

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3F-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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

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

Well	File 3F-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,920.87 ft	Latitude:	40.092580
	+E/-W	0.0 ft	Easting:	3,131,194.14 ft	Longitude:	-105.031090
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,958.0 ft

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

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,202.6	2.03	18.88	4,202.6	3.4	1.2	1.00	1.00	0.00	18.88	
7,015.8	2.03	18.88	7,014.0	97.5	33.3	0.00	0.00	0.00	0.00	
7,934.9	90.00	179.50	7,606.0	-475.1	45.3	10.00	9.57	17.48	160.61	
13,584.9	90.00	179.50	7,606.0	-6,124.8	94.6	0.00	0.00	0.00	0.00	File 3F-32H-K268 NE

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Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
271.0	0.00	0.00	271.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
4,100.0	1.00	18.88	4,100.0	0.8	0.3	-0.8	1.00	1.00	
4,200.0	2.00	18.88	4,200.0	3.3	1.1	-3.3	1.00	1.00	
4,202.6	2.03	18.88	4,202.6	3.4	1.2	-3.4	1.00	1.00	EOB; Inc=2°
4,300.0	2.03	18.88	4,299.9	6.6	2.3	-6.6	0.00	0.00	
4,327.1	2.03	18.88	4,327.0	7.6	2.6	-7.6	0.00	0.00	Sussex
4,400.0	2.03	18.88	4,399.8	10.0	3.4	-10.0	0.00	0.00	
4,500.0	2.03	18.88	4,499.8	13.3	4.6	-13.3	0.00	0.00	
4,600.0	2.03	18.88	4,599.7	16.7	5.7	-16.7	0.00	0.00	
4,608.3	2.03	18.88	4,608.0	17.0	5.8	-17.0	0.00	0.00	Sussex Marker
4,700.0	2.03	18.88	4,699.6	20.0	6.9	-20.0	0.00	0.00	

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Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	2.03	18.88	4,799.6	23.4	8.0	-23.4	0.00	0.00	
4,900.0	2.03	18.88	4,899.5	26.7	9.1	-26.7	0.00	0.00	
4,900.5	2.03	18.88	4,900.0	26.7	9.1	-26.7	0.00	0.00	Shannon
5,000.0	2.03	18.88	4,999.5	30.1	10.3	-30.1	0.00	0.00	
5,100.0	2.03	18.88	5,099.4	33.4	11.4	-33.4	0.00	0.00	
5,200.0	2.03	18.88	5,199.3	36.8	12.6	-36.8	0.00	0.00	
5,300.0	2.03	18.88	5,299.3	40.1	13.7	-40.1	0.00	0.00	
5,400.0	2.03	18.88	5,399.2	43.4	14.9	-43.4	0.00	0.00	
5,500.0	2.03	18.88	5,499.1	46.8	16.0	-46.8	0.00	0.00	
5,600.0	2.03	18.88	5,599.1	50.1	17.1	-50.1	0.00	0.00	
5,700.0	2.03	18.88	5,699.0	53.5	18.3	-53.5	0.00	0.00	
5,800.0	2.03	18.88	5,799.0	56.8	19.4	-56.8	0.00	0.00	
5,900.0	2.03	18.88	5,898.9	60.2	20.6	-60.2	0.00	0.00	
6,000.0	2.03	18.88	5,998.8	63.5	21.7	-63.5	0.00	0.00	
6,100.0	2.03	18.88	6,098.8	66.9	22.9	-66.9	0.00	0.00	
6,200.0	2.03	18.88	6,198.7	70.2	24.0	-70.2	0.00	0.00	
6,300.0	2.03	18.88	6,298.6	73.6	25.2	-73.6	0.00	0.00	
6,400.0	2.03	18.88	6,398.6	76.9	26.3	-76.9	0.00	0.00	
