6	84.43	0.0	-19.6	19.0	17.7	1.28	14.894 CC		
400.0	399.9	399.8	399.8	0.7	0.7	86.61	-0.1	-19.8	19.1	17.7	1.36	14.027 ES		
500.0	499.8	499.6	499.5	0.9	0.9	96.33	-1.1	-21.2	20.3	18.5	1.72	11.755		
600.0	599.6	599.3	599.2	1.1	1.0	105.00	-3.1	-24.0	23.2	21.1	2.10	11.015 SF		
700.0	699.3	699.0	698.8	1.3	1.2	111.55	-6.1	-28.3	27.7	25.2	2.50	11.066		
800.0	798.9	798.7	798.2	1.5	1.4	114.54	-10.0	-34.0	33.2	30.3	2.91	11.400		
900.0	898.5	898.3	897.5	1.7	1.6	114.19	-15.0	-41.1	39.2	35.8	3.34	11.728		
1,000.0	998.1	997.9	996.5	2.0	1.9	111.85	-20.9	-49.6	45.7	41.9	3.79	12.045		
1,100.0	1,097.7	1,097.3	1,095.2	2.2	2.1	108.32	-27.8	-59.5	52.8	48.6	4.26	12.395		
1,200.0	1,197.3	1,196.5	1,193.4	2.4	2.4	104.16	-35.7	-70.8	60.9	56.1	4.75	12.824		
1,300.0	1,296.9	1,295.6	1,291.3	2.7	2.7	99.80	-44.5	-83.4	70.0	64.8	5.23	13.371		
1,400.0	1,396.5	1,395.0	1,389.5	2.9	3.0	96.17	-53.5	-96.4	79.6	73.9	5.71	13.937		
1,500.0	1,496.1	1,494.4	1,487.6	3.1	3.3	93.33	-62.6	-109.4	89.5	83.4	6.19	14.468		
1,600.0	1,595.7	1,593.9	1,585.8	3.4	3.6	91.06	-71.7	-122.4	99.6	93.0	6.66	14.959		
1,700.0	1,695.3	1,693.3	1,683.9	3.6	3.9	89.21	-80.7	-135.4	109.8	102.7	7.13	15.408		
1,800.0	1,794.9	1,792.7	1,782.1	3.8	4.2	87.68	-89.8	-148.4	120.1	112.5	7.59	15.819		
1,900.0	1,894.5	1,892.1	1,880.2	4.1	4.6	86.39	-98.9	-161.4	130.5	122.4	8.06	16.194		
2,000.0	1,994.1	1,991.5	1,978.4	4.3	4.9	85.29	-108.0	-174.5	140.9	132.4	8.52	16.538		
2,100.0	2,093.7	2,091.0	2,076.5	4.5	5.2	84.34	-117.0	-187.5	151.4	142.4	8.98	16.853		
2,200.0	2,193.2	2,190.4	2,174.7	4.8	5.5	83.51	-126.1	-200.5	161.9	152.5	9.44	17.142		
2,300.0	2,292.8	2,289.8	2,272.8	5.0	5.8	82.79	-135.2	-213.5	172.4	162.5	9.91	17.408		
2,400.0	2,392.4	2,389.2	2,370.9	5.2	6.2	82.14	-144.2	-226.5	183.0	172.6	10.37	17.654		
2,500.0	2,492.0	2,488.6	2,469.1	5.5	6.5	81.57	-153.3	-239.5	193.6	182.8	10.83	17.881		
2,600.0	2,591.6	2,588.1	2,567.2	5.7	6.8	81.06	-162.4	-252.5	204.2	192.9	11.29	18.092		
2,700.0	2,691.2	2,687.5	2,665.4	5.9	7.1	80.60	-171.4	-265.5	214.8	203.0	11.74	18.288		
2,800.0	2,790.8	2,786.9	2,763.5	6.2	7.5	80.18	-180.5	-278.5	225.4	213.2	12.20	18.471		
2,900.0	2,890.4	2,886.3	2,861.7	6.4	7.8	79.80	-189.6	-291.5	236.0	223.4	12.66	18.641		
3,000.0	2,990.0	2,985.7	2,959.8	6.6	8.1	79.45	-198.6	-304.5	246.7	233.6	13.12	18.801		
3,100.0	3,089.6	3,085.2	3,058.0	6.9	8.4	79.13	-207.7	-317.6	257.3	243.8	13.58	18.950		
3,200.0	3,189.2	3,184.6	3,156.1	7.1	8.8	78.84	-216.8	-330.6	268.0	254.0	14.04	19.091		
3,300.0	3,288.8	3,284.0	3,254.3	7.3	9.1	78.57	-225.8	-343.6	278.7	264.2	14.50	19.223		
3,400.0	3,388.4	3,383.4	3,352.4	7.6	9.4	78.32	-234.9	-356.6	289.3	274.4	14.95	19.348		
3,500.0	3,488.0	3,482.9	3,450.6	7.8	9.7	78.08	-244.0	-369.6	300.0	284.6	15.41	19.465		
3,600.0	3,587.6	3,582.3	3,548.7	8.0	10.1	77.86	-253.0	-382.6	310.7	294.8	15.87	19.577		
3,700.0	3,687.2	3,681.7	3,646.9	8.3	10.4	77.66	-262.1	-395.6	321.4	305.1	16.33	19.682		
3,800.0	3,786.8	3,781.1	3,745.0	8.5	10.7	77.47	-271.2	-408.6	332.1	315.3	16.79	19.782		
3,900.0	3,886.4	3,880.5	3,843.2	8.7	11.1	77.29	-280.2	-421.6	342.8	325.5	17.25	19.877		
4,000.0	3,986.0	3,980.0	3,941.3	9.0	11.4	77.13	-289.3	-434.6	353.5	335.8	17.70	19.967		
4,100.0	4,085.6	4,079.4	4,039.5	9.2	11.7	76.97	-298.4	-447.6	364.2	346.0	18.16	20.053		
4,200.0	4,185.2	4,178.8	4,137.6	9.4	12.0	76.82	-307.4	-460.6	374.9	356.3	18.62	20.134		
4,300.0	4,284.8	4,278.2	4,235.8	9.7	12.4	76.68	-316.5	-473.7	385.6	366.5	19.08	20.212		
4,400.0	4,384.4	4,377.6	4,333.9	9.9	12.7	76.55	-325.6	-486.7	396.3	376.7	19.53	20.287		
4,500.0	4,484.0	4,477.1	4,432.1	10.1	13.0	76.42	-334.6	-499.7	407.0	387.0	19.99	20.358		
4,600.0	4,583.6	4,576.5	4,530.2	10.4	13.3	76.30	-343.7	-512.7	417.7	397.2	20.45	20.426		
4,700.0	4,683.2	4,675.9	4,628.4	10.6	13.7	76.19	-352.8	-525.7	428.4	407.5	20.91	20.491		
4,800.0	4,782.8	4,775.3	4,726.5	10.8	14.0	76.08	-361.8	-538.7	439.1	417.8	21.36	20.554		
4,900.0	4,882.4	4,874.8	4,824.7	11.1	14.3	75.98	-370.9	-551.7	449.8	428.0	21.82	20.614		
5,000.0	4,982.0	4,974.2	4,922.8	11.3	14.7	75.88	-380.0	-564.7	460.6	438.3	22.28	20.672		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,081.6	5,073.6	5,021.0	11.5	15.0	75.79	-389.0	-577.7	471.3	448.5	22.74	20.727		
5,200.0	5,181.2	5,173.0	5,119.1	11.8	15.3	75.70	-398.1	-590.7	482.0	458.8	23.19	20.780		
5,300.0	5,280.8	5,272.4	5,217.3	12.0	15.6	75.61	-407.2	-603.7	492.7	469.1	23.65	20.832		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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 Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-77.76	3.6	-16.8	17.2					
100.0	100.0	100.0	100.0	0.2	0.2	-77.76	3.6	-16.8	17.2	16.9	0.30	56.562		
200.0	200.0	200.0	200.0	0.3	0.3	87.02	3.6	-16.8	17.2	16.5	0.65	26.312		
283.1	283.1	283.1	283.1	0.5	0.5	90.00	3.6	-16.8	17.2	16.2	0.94	18.168 CC		
300.0	300.0	300.0	300.0	0.5	0.5	91.10	3.6	-16.8	17.2	16.2	1.00	17.100		
400.0	399.9	399.9	399.9	0.7	0.7	100.87	3.6	-16.8	17.5	16.1	1.36	12.856 ES		
500.0	499.8	499.8	499.8	0.9	0.8	114.33	3.5	-16.9	19.0	17.2	1.72	11.025		
600.0	599.6	599.7	599.7	1.1	1.0	125.08	2.3	-18.2	22.2	20.1	2.08	10.661		
700.0	699.3	699.6	699.5	1.3	1.2	131.95	-0.1	-20.7	26.9	24.4	2.46	10.953		
800.0	798.9	799.6	799.3	1.5	1.4	134.70	-3.7	-24.5	32.0	29.1	2.84	11.266		
900.0	898.5	899.6	899.1	1.7	1.6	134.07	-8.5	-29.6	36.7	33.4	3.24	11.320		
1,000.0	998.1	999.6	998.8	2.0	1.8	131.19	-14.4	-35.9	41.0	37.4	3.67	11.187		
1,100.0	1,097.7	1,099.6	1,098.2	2.2	2.0	126.68	-21.6	-43.5	45.3	41.1	4.13	10.963		
1,200.0	1,197.3	1,199.4	1,197.3	2.4	2.3	121.80	-29.4	-51.9	49.7	45.1	4.61	10.791		