6,500.0	2.03	18.88	6,498.5	80.2	27.4	-80.2	0.00	0.00	
6,600.0	2.03	18.88	6,598.5	83.6	28.6	-83.6	0.00	0.00	
6,700.0	2.03	18.88	6,698.4	86.9	29.7	-86.9	0.00	0.00	
6,800.0	2.03	18.88	6,798.3	90.3	30.9	-90.3	0.00	0.00	
6,801.7	2.03	18.88	6,800.0	90.3	30.9	-90.3	0.00	0.00	Teepee Buttes (*if present)
6,900.0	2.03	18.88	6,898.3	93.6	32.0	-93.6	0.00	0.00	
7,000.0	2.03	18.88	6,998.2	97.0	33.2	-97.0	0.00	0.00	
7,015.8	2.03	18.88	7,014.0	97.5	33.3	-97.5	0.00	0.00	Start build/turn @ 7015' MD
7,100.0	6.55	173.63	7,098.0	94.1	34.4	-94.1	10.00	5.37	
7,200.0	16.52	177.23	7,195.9	74.2	35.7	-74.2	10.00	9.98	
7,211.6	17.68	177.39	7,207.0	70.8	35.8	-70.8	10.00	9.99	Sharon Springs
7,300.0	26.52	178.15	7,288.8	37.6	37.1	-37.6	10.00	9.99	
7,322.8	28.80	178.28	7,309.0	27.0	37.4	-27.0	10.00	10.00	Niobrara
7,392.6	35.78	178.57	7,368.0	-10.2	38.4	10.2	10.00	10.00	B Chalk
7,400.0	36.52	178.59	7,374.0	-14.6	38.6	14.6	10.00	10.00	
7,435.7	40.09	178.70	7,402.0	-36.7	39.1	36.7	10.00	10.00	B Marl
7,500.0	46.51	178.86	7,448.7	-80.8	40.0	80.8	10.00	10.00	
7,525.7	49.08	178.92	7,466.0	-99.8	40.4	99.8	10.00	10.00	C Chalk
7,579.0	54.42	179.02	7,499.0	-141.7	41.1	141.7	10.00	10.00	C Marl
7,600.0	56.51	179.05	7,510.9	-158.9	41.4	158.9	10.00	10.00	
7,700.0	66.51	179.21	7,558.5	-246.7	42.7	246.7	10.00	10.00	
7,751.8	71.69	179.28	7,577.0	-295.1	43.4	295.1	10.00	10.00	Ft. Hayes
7,800.0	76.51	179.34	7,590.2	-341.4	43.9	341.4	10.00	10.00	
7,827.7	79.28	179.37	7,596.0	-368.5	44.2	368.5	10.00	10.00	Codell
7,900.0	86.51	179.46	7,604.9	-440.2	45.0	440.2	10.00	10.00	
7,934.9	90.00	179.50	7,606.0	-475.1	45.3	475.1	10.00	10.00	LP @ 7606' TVD; 90°
8,000.0	90.00	179.50	7,606.0	-540.2	45.9	540.2	0.00	0.00	
8,100.0	90.00	179.50	7,606.0	-640.2	46.7	640.2	0.00	0.00	
8,200.0	90.00	179.50	7,606.0	-740.2	47.6	740.2	0.00	0.00	
8,300.0	90.00	179.50	7,606.0	-840.2	48.5	840.2	0.00	0.00	
8,400.0	90.00	179.50	7,606.0	-940.2	49.4	940.2	0.00	0.00	
8,500.0	90.00	179.50	7,606.0	-1,040.2	50.2	1,040.2	0.00	0.00	
8,600.0	90.00	179.50	7,606.0	-1,140.1	51.1	1,140.1	0.00	0.00	
8,700.0	90.00	179.50	7,606.0	-1,240.1	52.0	1,240.1	0.00	0.00	

Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	179.50	7,606.0	-1,340.1	52.8	1,340.1	0.00	0.00	
8,900.0	90.00	179.50	7,606.0	-1,440.1	53.7	1,440.1	0.00	0.00	
9,000.0	90.00	179.50	7,606.0	-1,540.1	54.6	1,540.1	0.00	0.00	
9,100.0	90.00	179.50	7,606.0	-1,640.1	55.5	1,640.1	0.00	0.00	
9,200.0	90.00	179.50	7,606.0	-1,740.1	56.3	1,740.1	0.00	0.00	
9,300.0	90.00	179.50	7,606.0	-1,840.1	57.2	1,840.1	0.00	0.00	
9,400.0	90.00	179.50	7,606.0	-1,940.1	58.1	1,940.1	0.00	0.00	