1,300.0	1,296.9	1,299.2	1,296.5	2.7	2.5	117.74	-37.3	-60.2	54.5	49.4	5.09	10.700		
1,400.0	1,396.5	1,399.0	1,395.7	2.9	2.8	114.34	-45.2	-68.5	59.5	53.9	5.58	10.664		
1,500.0	1,496.1	1,498.8	1,494.8	3.1	3.0	111.48	-53.0	-76.8	64.6	58.6	6.06	10.662		
1,600.0	1,595.7	1,598.7	1,594.0	3.4	3.3	109.04	-60.9	-85.2	69.9	63.4	6.55	10.683		
1,700.0	1,695.3	1,698.5	1,693.1	3.6	3.5	106.95	-68.7	-93.5	75.3	68.3	7.03	10.719		
1,800.0	1,794.9	1,798.3	1,792.3	3.8	3.8	105.14	-76.6	-101.8	80.8	73.3	7.51	10.764		
1,900.0	1,894.5	1,898.1	1,891.5	4.1	4.0	103.57	-84.4	-110.1	86.4	78.4	7.99	10.814		
2,000.0	1,994.1	1,997.9	1,990.6	4.3	4.3	102.18	-92.3	-118.4	92.0	83.6	8.47	10.866		
2,100.0	2,093.7	2,097.7	2,089.8	4.5	4.6	100.96	-100.1	-126.8	97.7	88.8	8.95	10.920		
2,200.0	2,193.2	2,197.6	2,188.9	4.8	4.8	99.87	-108.0	-135.1	103.4	94.0	9.42	10.974		
2,300.0	2,292.8	2,297.4	2,288.1	5.0	5.1	98.89	-115.8	-143.4	109.1	99.3	9.90	11.027		
2,400.0	2,392.4	2,397.2	2,387.3	5.2	5.3	98.01	-123.7	-151.7	114.9	104.5	10.37	11.078		
2,500.0	2,492.0	2,497.0	2,486.4	5.5	5.6	97.22	-131.6	-160.1	120.7	109.9	10.85	11.129		
2,600.0	2,591.6	2,596.8	2,585.6	5.7	5.9	96.50	-139.4	-168.4	126.5	115.2	11.32	11.177		
2,700.0	2,691.2	2,696.7	2,684.7	5.9	6.1	95.84	-147.3	-176.7	132.4	120.6	11.79	11.224		
2,800.0	2,790.8	2,796.5	2,783.9	6.2	6.4	95.24	-155.1	-185.0	138.2	126.0	12.27	11.268		
2,900.0	2,890.4	2,896.3	2,883.1	6.4	6.7	94.69	-163.0	-193.4	144.1	131.3	12.74	11.311		
3,000.0	2,990.0	2,996.1	2,982.2	6.6	6.9	94.18	-170.8	-201.7	150.0	136.8	13.21	11.353		
3,100.0	3,089.6	3,095.9	3,081.4	6.9	7.2	93.70	-178.7	-210.0	155.8	142.2	13.68	11.392		
3,200.0	3,189.2	3,195.8	3,180.5	7.1	7.4	93.27	-186.5	-218.3	161.7	147.6	14.15	11.430		
3,300.0	3,288.8	3,295.6	3,279.7	7.3	7.7	92.86	-194.4	-226.7	167.7	153.0	14.62	11.466		
3,400.0	3,388.4	3,395.4	3,378.9	7.6	8.0	92.48	-202.2	-235.0	173.6	158.5	15.09	11.501		
3,500.0	3,488.0	3,495.2	3,478.0	7.8	8.2	92.13	-210.1	-243.3	179.5	163.9	15.56	11.534		
3,600.0	3,587.6	3,595.0	3,577.2	8.0	8.5	91.80	-218.0	-251.6	185.4	169.4	16.03	11.566		
3,700.0	3,687.2	3,694.8	3,676.3	8.3	8.8	91.49	-225.8	-259.9	191.3	174.8	16.50	11.596		
3,800.0	3,786.8	3,794.7	3,775.5	8.5	9.0	91.20	-233.7	-268.3	197.3	180.3	16.97	11.625		
3,900.0	3,886.4	3,894.5	3,874.7	8.7	9.3	90.92	-241.5	-276.6	203.2	185.8	17.44	11.653		
4,000.0	3,986.0	3,994.3	3,973.8	9.0	9.6	90.66	-249.4	-284.9	209.2	191.3	17.91	11.680		
4,100.0	4,085.6	4,094.1	4,073.0	9.2	9.8	90.42	-257.2	-293.2	215.1	196.8	18.38	11.706		
4,200.0	4,185.2	4,193.9	4,172.1	9.4	10.1	90.19	-265.1	-301.6	221.1	202.2	18.85	11.731		
4,300.0	4,284.8	4,293.8	4,271.3	9.7	10.3	89.97	-272.9	-309.9	227.0	207.7	19.32	11.755		
4,400.0	4,384.4	4,393.6	4,370.5	9.9	10.6	89.76	-280.8	-318.2	233.0	213.2	19.78	11.778		
4,500.0	4,484.0	4,493.4	4,469.6	10.1	10.9	89.56	-288.6	-326.5	239.0	218.7	20.25	11.800		
4,600.0	4,583.6	4,593.2	4,568.8	10.4	11.1	89.37	-296.5	-334.9	244.9	224.2	20.72	11.821		
4,700.0	4,683.2	4,693.0	4,667.9	10.6	11.4	89.19	-304.4	-343.2	250.9	229.7	21.19	11.842		
4,800.0	4,782.8	4,792.8	4,767.1	10.8	11.7	89.02	-312.2	-351.5	256.9	235.2	21.66	11.862		
4,900.0	4,882.4	4,892.7	4,866.3	11.1	11.9	88.86	-320.1	-359.8	262.9	240.7	22.12	11.881		
5,000.0	4,982.0	4,992.5	4,965.4	11.3	12.2	88.70	-327.9	-368.2	268.8	246.2	22.59	11.899		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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 Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,081.6	5,092.3	5,064.6	11.5	12.5	88.55	-335.8	-376.5	274.8	251.8	23.06	11.917		
5,200.0	5,181.2	5,192.1	5,163.7	11.8	12.7	88.41	-343.6	-384.8	280.8	257.3	23.53	11.934		
5,300.0	5,280.8	5,291.9	5,262.9	12.0	13.0	88.27	-351.5	-393.1	286.8	262.8	24.00	11.951		
5,400.0	5,380.4	5,391.8	5,362.1	12.2	13.3	88.14	-359.3	-401.4	292.8	268.3	24.46	11.967		
5,500.0	5,480.0	5,491.6	5,461.2	12.5	13.5	88.02	-367.2	-409.8	298.7	273.8	24.93	11.983		
5,600.0	5,579.6	5,591.4	5,560.4	12.7	13.8	87.90	-375.0	-418.1	304.7	279.3	25.40	11.998		
5,700.0	5,679.2	5,691.2	5,659.5	12.9	14.1	87.78	-382.9	-426.4	310.7	284.9	25.87	12.012		
5,800.0	5,778.8	5,791.0	5,758.7	13.2	14.3	87.67	-390.7	-434.7	316.7	290.4	26.33	12.027		
5,900.0	5,878.4	5,890.9	5,857.9	13.4	14.6	87.56	-398.6	-443.1	322.7	295.9	26.80	12.040		
6,000.0	5,978.0	5,990.7	5,957.0	13.6	14.8	87.46	-406.5	-451.4	328.7	301.4	27.27	12.054		
6,100.0	6,077.5	6,090.5	6,056.2	13.9	15.1	87.36	-414.3	-459.7	334.7	306.9	27.74	12.067		
6,200.0	6,177.1	6,190.3	6,155.4	14.1	15.4	87.26	-422.2	-468.0	340.7	312.5	28.20	12.079		
6,300.0	6,276.7	6,290.1	6,254.5	14.4	15.6	87.17	-430.0	-476.4	346.7	318.0	28.67	12.091		
6,400.0	6,376.3	6,389.9	6,353.7	14.6	15.9	87.08	-437.9	-484.7	352.7	323.5	29.14	12.103		
6,500.0	6,475.9	6,489.8	6,452.8	14.8	16.2	86.99	-445.7	-493.0	358.7	329.1	29.61	12.115		
6,600.0	6,575.5	6,589.6	6,552.0	15.1	16.4	86.91	-453.6	-501.3	364.7	334.6	30.07	12.126		
6,700.0	6,675.1	6,689.4	6,651.2	15.3	16.7	86.82	-461.4	-509.7	370.7	340.1	30.54	12.137		
6,800.0	6,774.7	6,789.2	6,750.3	15.5	17.0	86.75	-469.3	-518.0	376.7	345.7	31.01	12.147		
6,900.0	6,874.3	6,877.6	6,838.3	15.8	17.1	87.42	-471.1	-525.4	384.0	352.5	31.41	12.223		
7,000.0	6,973.9	6,960.9	6,920.6	16.0	17.2	89.79	-460.6	-532.3	395.1	363.3	31.81	12.421		
7,100.0	7,073.8	7,039.8	6,996.2	16.1	17.1	-47.96	-439.6	-538.6	409.2	377.1	32.06	12.762		
7,200.0	7,172.4	7,116.5	7,066.5	16.0	17.0	-58.91	-409.4	-544.5	422.7	390.9	31.80	13.291		
7,300.0	7,266.7	7,191.7	7,130.8	15.8	16.9	-58.62	-371.0	-549.9	434.8	403.7	31.06	13.999		