9,500.0	90.00	179.50	7,606.0	-2,040.1	59.0	2,040.1	0.00	0.00	
9,600.0	90.00	179.50	7,606.0	-2,140.1	59.8	2,140.1	0.00	0.00	
9,700.0	90.00	179.50	7,606.0	-2,240.1	60.7	2,240.1	0.00	0.00	
9,800.0	90.00	179.50	7,606.0	-2,340.1	61.6	2,340.1	0.00	0.00	
9,900.0	90.00	179.50	7,606.0	-2,440.1	62.4	2,440.1	0.00	0.00	
10,000.0	90.00	179.50	7,606.0	-2,540.1	63.3	2,540.1	0.00	0.00	
10,100.0	90.00	179.50	7,606.0	-2,640.1	64.2	2,640.1	0.00	0.00	
10,200.0	90.00	179.50	7,606.0	-2,740.1	65.1	2,740.1	0.00	0.00	
10,300.0	90.00	179.50	7,606.0	-2,840.1	65.9	2,840.1	0.00	0.00	
10,400.0	90.00	179.50	7,606.0	-2,940.1	66.8	2,940.1	0.00	0.00	
10,500.0	90.00	179.50	7,606.0	-3,040.1	67.7	3,040.1	0.00	0.00	
10,600.0	90.00	179.50	7,606.0	-3,140.1	68.6	3,140.1	0.00	0.00	
10,700.0	90.00	179.50	7,606.0	-3,240.1	69.4	3,240.1	0.00	0.00	
10,800.0	90.00	179.50	7,606.0	-3,340.1	70.3	3,340.1	0.00	0.00	
10,900.0	90.00	179.50	7,606.0	-3,440.1	71.2	3,440.1	0.00	0.00	
11,000.0	90.00	179.50	7,606.0	-3,540.1	72.0	3,540.1	0.00	0.00	
11,100.0	90.00	179.50	7,606.0	-3,640.1	72.9	3,640.1	0.00	0.00	
11,200.0	90.00	179.50	7,606.0	-3,740.0	73.8	3,740.0	0.00	0.00	
11,300.0	90.00	179.50	7,606.0	-3,840.0	74.7	3,840.0	0.00	0.00	
11,400.0	90.00	179.50	7,606.0	-3,940.0	75.5	3,940.0	0.00	0.00	
11,500.0	90.00	179.50	7,606.0	-4,040.0	76.4	4,040.0	0.00	0.00	
11,600.0	90.00	179.50	7,606.0	-4,140.0	77.3	4,140.0	0.00	0.00	
11,700.0	90.00	179.50	7,606.0	-4,240.0	78.2	4,240.0	0.00	0.00	
11,800.0	90.00	179.50	7,606.0	-4,340.0	79.0	4,340.0	0.00	0.00	
11,900.0	90.00	179.50	7,606.0	-4,440.0	79.9	4,440.0	0.00	0.00	
12,000.0	90.00	179.50	7,606.0	-4,540.0	80.8	4,540.0	0.00	0.00	
12,100.0	90.00	179.50	7,606.0	-4,640.0	81.6	4,640.0	0.00	0.00	
12,200.0	90.00	179.50	7,606.0	-4,740.0	82.5	4,740.0	0.00	0.00	
12,300.0	90.00	179.50	7,606.0	-4,840.0	83.4	4,840.0	0.00	0.00	
12,400.0	90.00	179.50	7,606.0	-4,940.0	84.3	4,940.0	0.00	0.00	
12,500.0	90.00	179.50	7,606.0	-5,040.0	85.1	5,040.0	0.00	0.00	
12,600.0	90.00	179.50	7,606.0	-5,140.0	86.0	5,140.0	0.00	0.00	
12,700.0	90.00	179.50	7,606.0	-5,240.0	86.9	5,240.0	0.00	0.00	
12,800.0	90.00	179.50	7,606.0	-5,340.0	87.8	5,340.0	0.00	0.00	
12,900.0	90.00	179.50	7,606.0	-5,440.0	88.6	5,440.0	0.00	0.00	
13,000.0	90.00	179.50	7,606.0	-5,540.0	89.5	5,540.0	0.00	0.00	
13,100.0	90.00	179.50	7,606.0	-5,640.0	90.4	5,640.0	0.00	0.00	
13,200.0	90.00	179.50	7,606.0	-5,740.0	91.2	5,740.0	0.00	0.00	
13,300.0	90.00	179.50	7,606.0	-5,840.0	92.1	5,840.0	0.00	0.00	
13,400.0	90.00	179.50	7,606.0	-5,940.0	93.0	5,940.0	0.00	0.00	
13,500.0	90.00	179.50	7,606.0	-6,040.0	93.9	6,040.0	0.00	0.00	
13,584.9	90.00	179.50	7,606.0	-6,124.8	94.6	6,124.8	0.00	0.00	TD at 13584.9

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3F-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
File 3F-32H-K268 NEW	0.00	0.00	7,606.0	-6,124.8	94.6	1,270,796.61	3,131,321.12	40.075766	-105.030752
- plan hits target center									
- Point									
File 3F-32H-K268 PBHL	0.00	0.00	7,606.0	-6,669.9	53.2	1,270,251.33	3,131,282.58	40.074270	-105.030900
- plan misses target center by 546.6ft at 13584.9ft MD (7606.0 TVD, -6124.8 N, 94.6 E)									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
271.0	271.0	Fox Hills - BASE				
4,327.1	4,327.0	Sussex				
4,608.3	4,608.0	Sussex Marker				
4,900.5	4,900.0	Shannon				
6,801.7	6,800.0	Teepee Buttes (*if present)				
7,211.6	7,207.0	Sharon Springs				
7,322.8	7,309.0	Niobrara				
7,392.6	7,368.0	B Chalk				
7,435.7	7,402.0	B Marl				
7,525.7	7,466.0	C Chalk				
7,579.0	7,499.0	C Marl				
7,751.8	7,577.0	Ft. Hayes				
7,827.7	7,596.0	Codell				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment
4,000.0	4,000.0	0.0	0.0	KOP @ 400'
4,202.6	4,202.6	3.4	1.2	EOB; Inc=2°
7,015.8	7,014.0	97.5	33.3	Start build/turn @ 7015' MD
7,934.9	7,606.0	-475.1	45.3	LP @ 7606' TVD; 90°
13,584.9	7,606.0	-6,124.8	94.6	TD at 13584.9

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3F-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	6/28/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	13,584.7	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV	11,309.2	7,666.0	327.4	243.6	3.907	CC, ES, SF
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - Plan #2						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE	9,721.4	7,663.0	466.0	409.3	8.217	CC, ES
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE	9,800.0	7,663.0	472.6	414.6	8.144	SF
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3A-32H-K268 - Hz - Plan #1	200.0	199.0	36.6	35.9	56.146	CC, ES
File 3A-32H-K268 - Hz - Plan #1	700.0	694.6	58.1	55.7	24.242	SF
File 3B-32H-K268 - Hz - Plan #1	300.0	299.0	30.8	29.8	30.773	CC, ES
File 3B-32H-K268 - Hz - Plan #1	700.0	696.2	44.5	42.1	18.580	SF
File 3C-32H-K268 - Hz - Plan #1	400.0	399.0	25.4	24.1	18.857	CC, ES
File 3C-32H-K268 - Hz - Plan #1	700.0	697.4	33.2	30.8	13.852	SF
File 3D-32H-K268 - Hz - Plan #1	500.0	499.0	19.6	17.9	11.532	CC, ES
File 3D-32H-K268 - Hz - Plan #1	700.0	698.3	23.0	20.6	9.596	SF
File 3E-32H-K268 - Hz - Plan #1	600.0	600.0	6.7	4.6	3.259	CC, ES
File 3E-32H-K268 - Hz - Plan #1	13,585.5	13,373.9	452.8	261.8	2.370	SF
File 3G-32H-K268 - Hz - Plan #1	400.0	400.0	6.7	5.3	4.941	CC, ES