7,400.0	7,354.0	7,265.8	7,188.7	15.5	16.7	-57.49	-325.2	-554.8	444.7	414.8	29.90	14.870		
7,500.0	7,431.5	7,339.0	7,239.7	15.1	16.6	-56.53	-272.9	-559.1	451.9	423.4	28.49	15.860		
7,600.0	7,496.9	7,411.6	7,283.4	14.7	16.5	-55.97	-215.0	-562.7	456.1	429.1	27.03	16.871		
7,700.0	7,548.3	7,484.1	7,319.3	14.4	16.4	-55.91	-152.2	-565.7	457.1	431.3	25.79	17.725		
7,800.0	7,584.0	7,550.0	7,344.8	14.2	16.4	-56.34	-91.5	-567.9	454.8	429.8	25.01	18.181		
7,900.0	7,602.9	7,629.2	7,366.1	14.2	16.5	-57.40	-15.3	-569.7	449.2	424.2	24.94	18.007		
8,000.0	7,606.0	7,700.0	7,376.1	14.4	16.6	-58.56	54.8	-570.5	441.4	415.9	25.50	17.312		
8,100.0	7,606.0	7,787.5	7,378.0	14.8	16.9	-58.57	142.2	-570.7	437.4	411.1	26.27	16.654		
8,200.0	7,606.0	7,887.4	7,378.0	15.4	17.4	-58.33	242.1	-570.7	434.4	407.1	27.35	15.887		
8,300.0	7,606.0	7,987.3	7,378.0	16.2	18.1	-58.09	342.0	-570.7	431.5	402.8	28.69	15.042		
8,400.0	7,606.0	8,087.3	7,378.0	17.1	18.9	-57.84	442.0	-570.7	428.5	398.3	30.25	14.167		
8,500.0	7,606.0	8,187.2	7,378.0	18.2	19.8	-57.59	541.9	-570.7	425.6	393.6	32.00	13.300		
8,600.0	7,606.0	8,287.2	7,378.0	19.3	20.9	-57.34	641.9	-570.7	422.6	388.7	33.90	12.467		
8,700.0	7,606.0	8,387.1	7,378.0	20.6	22.0	-57.08	741.8	-570.7	419.7	383.8	35.92	11.682		
8,800.0	7,606.0	8,487.0	7,378.0	21.9	23.2	-56.82	841.7	-570.7	416.8	378.7	38.05	10.953		
8,900.0	7,606.0	8,587.0	7,378.0	23.2	24.5	-56.55	941.7	-570.7	413.8	373.6	40.25	10.281		
9,000.0	7,606.0	8,686.9	7,378.0	24.7	25.8	-56.28	1,041.6	-570.7	410.9	368.4	42.52	9.664		
9,100.0	7,606.0	8,786.8	7,378.0	26.1	27.2	-56.01	1,141.6	-570.7	408.0	363.2	44.84	9.100		
9,200.0	7,606.0	8,886.8	7,378.0	27.6	28.6	-55.74	1,241.5	-570.7	405.1	358.0	47.19	8.585		
9,300.0	7,606.0	8,986.7	7,378.0	29.1	30.1	-55.46	1,341.4	-570.7	402.3	352.7	49.58	8.114		
9,400.0	7,606.0	9,086.7	7,378.0	30.7	31.5	-55.17	1,441.4	-570.7	399.4	347.4	51.98	7.683		
9,500.0	7,606.0	9,186.6	7,378.0	32.2	33.1	-54.89	1,541.3	-570.7	396.5	342.1	54.40	7.289		
9,600.0	7,606.0	9,286.5	7,378.0	33.8	34.6	-54.59	1,641.3	-570.7	393.7	336.9	56.82	6.928		
9,700.0	7,606.0	9,386.5	7,378.0	35.4	36.1	-54.30	1,741.2	-570.7	390.8	331.6	59.25	6.596		
9,800.0	7,606.0	9,486.4	7,378.0	37.0	37.7	-54.00	1,841.1	-570.7	388.0	326.3	61.68	6.291		
9,900.0	7,606.0	9,586.4	7,378.0	38.7	39.3	-53.69	1,941.1	-570.7	385.2	321.1	64.10	6.009		
10,000.0	7,606.0	9,686.3	7,378.0	40.3	40.9	-53.38	2,041.0	-570.7	382.4	315.9	66.52	5.749		
10,100.0	7,606.0	9,786.2	7,378.0	41.9	42.5	-53.07	2,140.9	-570.7	379.6	310.7	68.92	5.507		
10,200.0	7,606.0	9,886.2	7,378.0	43.6	44.1	-52.75	2,240.9	-570.7	376.8	305.5	71.32	5.284		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset				Semi Major Axis		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,300.0	7,606.0	9,986.1	7,378.0	45.3	45.8	-52.42	2,340.8	-570.7	374.0	300.3	73.69	5.076			
10,400.0	7,606.0	10,086.1	7,378.0	46.9	47.4	-52.10	2,440.8	-570.7	371.3	295.2	76.05	4.882			
10,500.0	7,606.0	10,186.0	7,378.0	48.6	49.0	-51.80	2,540.7	-570.7	368.7	290.4	78.30	4.709			
10,546.5	7,606.0	10,232.5	7,378.0	49.4	49.8	-51.76	2,587.2	-570.7	368.3	289.0	79.31	4.644			
10,600.0	7,606.0	10,286.0	7,378.0	50.3	50.7	-51.81	2,640.7	-570.7	368.8	288.3	80.53	4.580			
10,700.0	7,606.0	10,385.9	7,378.0	52.0	52.4	-52.19	2,740.6	-570.7	372.4	289.5	82.99	4.488			
10,800.0	7,606.0	10,485.5	7,378.0	53.6	54.0	-52.91	2,840.2	-570.7	379.6	293.9	85.65	4.432			
10,900.0	7,606.0	10,584.6	7,378.0	55.3	55.7	-53.93	2,939.3	-570.7	390.3	301.9	88.48	4.412 SF			
11,000.0	7,606.0	10,683.0	7,378.0	56.9	57.3	-55.19	3,037.7	-570.7	404.9	313.5	91.39	4.430			
11,071.9	7,606.0	10,753.2	7,378.0	58.1	58.5	-56.27	3,107.9	-570.7	417.6	323.6	93.91	4.446			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3N-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	37.53	3.6	2.8	4.6					
100.0	100.0	100.0	100.0	0.2	0.2	37.53	3.6	2.8	4.6	4.3	0.30	15.125	CC	
158.3	158.3	158.3	158.3	0.3	0.3	-158.09	3.6	2.8	4.6	4.1	0.51	9.162		
200.0	200.0	200.0	200.0	0.3	0.3	-157.98	3.6	2.8	4.6	4.0	0.65	7.086	ES	
300.0	300.0	300.0	300.0	0.5	0.5	-162.52	3.6	2.8	5.8	4.8	1.00	5.766		
400.0	399.9	400.1	400.0	0.7	0.7	-164.55	2.8	3.0	8.0	6.6	1.35	5.908		
500.0	499.8	500.1	500.1	0.9	0.9	-161.83	0.2	3.5	10.6	8.9	1.70	6.218		
600.0	599.6	600.2	600.1	1.1	1.0	-157.35	-4.1	4.3	13.7	11.6	2.06	6.623		
700.0	699.3	700.3	700.0	1.3	1.2	-152.43	-10.1	5.5	17.3	14.9	2.44	7.091		
800.0	798.9	800.4	799.8	1.5	1.4	-146.29	-17.8	7.1	20.8	17.9	2.85	7.303		
900.0	898.5	900.4	899.3	1.7	1.7	-138.90	-26.8	8.9	23.9	20.6	3.28	7.267		
1,000.0	998.1	1,000.3	998.8	2.0	1.9	-133.02	-36.0	10.7	27.2	23.5	3.74	7.283		
1,100.0	1,097.7	1,100.2	1,098.3	2.2	2.1	-128.47	-45.2	12.6	30.8	26.6	4.20	7.334		
1,200.0	1,197.3	1,200.1	1,197.7	2.4	2.4	-124.87	-54.4	14.4	34.5	29.9	4.66	7.402		
1,300.0	1,296.9	1,300.0	1,297.2	2.7	2.6	-121.99	-63.6	16.3	38.3	33.2	5.13	7.476		
1,400.0	1,396.5	1,399.9	1,396.7	2.9	2.8	-119.64	-72.8	18.1	42.3	36.7	5.60	7.550		
1,500.0	1,496.1	1,499.9	1,496.2	3.1	3.0	-117.68	-81.9	19.9	46.2	40.2	6.07	7.622		
1,600.0	1,595.7	1,599.8	1,595.6	3.4	3.3	-116.04	-91.1	21.8	50.2	43.7	6.53	7.690		
1,700.0	1,695.3	1,699.7	1,695.1	3.6	3.5	-114.64	-100.3	23.6	54.3	47.3	7.00	7.754		
1,800.0	1,794.9	1,799.6	1,794.6	3.8	3.8	-113.44	-109.5	25.5	58.4	50.9	7.47	7.814		
1,900.0	1,894.5	1,899.5	1,894.0	4.1	4.0	-112.39	-118.7	27.3	62.5	54.5	7.94	7.870		
2,000.0	1,994.1	1,999.4	1,993.5	4.3	4.2	-111.48	-127.9	29.1	66.6	58.2	8.41	7.922		
2,100.0	2,093.7	2,099.3	2,093.0	4.5	4.5	-110.67	-137.0	31.0	70.7	61.9	8.87	7.970		
2,200.0	2,193.2	2,199.2	2,192.4	4.8	4.7	-109.95	-146.2	32.8	74.9	65.5	9.34	8.015		