File 3G-32H-K268 - Hz - Plan #1	13,585.5	13,379.2	385.8	206.6	2.154	SF
File 3H-32H-K268 - Hz - Plan #1	333.3	333.3	11.2	10.1	10.008	CC
File 3H-32H-K268 - Hz - Plan #1	400.0	399.9	11.4	10.1	8.444	ES
File 3H-32H-K268 - Hz - Plan #1	500.0	499.7	13.1	11.4	7.725	SF
File 3I-32H-K268 - Hz - Plan #1	702.7	703.3	12.6	10.1	5.076	CC, ES, SF
File 3J-32H-K268 - Hz - Plan #1	810.3	811.2	13.9	11.0	4.816	CC, ES, SF
File 3K-32H-K268 - Hz - Plan #1	913.3	914.2	23.8	20.5	7.353	CC, ES
File 3K-32H-K268 - Hz - Plan #1	1,000.0	1,000.4	25.5	21.9	7.084	SF
File 3L-32H-K268 - Hz - Plan #1	943.7	944.5	29.4	26.1	8.840	CC, ES
File 3L-32H-K268 - Hz - Plan #1	1,000.0	1,000.5	30.0	26.4	8.416	SF
File 3M-32H-K268 - Hz - Plan #1	617.0	617.4	54.0	51.8	25.047	CC, ES
File 3M-32H-K268 - Hz - Plan #1	7,700.0	7,710.8	206.2	178.0	7.318	SF
File 3N-32H-K268 - Hz - Plan #1	300.0	300.0	58.8	57.8	58.646	CC
File 3N-32H-K268 - Hz - Plan #1	400.0	399.8	58.9	57.6	43.613	ES
File 3N-32H-K268 - Hz - Plan #1	7,408.0	7,713.1	146.0	119.6	5.537	SF
File 3O-32H-K268 - Hz - Plan #1	233.4	233.4	64.5	63.7	83.761	CC
File 3O-32H-K268 - Hz - Plan #1	300.0	299.6	64.6	63.6	64.510	ES
File 3O-32H-K268 - Hz - Plan #1	7,800.0	7,645.9	490.9	461.8	16.877	SF
File 3P-32H-K268 - Hz - Plan #1	200.0	200.0	69.9	69.3	107.151	CC, ES
File 3P-32H-K268 - Hz - Plan #1	1,000.0	987.4	118.4	114.8	33.280	SF
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU	12,847.9	7,680.0	440.7	330.3	3.989	CC, ES
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU	12,900.0	7,680.0	443.8	332.4	3.984	SF
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range

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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File)						
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	5,006.5	4,996.0	369.3	351.9	21.200	CC, ES, SF
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						Out of range
NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N	13,585.5	7,650.0	170.5	47.2	1.383	Level 3, CC, ES, SF
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	7,100.0	7,001.0	465.0	440.3	18.840	CC, ES
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	7,200.0	7,098.9	466.7	441.7	18.691	SF
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU	8,707.6	7,714.2	177.2	134.7	4.169	CC, ES, SF
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
Ray Nelson 33-32 - DD - Plan #1						Out of range
Ray Nelson 34-32 - DD - Plan #2						Out of range
Ray Nelson 44-32 - DD - Plan #2						Out of range
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU						Out of range
Ray Nelson 7-8-32 - DD - Plan #1						Out of range
Ray Nelson 8-8-32 - DD - Plan #2						Out of range