2,300.0	2,292.8	2,299.1	2,291.9	5.0	4.9	-109.30	-155.4	34.6	79.0	69.2	9.81	8.056		
2,400.0	2,392.4	2,399.0	2,391.4	5.2	5.2	-108.72	-164.6	36.5	83.2	72.9	10.28	8.095		
2,500.0	2,492.0	2,499.0	2,490.8	5.5	5.4	-108.20	-173.8	38.3	87.4	76.6	10.75	8.131		
2,600.0	2,591.6	2,598.9	2,590.3	5.7	5.7	-107.72	-183.0	40.2	91.6	80.3	11.21	8.165		
2,700.0	2,691.2	2,698.8	2,689.8	5.9	5.9	-107.29	-192.1	42.0	95.7	84.1	11.68	8.197		
2,800.0	2,790.8	2,798.7	2,789.3	6.2	6.1	-106.89	-201.3	43.8	99.9	87.8	12.15	8.226		
2,900.0	2,890.4	2,898.6	2,888.7	6.4	6.4	-106.52	-210.5	45.7	104.1	91.5	12.62	8.254		
3,000.0	2,990.0	2,998.5	2,988.2	6.6	6.6	-106.18	-219.7	47.5	108.3	95.2	13.08	8.281		
3,100.0	3,089.6	3,098.4	3,087.7	6.9	6.8	-105.87	-228.9	49.4	112.5	99.0	13.55	8.305		
3,200.0	3,189.2	3,198.3	3,187.1	7.1	7.1	-105.58	-238.1	51.2	116.7	102.7	14.02	8.329		
3,300.0	3,288.8	3,298.2	3,286.6	7.3	7.3	-105.31	-247.2	53.0	121.0	106.5	14.48	8.351		
3,400.0	3,388.4	3,398.1	3,386.1	7.6	7.6	-105.06	-256.4	54.9	125.2	110.2	14.95	8.371		
3,500.0	3,488.0	3,498.1	3,485.5	7.8	7.8	-104.82	-265.6	56.7	129.4	114.0	15.42	8.391		
3,600.0	3,587.6	3,598.0	3,585.0	8.0	8.0	-104.60	-274.8	58.6	133.6	117.7	15.89	8.410		
3,700.0	3,687.2	3,697.9	3,684.5	8.3	8.3	-104.39	-284.0	60.4	137.8	121.5	16.35	8.428		
3,800.0	3,786.8	3,797.8	3,784.0	8.5	8.5	-104.20	-293.2	62.2	142.0	125.2	16.82	8.445		
3,900.0	3,886.4	3,897.7	3,883.4	8.7	8.7	-104.01	-302.3	64.1	146.3	129.0	17.29	8.461		
4,000.0	3,986.0	3,997.6	3,982.9	9.0	9.0	-103.84	-311.5	65.9	150.5	132.7	17.75	8.476		
4,100.0	4,085.6	4,097.5	4,082.4	9.2	9.2	-103.68	-320.7	67.8	154.7	136.5	18.22	8.491		
4,200.0	4,185.2	4,197.4	4,181.8	9.4	9.5	-103.52	-329.9	69.6	158.9	140.2	18.69	8.505		
4,300.0	4,284.8	4,297.3	4,281.3	9.7	9.7	-103.37	-339.1	71.4	163.2	144.0	19.15	8.518		
4,400.0	4,384.4	4,397.2	4,380.8	9.9	9.9	-103.23	-348.3	73.3	167.4	147.8	19.62	8.531		
4,500.0	4,484.0	4,497.1	4,480.2	10.1	10.2	-103.10	-357.4	75.1	171.6	151.5	20.09	8.543		
4,600.0	4,583.6	4,597.1	4,579.7	10.4	10.4	-102.98	-366.6	76.9	175.8	155.3	20.55	8.555		
4,700.0	4,683.2	4,697.0	4,679.2	10.6	10.7	-102.86	-375.8	78.8	180.1	159.0	21.02	8.566		
4,800.0	4,782.8	4,796.9	4,778.7	10.8	10.9	-102.74	-385.0	80.6	184.3	162.8	21.49	8.577		
4,900.0	4,882.4	4,896.8	4,878.1	11.1	11.1	-102.63	-394.2	82.5	188.5	166.6	21.96	8.587		
5,000.0	4,982.0	4,996.7	4,977.6	11.3	11.4	-102.53	-403.4	84.3	192.8	170.3	22.42	8.597		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3N-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,081.6	5,096.6	5,077.1	11.5	11.6	-102.43	-412.5	86.1	197.0	174.1	22.89	8.607		
5,200.0	5,181.2	5,196.5	5,176.5	11.8	11.8	-102.33	-421.7	88.0	201.2	177.9	23.36	8.616		
5,300.0	5,280.8	5,296.4	5,276.0	12.0	12.1	-102.24	-430.9	89.8	205.5	181.6	23.82	8.625		
5,400.0	5,380.4	5,396.3	5,375.5	12.2	12.3	-102.15	-440.1	91.7	209.7	185.4	24.29	8.634		
5,500.0	5,480.0	5,496.2	5,474.9	12.5	12.6	-102.06	-449.3	93.5	213.9	189.2	24.76	8.642		
5,600.0	5,579.6	5,596.2	5,574.4	12.7	12.8	-101.98	-458.5	95.3	218.2	192.9	25.22	8.650		
5,700.0	5,679.2	5,696.1	5,673.9	12.9	13.0	-101.90	-467.6	97.2	222.4	196.7	25.69	8.658		
5,800.0	5,778.8	5,796.0	5,773.4	13.2	13.3	-101.83	-476.8	99.0	226.6	200.5	26.16	8.665		
5,900.0	5,878.4	5,895.9	5,872.8	13.4	13.5	-101.75	-486.0	100.9	230.9	204.3	26.62	8.672		
6,000.0	5,978.0	5,995.8	5,972.3	13.6	13.8	-101.68	-495.2	102.7	235.1	208.0	27.09	8.679		
6,100.0	6,077.5	6,095.7	6,071.8	13.9	14.0	-101.62	-504.4	104.5	239.4	211.8	27.56	8.686		
6,200.0	6,177.1	6,195.6	6,171.2	14.1	14.2	-101.55	-513.6	106.4	243.6	215.6	28.02	8.693		
6,300.0	6,276.7	6,295.5	6,270.7	14.4	14.5	-101.49	-522.7	108.2	247.8	219.3	28.49	8.699		
6,400.0	6,376.3	6,395.4	6,370.2	14.6	14.7	-101.43	-531.9	110.0	252.1	223.1	28.96	8.705		
6,500.0	6,475.9	6,495.3	6,469.6	14.8	15.0	-101.37	-541.1	111.9	256.3	226.9	29.42	8.711		
6,600.0	6,575.5	6,595.3	6,569.1	15.1	15.2	-101.31	-550.3	113.7	260.5	230.7	29.89	8.717		
6,700.0	6,675.1	6,695.2	6,668.6	15.3	15.4	-101.25	-559.5	115.6	264.8	234.4	30.36	8.723		
6,800.0	6,774.7	6,795.6	6,768.6	15.5	15.7	-101.25	-568.5	117.4	269.0	238.2	30.82	8.729		
6,900.0	6,874.3	6,897.3	6,870.1	15.8	15.7	-103.68	-566.0	119.3	272.7	241.6	31.12	8.763		
7,000.0	6,973.9	6,992.2	6,963.1	16.0	15.6	-109.19	-547.4	121.0	277.6	246.4	31.16	8.907		
7,100.0	7,073.8	7,079.4	7,044.7	16.1	15.4	101.79	-517.1	122.5	287.0	256.2	30.81	9.315		
7,200.0	7,172.4	7,162.5	7,117.4	16.0	15.1	80.77	-477.0	123.9	300.4	270.3	30.10	9.979		
7,300.0	7,266.7	7,242.6	7,181.3	15.8	14.7	72.57	-428.9	125.0	316.2	287.0	29.16	10.843		
7,400.0	7,354.0	7,320.2	7,236.2	15.5	14.4	66.84	-374.1	126.1	332.7	304.7	28.07	11.855		
7,500.0	7,431.5	7,400.0	7,284.4	15.1	14.1	62.41	-310.6	126.9	348.8	321.9	26.89	12.972		
7,600.0	7,496.9	7,470.2	7,319.2	14.7	13.8	59.29	-249.6	127.6	363.4	337.6	25.83	14.071		
7,700.0	7,548.3	7,550.0	7,349.3	14.4	13.6	56.90	-175.8	128.1	375.8	350.9	24.89	15.096		
7,800.0	7,584.0	7,616.0	7,366.3	14.2	13.6	55.48	-112.0	128.5	385.3	360.9	24.33	15.834		
7,900.0	7,602.9	7,688.2	7,376.3	14.2	13.6	54.73	-40.6	128.6	391.6	367.5	24.19	16.193		
8,000.0	7,606.0	7,771.1	7,378.0	14.4	13.8	54.73	42.2	128.7	395.0	370.4	24.58	16.071		
8,100.0	7,606.0	7,871.0	7,378.0	14.8	14.2	55.02	142.2	128.7	397.9	372.5	25.39	15.668		
8,200.0	7,606.0	7,971.0	7,378.0	15.4	14.8	55.31	242.1	128.7	400.7	374.2	26.50	15.124		
8,300.0	7,606.0	8,070.9	7,378.0	16.2	15.6	55.59	342.0	128.7	403.6	375.7	27.87	14.484		
8,400.0	7,606.0	8,170.9	7,378.0	17.1	16.5	55.87	442.0	128.7	406.5	377.0	29.47	13.792		