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N	13,170.5	7,665.0	155.4	39.3	1.338	Level 3, CC, ES, SF
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File) - BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:													8427-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		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
							+N/-S (ft)	+E/-W (ft)										
11,000.0	7,606.0	7,666.0	7,666.0	65.1	13.4	-90.00	-3,846.4	402.1	450.3	371.8	78.47	5.739						
11,100.0	7,606.0	7,666.0	7,666.0	66.8	13.4	-90.00	-3,846.4	402.1	388.5	308.3	80.19	4.845						
11,200.0	7,606.0	7,666.0	7,666.0	68.5	13.4	-90.00	-3,846.4	402.1	345.1	263.2	81.91	4.213						
11,300.0	7,606.0	7,666.0	7,666.0	70.3	13.4	-90.00	-3,846.4	402.1	327.5	243.9	83.64	3.916						
11,309.2	7,606.0	7,666.0	7,666.0	70.4	13.4	-90.00	-3,846.4	402.1	327.4	243.6	83.80	3.907	CC, ES, SF					
11,400.0	7,606.0	7,666.0	7,666.0	72.0	13.4	-90.00	-3,846.4	402.1	339.7	254.4	85.36	3.980						
11,500.0	7,606.0	7,666.0	7,666.0	73.7	13.4	-90.00	-3,846.4	402.1	378.9	291.8	87.09	4.351						
11,600.0	7,606.0	7,666.0	7,666.0	75.4	13.4	-90.00	-3,846.4	402.1	437.9	349.1	88.82	4.930						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design										S32-T2N-R68W (File) - BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVEYS				Offset Site Error:		0.0 ft
Survey Program: 7864-Geolink MWD												Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
9,600.0	7,606.0	7,663.0	7,663.0	41.3	13.4	-90.00	-2,257.4	526.9	481.5	426.9	54.68	8.806				
9,700.0	7,606.0	7,663.0	7,663.0	43.0	13.4	-90.00	-2,257.4	526.9	466.5	410.1	56.35	8.278				
9,721.4	7,606.0	7,663.0	7,663.0	43.3	13.4	-90.00	-2,257.4	526.9	466.0	409.3	56.71	8.217 CC, ES				
9,800.0	7,606.0	7,663.0	7,663.0	44.7	13.4	-90.00	-2,257.4	526.9	472.6	414.6	58.03	8.144 SF				
9,900.0	7,606.0	7,663.0	7,663.0	46.3	13.4	-90.00	-2,257.4	526.9	499.1	439.3	59.71	8.358				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3A-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-95.71	-3.6	-36.4	36.6					
100.0	100.0	99.0	99.0	0.2	0.2	-95.71	-3.6	-36.4	36.6	36.2	0.30	120.964		
200.0	200.0	199.0	199.0	0.3	0.3	-95.71	-3.6	-36.4	36.6	35.9	0.65	56.146	CC, ES	
300.0	300.0	298.4	298.4	0.5	0.5	-95.74	-3.7	-37.2	37.4	36.4	1.00	37.437		
400.0	400.0	397.7	397.6	0.7	0.7	-95.85	-4.1	-39.8	40.0	38.6	1.35	29.675		
500.0	500.0	496.8	496.7	0.8	0.9	-96.00	-4.6	-44.0	44.3	42.6	1.70	26.115		
600.0	600.0	595.8	595.5	1.0	1.1	-96.16	-5.4	-49.9	50.3	48.3	2.05	24.604		
700.0	700.0	694.6	694.0	1.2	1.3	-96.33	-6.4	-57.5	58.1	55.7	2.40	24.242	SF	