8,500.0	7,606.0	8,270.8	7,378.0	18.2	17.6	56.14	541.9	128.7	409.4	378.1	31.28	13.087		
8,600.0	7,606.0	8,370.7	7,378.0	19.3	18.7	56.41	641.9	128.7	412.3	379.0	33.27	12.393		
8,700.0	7,606.0	8,470.7	7,378.0	20.6	20.0	56.68	741.8	128.7	415.2	379.8	35.40	11.727		
8,800.0	7,606.0	8,570.6	7,378.0	21.9	21.3	56.94	841.7	128.7	418.1	380.5	37.67	11.100		
8,900.0	7,606.0	8,670.6	7,378.0	23.2	22.7	57.20	941.7	128.7	421.1	381.0	40.04	10.515		
9,000.0	7,606.0	8,770.5	7,378.0	24.7	24.1	57.45	1,041.6	128.7	424.0	381.5	42.51	9.974		
9,100.0	7,606.0	8,870.4	7,378.0	26.1	25.6	57.71	1,141.6	128.7	426.9	381.9	45.06	9.475		
9,200.0	7,606.0	8,970.4	7,378.0	27.6	27.1	57.95	1,241.5	128.7	429.9	382.2	47.68	9.017		
9,300.0	7,606.0	9,070.3	7,378.0	29.1	28.6	58.20	1,341.4	128.7	432.9	382.5	50.36	8.595		
9,400.0	7,606.0	9,170.2	7,378.0	30.7	30.2	58.44	1,441.4	128.7	435.8	382.7	53.10	8.208		
9,500.0	7,606.0	9,270.2	7,378.0	32.2	31.7	58.68	1,541.3	128.7	438.8	382.9	55.88	7.852		
9,600.0	7,606.0	9,370.1	7,378.0	33.8	33.3	58.91	1,641.3	128.7	441.8	383.1	58.71	7.525		
9,700.0	7,606.0	9,470.1	7,378.0	35.4	34.9	59.15	1,741.2	128.7	444.8	383.2	61.58	7.223		
9,800.0	7,606.0	9,570.0	7,378.0	37.0	36.6	59.38	1,841.1	128.7	447.8	383.3	64.48	6.945		
9,900.0	7,606.0	9,669.9	7,378.0	38.7	38.2	59.60	1,941.1	128.7	450.8	383.4	67.41	6.687		
10,000.0	7,606.0	9,769.9	7,378.0	40.3	39.8	59.82	2,041.0	128.7	453.8	383.4	70.38	6.448		
10,100.0	7,606.0	9,869.8	7,378.0	41.9	41.5	60.04	2,140.9	128.7	456.8	383.5	73.37	6.226		
10,200.0	7,606.0	9,969.8	7,378.0	43.6	43.1	60.26	2,240.9	128.7	459.8	383.5	76.38	6.020		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3N-32H-K268 - Hz - Plan #1															
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,300.0	7,606.0	10,069.7	7,378.0	45.3	44.8	60.48	2,340.8	128.7	462.9	383.5	79.42	5.828			
10,400.0	7,606.0	10,169.6	7,378.0	46.9	46.5	60.69	2,440.8	128.7	465.9	383.4	82.48	5.649			
10,500.0	7,606.0	10,269.6	7,378.0	48.6	48.2	60.89	2,540.7	128.7	468.8	383.2	85.54	5.480			
10,600.0	7,606.0	10,369.6	7,378.0	50.3	49.9	60.88	2,640.7	128.7	468.6	380.3	88.34	5.305			
10,700.0	7,606.0	10,469.5	7,378.0	52.0	51.5	60.56	2,740.6	128.7	464.6	373.9	90.75	5.120			
10,800.0	7,606.0	10,569.1	7,378.0	53.6	53.2	59.90	2,840.2	128.7	456.8	364.1	92.71	4.927			
10,900.0	7,606.0	10,668.1	7,378.0	55.3	54.9	58.89	2,939.3	128.7	445.3	351.2	94.15	4.730			
11,000.0	7,606.0	10,766.6	7,378.0	56.9	56.6	57.47	3,037.7	128.7	430.2	335.2	94.94	4.531			
11,071.9	7,606.0	10,836.8	7,378.0	58.1	57.8	56.25	3,107.9	128.7	417.3	321.9	95.40	4.375 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3O-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	8.4	8.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	8.4	8.4	8.1	0.30	27.638	CC	
158.4	158.4	158.4	158.4	0.3	0.3	-105.73	0.0	8.4	8.4	7.9	0.51	16.567		
200.0	200.0	200.0	200.0	0.3	0.3	-105.57	0.0	8.4	8.4	7.7	0.65	12.872	ES	
300.0	300.0	300.0	299.9	0.5	0.5	-112.04	-0.2	8.5	8.9	7.9	1.00	8.896		
400.0	399.9	399.8	399.8	0.7	0.7	-118.63	-1.5	9.6	11.0	9.7	1.36	8.123	SF	
500.0	499.8	499.7	499.6	0.9	0.9	-122.42	-4.2	11.8	14.8	13.1	1.72	8.595		
600.0	599.6	599.4	599.2	1.1	1.1	-124.04	-8.3	15.1	20.2	18.1	2.11	9.596		
700.0	699.3	699.0	698.6	1.3	1.3	-124.50	-13.7	19.4	27.2	24.7	2.51	10.829		
800.0	798.9	798.5	797.7	1.5	1.5	-123.17	-20.5	24.8	35.2	32.2	2.93	11.989		
900.0	898.5	897.9	896.5	1.7	1.7	-120.23	-28.5	31.3	43.8	40.5	3.38	12.980		
1,000.0	998.1	997.4	995.4	2.0	2.0	-117.35	-37.4	38.4	53.0	49.2	3.83	13.845		
1,100.0	1,097.7	1,097.0	1,094.3	2.2	2.2	-115.32	-46.2	45.4	62.2	58.0	4.28	14.541		
1,200.0	1,197.3	1,196.5	1,193.2	2.4	2.5	-113.81	-55.0	52.5	71.5	66.8	4.73	15.111		
1,300.0	1,296.9	1,296.1	1,292.1	2.7	2.7	-112.65	-63.8	59.6	80.9	75.7	5.19	15.585		
1,400.0	1,396.5	1,395.6	1,391.0	2.9	3.0	-111.74	-72.6	66.6	90.3	84.6	5.65	15.985		
1,500.0	1,496.1	1,495.2	1,489.9	3.1	3.2	-110.99	-81.5	73.7	99.6	93.5	6.10	16.325		
1,600.0	1,595.7	1,594.7	1,588.8	3.4	3.5	-110.37	-90.3	80.8	109.1	102.5	6.56	16.619		
1,700.0	1,695.3	1,694.3	1,687.7	3.6	3.7	-109.85	-99.1	87.8	118.5	111.4	7.02	16.875		
1,800.0	1,794.9	1,793.8	1,786.6	3.8	4.0	-109.41	-107.9	94.9	127.9	120.4	7.48	17.100		
1,900.0	1,894.5	1,893.4	1,885.6	4.1	4.3	-109.03	-116.7	102.0	137.3	129.4	7.94	17.299		
2,000.0	1,994.1	1,992.9	1,984.5	4.3	4.5	-108.70	-125.5	109.1	146.7	138.4	8.40	17.477		
2,100.0	2,093.7	2,092.5	2,083.4	4.5	4.8	-108.40	-134.4	116.1	156.2	147.3	8.86	17.636		
2,200.0	2,193.2	2,192.0	2,182.3	4.8	5.0	-108.14	-143.2	123.2	165.6	156.3	9.32	17.779		
2,300.0	2,292.8	2,291.6	2,281.2	5.0	5.3	-107.91	-152.0	130.3	175.1	165.3	9.78	17.909		
2,400.0	2,392.4	2,391.1	2,380.1	5.2	5.6	-107.71	-160.8	137.3	184.5	174.3	10.24	18.028		
2,500.0	2,492.0	2,490.7	2,479.0	5.5	5.8	-107.52	-169.6	144.4	194.0	183.3	10.70	18.136		
2,600.0	2,591.6	2,590.2	2,577.9	5.7	6.1	-107.35	-178.5	151.5	203.4	192.3	11.16	18.235		
2,700.0	2,691.2	2,689.8	2,676.8	5.9	6.3	-107.19	-187.3	158.5	212.9	201.3	11.62	18.326		
2,800.0	2,790.8	2,789.3	2,775.7	6.2	6.6	-107.05	-196.1	165.6	222.3	210.2	12.08	18.411		
2,900.0	2,890.4	2,888.9	2,874.6	6.4	6.9	-106.92	-204.9	172.7	231.8	219.2	12.54	18.489		
3,000.0	2,990.0	2,988.4	2,973.5	6.6	7.1	-106.80	-213.7	179.8	241.2	228.2	13.00	18.562		
3,100.0	3,089.6	3,088.0	3,072.4	6.9	7.4	-106.69	-222.5	186.8	250.7	237.2	13.46	18.629		
3,200.0	3,189.2	3,187.5	3,171.3	7.1	7.7	-106.59	-231.4	193.9	260.1	246.2	13.92	18.692		
3,300.0	3,288.8	3,287.1	3,270.3	7.3	7.9	-106.49	-240.2	201.0	269.6	255.2	14.38	18.752		
3,400.0	3,388.4	3,386.6	3,369.2	7.6	8.2	-106.40	-249.0	208.0	279.1	264.2	14.84	18.807		
3,500.0	3,488.0	3,486.2	3,468.1	7.8	8.4	-106.32	-257.8	215.1	288.5	273.2	15.30	18.859		
3,600.0	3,587.6	3,585.7	3,567.0	8.0	8.7	-106.24	-266.6	222.2	298.0	282.2	15.76	18.908		
3,700.0	3,687.2	3,685.3	3,665.9	8.3	9.0	-106.17	-275.5	229.3	307.4	291.2	16.22	18.954		
3,800.0	3,786.8	3,784.8	3,764.8	8.5	9.2	-106.10	-284.3	236.3	316.9	300.2	16.68	18.998		
3,900.0	3,886.4	3,884.4	3,863.7	8.7	9.5	-106.04	-293.1	243.4	326.4	309.2	17.14	19.039		
4,000.0	3,986.0	3,983.9	3,962.6	9.0	9.8	-105.97	-301.9	250.5	335.8	318.2	17.60	19.078		
4,100.0	4,085.6	4,083.5	4,061.5	9.2	10.0	-105.92	-310.7	257.5	345.3	327.2	18.06	19.116		
4,200.0	4,185.2	4,183.0	4,160.4	9.4	10.3	-105.86	-319.6	264.6	354.8	336.2	18.52	19.151		
4,300.0	4,284.8	4,282.6	4,259.3	9.7	10.5	-105.81	-328.4	271.7	364.2	345.2	18.98	19.185		
4,400.0	4,384.4	4,382.1	4,358.2	9.9	10.8	-105.76	-337.2	278.7	373.7	354.2	19.45	19.217		
4,500.0	4,484.0	4,481.7	4,457.1	10.1	11.1	-105.71	-346.0	285.8	383.1	363.2	19.91	19.247		
4,600.0	4,583.6	4,581.2	4,556.0	10.4	11.3	-105.67	-354.8	292.9	392.6	372.2	20.37	19.276		
4,700.0	4,683.2	4,680.8	4,654.9	10.6	11.6	-105.63	-363.6	300.0	402.1	381.2	20.83	19.304		
4,800.0	4,782.8	4,780.3	4,753.9	10.8	11.9	-105.59	-372.5	307.0	411.5	390.2	21.29	19.331		
4,900.0	4,882.4	4,879.9	4,852.8	11.1	12.1	-105.55	-381.3	314.1	421.0	399.2	21.75	19.356		
5,000.0	4,982.0	4,979.4	4,951.7	11.3	12.4	-105.51	-390.1	321.2	430.5	408.3	22.21	19.381		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,081.6	5,079.0	5,050.6	11.5	12.6	-105.48	-398.9	328.2	439.9	417.3	22.67	19.404		
5,200.0	5,181.2	5,178.5	5,149.5	11.8	12.9	-105.44	-407.7	335.3	449.4	426.3	23.13	19.426		
5,300.0	5,280.8	5,278.1	5,248.4	12.0	13.2	-105.41	-416.6	342.4	458.9	435.3	23.59	19.448		
5,400.0	5,380.4	5,377.6	5,347.3	12.2	13.4	-105.38	-425.4	349.4	468.3	444.3	24.05	19.469		
5,500.0	5,480.0	5,477.2	5,446.2	12.5	13.7	-105.35	-434.2	356.5	477.8	453.3	24.52	19.489		
5,600.0	5,579.6	5,576.7	5,545.1	12.7	14.0	-105.32	-443.0	363.6	487.3	462.3	24.98	19.508		
5,700.0	5,679.2	5,676.3	5,644.0	12.9	14.2	-105.29	-451.8	370.7	496.7	471.3	25.44	19.527		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - File 3P-32H-K268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	75.40	3.6	14.0	14.5					
100.0	100.0	100.0	100.0	0.2	0.2	75.40	3.6	14.0	14.5	14.2	0.30	47.599	CC	
158.4	158.4	158.4	158.4	0.3	0.3	-120.14	3.6	14.0	14.5	14.0	0.51	28.549		
200.0	200.0	200.0	200.0	0.3	0.3	-120.06	3.6	14.0	14.5	13.8	0.65	22.172	ES	
300.0	300.0	299.8	299.8	0.5	0.5	-121.39	3.1	14.7	15.6	14.6	1.00	15.571		
400.0	399.9	399.6	399.6	0.7	0.7	-122.67	1.5	16.7	18.7	17.4	1.36	13.762		
500.0	499.8	499.3	499.1	0.9	0.9	-123.58	-1.1	20.2	23.8	22.0	1.73	13.747	SF	
600.0	599.6	598.8	598.4	1.1	1.1	-124.14	-4.8	25.0	30.7	28.6	2.11	14.549		
700.0	699.3	698.0	697.4	1.3	1.3	-124.44	-9.6	31.1	39.6	37.1	2.52	15.749		
800.0	798.9	797.1	796.0	1.5	1.5	-123.74	-15.4	38.6	49.9	47.0	2.94	16.993		
900.0	898.5	895.9	894.2	1.7	1.8	-121.94	-22.2	47.4	61.2	57.8	3.37	18.136		
1,000.0	998.1	994.4	991.9	2.0	2.0	-119.64	-30.0	57.5	73.5	69.7	3.82	19.235		
1,100.0	1,097.7	1,092.8	1,089.2	2.2	2.3	-117.16	-38.8	68.9	87.0	82.7	4.28	20.334		
1,200.0	1,197.3	1,191.8	1,187.0	2.4	2.6	-115.15	-47.9	80.7	100.9	96.2	4.74	21.303		
1,300.0	1,296.9	1,290.7	1,284.9	2.7	2.9	-113.62	-57.0	92.5	114.9	109.7	5.20	22.119		
1,400.0	1,396.5	1,389.7	1,382.7	2.9	3.2	-112.42	-66.1	104.3	129.0	123.3	5.65	22.812		
1,500.0	1,496.1	1,488.7	1,480.6	3.1	3.5	-111.46	-75.2	116.1	143.1	137.0	6.11	23.409		
1,600.0	1,595.7	1,587.7	1,578.4	3.4	3.8	-110.67	-84.4	127.9	157.2	150.7	6.57	23.926		
1,700.0	1,695.3	1,686.6	1,676.3	3.6	4.1	-110.01	-93.5	139.7	171.4	164.4	7.03	24.379		
1,800.0	1,794.9	1,785.6	1,774.1	3.8	4.4	-109.45	-102.6	151.5	185.6	178.1	7.49	24.778		
1,900.0	1,894.5	1,884.6	1,871.9	4.1	4.7	-108.98	-111.7	163.3	199.8	191.9	7.95	25.133		
2,000.0	1,994.1	1,983.6	1,969.8	4.3	5.1	-108.56	-120.8	175.1	214.0	205.6	8.41	25.450		
2,100.0	2,093.7	2,082.5	2,067.6	4.5	5.4	-108.20	-130.0	186.9	228.2	219.4	8.87	25.735		
2,200.0	2,193.2	2,181.5	2,165.5	4.8	5.7	-107.88	-139.1	198.7	242.5	233.1	9.33	25.992		
2,300.0	2,292.8	2,280.5	2,263.3	5.0	6.0	-107.59	-148.2	210.5	256.7	246.9	9.79	26.226		
2,400.0	2,392.4	2,379.5	2,361.2	5.2	6.3	-107.34	-157.3	222.3	270.9	260.7	10.25	26.440		
2,500.0	2,492.0	2,478.4	2,459.0	5.5	6.6	-107.11	-166.4	234.1	285.2	274.5	10.71	26.635		
2,600.0	2,591.6	2,577.4	2,556.9	5.7	6.9	-106.90	-175.6	245.9	299.4	288.3	11.17	26.815		
2,700.0	2,691.2	2,676.4	2,654.7	5.9	7.2	-106.71	-184.7	257.7	313.7	302.1	11.63	26.980		
2,800.0	2,790.8	2,775.4	2,752.5	6.2	7.5	-106.54	-193.8	269.5	328.0	315.9	12.09	27.133		
2,900.0	2,890.4	2,874.3	2,850.4	6.4	7.9	-106.38	-202.9	281.3	342.2	329.7	12.55	27.275		
3,000.0	2,990.0	2,973.3	2,948.2	6.6	8.2	-106.23	-212.0	293.1	356.5	343.5	13.01	27.407		
3,100.0	3,089.6	3,072.3	3,046.1	6.9	8.5	-106.10	-221.2	304.9	370.7	357.3	13.47	27.531		
3,200.0	3,189.2	3,171.3	3,143.9	7.1	8.8	-105.98	-230.3	316.7	385.0	371.1	13.93	27.646		
3,300.0	3,288.8	3,270.2	3,241.8	7.3	9.1	-105.86	-239.4	328.5	399.3	384.9	14.39	27.754		
3,400.0	3,388.4	3,369.2	3,339.6	7.6	9.4	-105.75	-248.5	340.3	413.5	398.7	14.85	27.855		
3,500.0	3,488.0	3,468.2	3,437.4	7.8	9.7	-105.65	-257.6	352.1	427.8	412.5	15.31	27.950		
3,600.0	3,587.6	3,567.1	3,535.3	8.0	10.0	-105.56	-266.8	363.9	442.1	426.3	15.77	28.040		
3,700.0	3,687.2	3,666.1	3,633.1	8.3	10.4	-105.47	-275.9	375.7	456.4	440.1	16.23	28.124		
3,800.0	3,786.8	3,765.1	3,731.0	8.5	10.7	-105.39	-285.0	387.5	470.6	453.9	16.69	28.204		
3,900.0	3,886.4	3,864.1	3,828.8	8.7	11.0	-105.31	-294.1	399.3	484.9	467.8	17.15	28.280		
4,000.0	3,986.0	3,963.0	3,926.7	9.0	11.3	-105.24	-303.2	411.1	499.2	481.6	17.61	28.352		

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 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft	
Survey Program: 4996-MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	57.44	185.8	291.0	345.2						
100.0	100.0	99.0	99.0	0.2	0.2	57.44	185.8	291.0	345.2	344.9	0.32	1,064.774	CC		
158.3	158.3	157.3	157.3	0.3	0.3	-137.91	185.8	291.0	345.3	344.7	0.53	654.406			
200.0	200.0	199.0	199.0	0.3	0.3	-137.90	185.8	291.0	345.2	344.6	0.67	513.096	ES		
300.0	300.0	299.0	299.0	0.5	0.5	-138.03	185.8	291.0	346.2	345.1	1.02	338.679			
400.0	399.9	398.9	398.9	0.7	0.7	-138.34	185.8	291.0	348.4	347.0	1.37	253.658			
500.0	499.8	498.8	498.8	0.9	0.9	-138.83	185.8	291.0	351.9	350.2	1.73	203.628			
600.0	599.6	598.6	598.6	1.1	1.0	-139.48	185.8	291.0	356.8	354.7	2.09	170.914			
700.0	699.3	698.3	698.3	1.3	1.2	-140.28	185.8	291.0	363.1	360.6	2.45	148.069			
800.0	798.9	797.9	797.9	1.5	1.4	-141.17	185.8	291.0	370.0	367.2	2.82	131.300			
900.0	898.5	897.5	897.5	1.7	1.6	-142.02	185.8	291.0	377.0	373.9	3.18	118.413			
1,000.0	998.1	997.1	997.1	2.0	1.7	-142.84	185.8	291.0	384.2	380.6	3.55	108.221			
1,100.0	1,097.7	1,096.7	1,096.7	2.2	1.9	-143.63	185.8	291.0	391.3	387.4	3.91	99.969			
1,200.0	1,197.3	1,196.3	1,196.3	2.4	2.1	-144.40	185.8	291.0	398.6	394.3	4.28	93.160			
1,300.0	1,296.9	1,295.9	1,295.9	2.7	2.3	-145.13	185.8	291.0	405.9	401.3	4.64	87.451			
1,400.0	1,396.5	1,395.5	1,395.5	2.9	2.4	-145.84	185.8	291.0	413.3	408.3	5.00	82.598			
1,500.0	1,496.1	1,495.1	1,495.1	3.1	2.6	-146.53	185.8	291.0	420.8	415.4	5.37	78.426			
1,600.0	1,595.7	1,594.7	1,594.7	3.4	2.8	-147.19	185.8	291.0	428.3	422.6	5.73	74.801			
1,700.0	1,695.3	1,694.3	1,694.3	3.6	2.9	-147.82	185.8	291.0	435.9	429.8	6.09	71.625			
1,800.0	1,794.9	1,793.9	1,793.9	3.8	3.1	-148.44	185.8	291.0	443.5	437.1	6.44	68.820			
1,900.0	1,894.5	1,893.5	1,893.5	4.1	3.3	-149.03	185.8	291.0	451.2	444.4	6.80	66.326			
2,000.0	1,994.1	1,993.1	1,993.1	4.3	3.5	-149.61	185.8	291.0	458.9	451.7	7.16	64.095			
2,100.0	2,093.7	2,092.7	2,092.7	4.5	3.6	-150.17	185.8	291.0	466.7	459.1	7.52	62.088			
2,200.0	2,193.2	2,192.2	2,192.2	4.8	3.8	-150.70	185.8	291.0	474.5	466.6	7.87	60.272			
2,300.0	2,292.8	2,291.8	2,291.8	5.0	4.0	-151.22	185.8	291.0	482.3	474.1	8.23	58.624			
2,400.0	2,392.4	2,391.4	2,391.4	5.2	4.2	-151.73	185.8	291.0	490.2	481.6	8.58	57.120			
2,500.0	2,492.0	2,491.0	2,491.0	5.5	4.3	-152.22	185.8	291.0	498.1	489.2	8.94	55.743	SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 8140-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,100.0	4,085.6	4,074.6	4,074.6	9.2	7.1	48.21	-539.9	-533.3	499.1	483.6	15.45	32.304		
4,200.0	4,185.2	4,174.2	4,174.2	9.4	7.3	48.98	-539.9	-533.3	493.1	477.3	15.86	31.092		
4,300.0	4,284.8	4,273.8	4,273.8	9.7	7.5	49.78	-539.9	-533.3	487.3	471.0	16.27	29.942		
4,400.0	4,384.4	4,373.4	4,373.4	9.9	7.6	50.59	-539.9	-533.3	481.5	464.9	16.69	28.852		
4,500.0	4,484.0	4,473.0	4,473.0	10.1	7.8	51.42	-539.9	-533.3	475.9	458.8	17.11	27.817		
4,600.0	4,583.6	4,572.6	4,572.6	10.4	8.0	52.27	-539.9	-533.3	470.3	452.8	17.53	26.834		
4,700.0	4,683.2	4,672.2	4,672.2	10.6	8.2	53.14	-539.9	-533.3	464.9	446.9	17.95	25.900		
4,800.0	4,782.8	4,771.8	4,771.8	10.8	8.3	54.04	-539.9	-533.3	459.6	441.2	18.37	25.012		
4,900.0	4,882.4	4,871.4	4,871.4	11.1	8.5	54.95	-539.9	-533.3	454.3	435.5	18.80	24.168		
5,000.0	4,982.0	4,971.0	4,971.0	11.3	8.7	55.88	-539.9	-533.3	449.2	430.0	19.23	23.364		
5,100.0	5,081.6	5,070.6	5,070.6	11.5	8.8	56.84	-539.9	-533.3	444.3	424.6	19.66	22.600		
5,200.0	5,181.2	5,170.2	5,170.2	11.8	9.0	57.81	-539.9	-533.3	439.4	419.3	20.09	21.873		
5,300.0	5,280.8	5,269.8	5,269.8	12.0	9.2	58.81	-539.9	-533.3	434.7	414.2	20.52	21.181		
5,400.0	5,380.4	5,369.4	5,369.4	12.2	9.4	59.83	-539.9	-533.3	430.1	409.1	20.96	20.522		
5,500.0	5,480.0	5,469.0	5,469.0	12.5	9.5	60.87	-539.9	-533.3	425.6	404.2	21.39	19.895		
5,600.0	5,579.6	5,568.6	5,568.6	12.7	9.7	61.93	-539.9	-533.3	421.3	399.5	21.83	19.298		
5,700.0	5,679.2	5,668.2	5,668.2	12.9	9.9	63.01	-539.9	-533.3	417.2	394.9	22.27	18.730		
5,800.0	5,778.8	5,767.8	5,767.8	13.2	10.1	64.12	-539.9	-533.3	413.2	390.5	22.71	18.191		
5,900.0	5,878.4	5,867.4	5,867.4	13.4	10.2	65.24	-539.9	-533.3	409.3	386.2	23.16	17.677		
6,000.0	5,978.0	5,967.0	5,967.0	13.6	10.4	66.39	-539.9	-533.3	405.6	382.0	23.60	17.189		
6,100.0	6,077.5	6,066.5	6,066.5	13.9	10.6	67.55	-539.9	-533.3	402.1	378.1	24.04	16.726		
6,200.0	6,177.1	6,166.1	6,166.1	14.1	10.8	68.74	-539.9	-533.3	398.8	374.3	24.49	16.286		
6,300.0	6,276.7	6,265.7	6,265.7	14.4	10.9	69.94	-539.9	-533.3	395.6	370.7	24.93	15.869		
6,400.0	6,376.3	6,365.3	6,365.3	14.6	11.1	71.17	-539.9	-533.3	392.6	367.2	25.37	15.473		
6,500.0	6,475.9	6,464.9	6,464.9	14.8	11.3	72.41	-539.9	-533.3	389.8	364.0	25.82	15.098		
6,600.0	6,575.5	6,564.5	6,564.5	15.1	11.5	73.67	-539.9	-533.3	387.2	360.9	26.26	14.744		
6,700.0	6,675.1	6,664.1	6,664.1	15.3	11.6	74.95	-539.9	-533.3	384.7	358.0	26.70	14.409		
6,800.0	6,774.7	6,763.7	6,763.7	15.5	11.8	76.24	-539.9	-533.3	382.5	355.4	27.14	14.093		
6,900.0	6,874.3	6,863.3	6,863.3	15.8	12.0	77.55	-539.9	-533.3	380.5	352.9	27.58	13.794		
7,000.0	6,973.9	6,962.9	6,962.9	16.0	12.2	78.87	-539.9	-533.3	378.6	350.6	28.02	13.513		
7,100.0	7,073.8	7,062.8	7,062.8	16.1	12.3	-62.91	-539.9	-533.3	376.1	347.8	28.30	13.290		
7,200.0	7,172.4	7,161.4	7,161.4	16.0	12.5	-80.11	-539.9	-533.3	372.1	343.7	28.32	13.137		
7,300.0	7,266.7	7,255.7	7,255.7	15.8	12.7	-87.73	-539.9	-533.3	368.6	340.5	28.11	13.113 SF		
7,330.4	7,294.1	7,283.1	7,283.1	15.7	12.7	-90.00	-539.9	-533.3	368.4	340.4	28.00	13.157 CC, ES		
7,400.0	7,354.0	7,343.0	7,343.0	15.5	12.8	-95.15	-539.9	-533.3	370.3	342.6	27.70	13.369		
7,500.0	7,431.5	7,420.5	7,420.5	15.1	13.0	-101.87	-539.9	-533.3	382.7	355.5	27.13	14.105		
7,600.0	7,496.9	7,485.9	7,485.9	14.7	13.1	-106.59	-539.9	-533.3	410.6	384.1	26.54	15.469		
7,700.0	7,548.3	7,537.3	7,537.3	14.4	13.2	-108.19	-539.9	-533.3	456.1	429.9	26.18	17.420		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft	
Survey Program: 8140-MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	70.26	157.7	439.5	476.9						
100.0	100.0	3.0	3.0	0.2	0.0	70.26	157.7	439.5	467.0	466.8	0.16	2,969.010 CC			
158.3	158.3	61.3	61.3	0.3	0.1	-125.09	157.7	439.5	467.0	466.6	0.36	1,293.977			
200.0	200.0	103.0	103.0	0.3	0.2	-125.08	157.7	439.5	467.0	466.5	0.51	922.269 ES			
300.0	300.0	203.0	203.0	0.5	0.4	-125.20	157.7	439.5	467.7	466.8	0.86	546.169			
400.0	399.9	302.9	302.9	0.7	0.5	-125.48	157.7	439.5	469.4	468.2	1.21	388.068			
500.0	499.8	402.8	402.8	0.9	0.7	-125.93	157.7	439.5	472.2	470.6	1.57	301.027			
600.0	599.6	502.6	502.6	1.1	0.9	-126.52	157.7	439.5	476.0	474.0	1.93	245.993			
700.0	699.3	602.3	602.3	1.3	1.1	-127.27	157.7	439.5	480.9	478.6	2.31	208.188			
800.0	798.9	701.9	701.9	1.5	1.2	-128.11	157.7	439.5	486.4	483.7	2.69	180.988			
900.0	898.5	801.5	801.5	1.7	1.4	-128.93	157.7	439.5	492.0	488.9	3.07	160.482			
1,000.0	998.1	901.1	901.1	2.0	1.6	-129.73	157.7	439.5	497.7	494.2	3.44	144.508 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft	
Survey Program: 750-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)					
8,500.0	7,606.0	7,660.0	7,583.0	18.2	21.6	-90.00	1,013.9	-290.4	478.6	442.7	35.87	13.341			
8,600.0	7,606.0	7,660.0	7,583.0	19.3	21.6	-90.00	1,013.9	-290.4	379.7	342.6	37.04	10.249			
8,700.0	7,606.0	7,660.0	7,583.0	20.6	21.6	-90.00	1,013.9	-290.4	281.5	243.2	38.30	7.351			
8,800.0	7,606.0	7,660.0	7,583.0	21.9	21.6	-90.00	1,013.9	-290.4	185.3	145.7	39.62	4.678			
8,900.0	7,606.0	7,660.0	7,583.0	23.2	21.6	-90.00	1,013.9	-290.4	97.3	56.3	41.00	2.372			
8,974.5	7,606.0	7,660.0	7,583.0	24.3	21.6	-90.00	1,013.9	-290.4	62.6	20.5	42.07	1.487	Level 3, CC, ES, SF		
9,000.0	7,606.0	7,660.0	7,583.0	24.7	21.6	-90.00	1,013.9	-290.4	67.6	25.1	42.43	1.592			
9,100.0	7,606.0	7,660.0	7,583.0	26.1	21.6	-90.00	1,013.9	-290.4	140.3	96.4	43.90	3.195			
9,200.0	7,606.0	7,660.0	7,583.0	27.6	21.6	-90.00	1,013.9	-290.4	234.0	188.6	45.40	5.155			
9,300.0	7,606.0	7,660.0	7,583.0	29.1	21.6	-90.00	1,013.9	-290.4	331.5	284.6	46.93	7.063			
9,400.0	7,606.0	7,660.0	7,583.0	30.7	21.6	-90.00	1,013.9	-290.4	430.1	381.6	48.49	8.870			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft	
Survey Program: 60-MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SURVEYS															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	3.2	3.2	0.0	0.0	66.36	189.1	432.0	471.5						
100.0	100.0	105.0	105.0	0.2	0.2	66.20	190.0	431.0	471.0	470.7	0.31	1,520.123			
121.2	121.2	124.4	124.4	0.2	0.2	-129.18	190.4	430.8	471.0	470.6	0.38	1,235.705	CC, ES		
200.0	200.0	195.9	195.9	0.3	0.3	-129.40	192.2	430.5	471.6	470.9	0.65	728.232			
300.0	300.0	283.3	283.1	0.5	0.5	-129.83	195.9	431.6	475.2	474.2	0.98	483.127			
400.0	399.9	366.5	366.1	0.7	0.7	-130.43	201.2	434.4	482.9	481.6	1.32	366.055			
500.0	499.8	455.5	454.7	0.9	0.9	-131.21	208.4	439.7	494.7	493.1	1.67	296.078	SF		

Anticollision Report

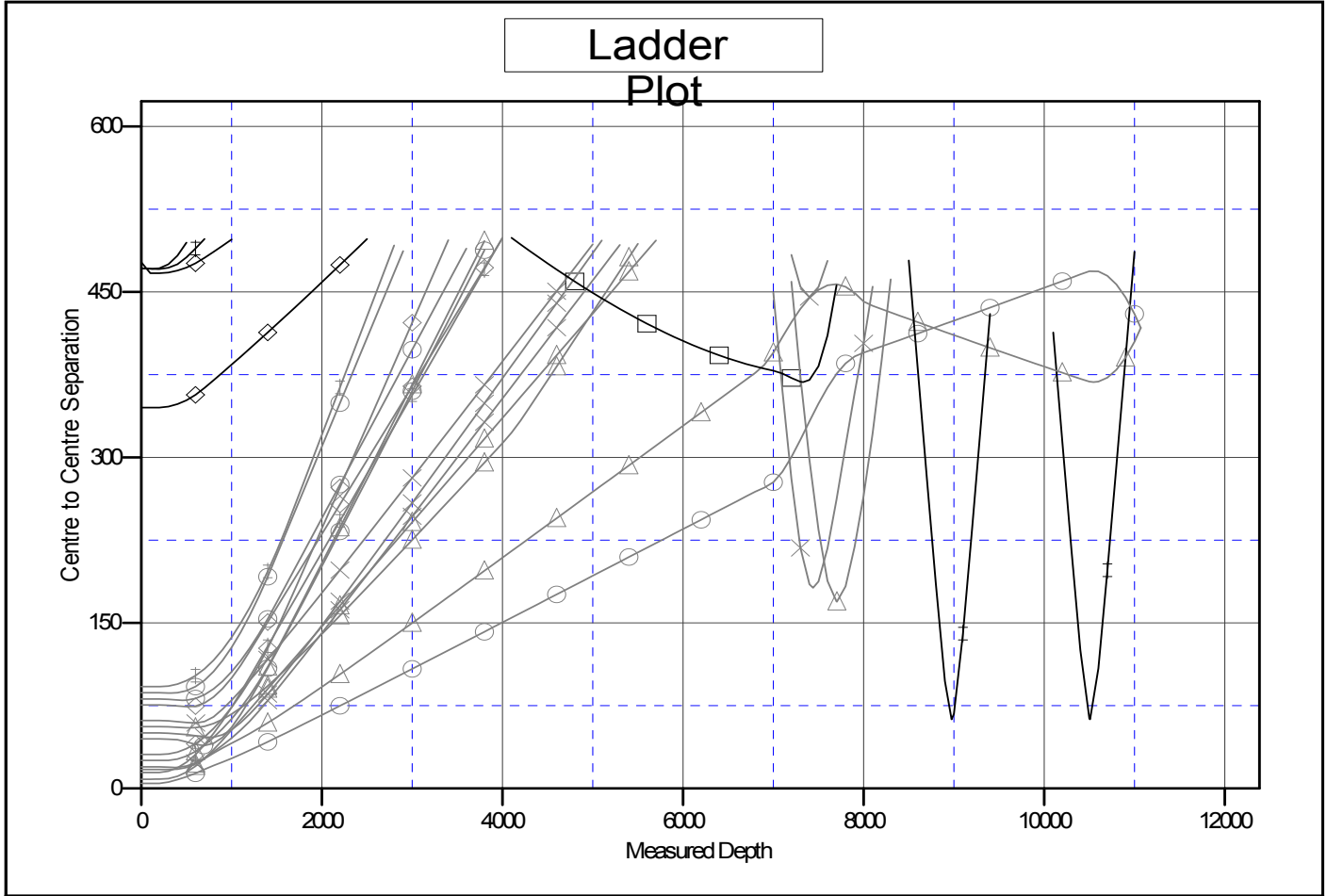
Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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													Offset Site Error:	0.0 ft	
Survey Program: 60-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	3.1	3.1	0.0	0.0	68.71	171.2	439.2	471.4						
100.0	100.0	105.0	105.0	0.2	0.2	68.76	170.6	439.1	471.1	470.8	0.31	1,532.544			
183.4	183.4	187.2	187.2	0.3	0.3	-126.40	169.1	439.4	470.8	470.2	0.60	785.651			
200.0	200.0	202.3	202.3	0.3	0.3	-126.33	168.6	439.5	470.8	470.1	0.66	717.941	CC, ES		
300.0	300.0	298.9	298.7	0.5	0.5	-125.85	164.3	441.7	472.0	471.0	1.02	464.208			
400.0	399.9	391.9	391.4	0.7	0.7	-125.15	157.4	445.6	475.1	473.7	1.40	339.881			
500.0	499.8	484.0	483.0	0.9	0.9	-124.34	149.2	452.0	481.4	479.6	1.81	266.448			
600.0	599.6	582.0	580.1	1.1	1.2	-123.47	139.1	459.9	489.4	487.1	2.26	216.704			
700.0	699.3	686.6	683.7	1.3	1.5	-122.62	127.4	468.4	498.1	495.4	2.75	181.099	SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3M-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3M-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 @ 4971.0ft (Original Well Elev) Coordinates are relative to: File 3M-32H-K268
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.30°



LEGEND

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> 3), ENCANAWELL, NOSURVEYS V0 | <ul style="list-style-type: none"> ○ File 3H-32H-K268, Hz, Plan #1 V0 ◇ File 3I-32H-K268, Hz, Plan #2 V0 ▲ File 3J-32H-K268, Hz, Plan #1 V0 ✕ File 3K-32H-K268, Hz, Plan #1 V0 △ File 3L-32H-K268, Hz, Plan #1 V0 ⊖ File 3N-32H-K268, Hz, Plan #1 V0 ⊕ File 3O-32H-K268, Hz, Plan #1 V0 ⊖ File 3P-32H-K268, Hz, Plan #1 V0 | <ul style="list-style-type: none"> ◆ NELSON4 (EXISTING), TEXAS ⊖ NELSON E UNIT 1 (EXISTING), I ◆ RAY NELSON 23-32 (EXISTING) ⊖ RAY NELSON 2-4-32 (EXISTING) ⊖ RAY NELSON 4-4-32 (EXISTING) ⊖ RAY NELSON 4-6-32 (EXISTING) |
|--|--|---|

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