800.0	800.0	793.1	792.0	1.4	1.5	-96.47	-7.6	-66.8	67.6	64.8	2.75	24.585		
900.0	900.0	891.2	889.5	1.5	1.7	-96.60	-9.0	-77.7	78.8	75.7	3.10	25.386		
1,000.0	1,000.0	988.9	986.4	1.7	2.0	-96.71	-10.6	-90.1	91.6	88.2	3.46	26.500		
1,100.0	1,100.0	1,086.2	1,082.6	1.9	2.3	-96.80	-12.4	-104.2	106.2	102.4	3.82	27.832		
1,200.0	1,200.0	1,182.9	1,178.1	2.1	2.6	-96.88	-14.4	-119.8	122.4	118.3	4.18	29.320		
1,300.0	1,300.0	1,279.1	1,272.7	2.2	2.9	-96.94	-16.7	-136.8	140.3	135.8	4.54	30.921		
1,400.0	1,400.0	1,374.7	1,366.5	2.4	3.3	-96.99	-19.1	-155.4	159.9	155.0	4.90	32.602		
1,500.0	1,500.0	1,469.6	1,459.2	2.6	3.7	-97.04	-21.6	-175.3	181.0	175.8	5.27	34.340		
1,600.0	1,600.0	1,563.8	1,550.9	2.8	4.1	-97.08	-24.4	-196.6	203.8	198.2	5.64	36.118		
1,700.0	1,700.0	1,657.3	1,641.7	2.9	4.5	-97.11	-27.3	-219.2	228.2	222.2	6.02	37.928		
1,800.0	1,800.0	1,754.1	1,735.4	3.1	5.0	-97.14	-30.5	-243.3	253.3	246.9	6.40	39.586		
1,900.0	1,900.0	1,850.9	1,829.0	3.3	5.4	-97.16	-33.6	-267.4	278.4	271.7	6.78	41.051		
2,000.0	2,000.0	1,947.7	1,922.7	3.5	5.9	-97.18	-36.7	-291.5	303.6	296.4	7.17	42.352		
2,100.0	2,100.0	2,044.5	2,016.4	3.6	6.3	-97.19	-39.8	-315.7	328.7	321.1	7.55	43.515		
2,200.0	2,200.0	2,141.3	2,110.1	3.8	6.8	-97.21	-43.0	-339.8	353.8	345.9	7.94	44.560		
2,300.0	2,300.0	2,238.1	2,203.8	4.0	7.2	-97.22	-46.1	-363.9	379.0	370.6	8.33	45.505		
2,400.0	2,400.0	2,334.9	2,297.5	4.2	7.7	-97.23	-49.2	-388.0	404.1	395.4	8.72	46.363		
2,500.0	2,500.0	2,431.7	2,391.2	4.3	8.2	-97.24	-52.3	-412.1	429.2	420.1	9.10	47.145		
2,600.0	2,600.0	2,528.5	2,484.8	4.5	8.6	-97.25	-55.5	-436.2	454.3	444.8	9.49	47.861		
2,700.0	2,700.0	2,625.2	2,578.5	4.7	9.1	-97.25	-58.6	-460.4	479.5	469.6	9.88	48.519		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-30.8	30.8					
100.0	100.0	99.0	99.0	0.2	0.2	-89.98	0.0	-30.8	30.8	0.30	101.847			
200.0	200.0	199.0	199.0	0.3	0.3	-89.98	0.0	-30.8	30.8	0.65	47.273			
300.0	300.0	299.0	299.0	0.5	0.5	-89.98	0.0	-30.8	30.8	1.00	30.773 CC, ES			
400.0	400.0	398.5	398.5	0.7	0.7	-89.84	0.1	-31.6	31.6	1.35	23.453			
500.0	500.0	497.9	497.8	0.8	0.9	-89.45	0.3	-34.2	34.2	1.70	20.152			
600.0	600.0	597.1	597.0	1.0	1.0	-88.92	0.7	-38.4	38.5	2.05	18.814			
700.0	700.0	696.2	695.9	1.2	1.2	-88.35	1.3	-44.4	44.5	2.40	18.580 SF			
800.0	800.0	795.1	794.5	1.4	1.4	-87.81	2.0	-52.1	52.3	2.75	19.023			
900.0	900.0	893.7	892.6	1.5	1.7	-87.33	2.9	-61.4	61.8	3.10	19.911			
1,000.0	1,000.0	991.9	990.2	1.7	1.9	-86.92	3.9	-72.3	73.0	3.46	21.102			
1,100.0	1,100.0	1,089.7	1,087.2	1.9	2.2	-86.59	5.1	-84.9	85.8	3.81	22.505			
1,200.0	1,200.0	1,187.1	1,183.5	2.1	2.4	-86.32	6.4	-99.0	100.4	4.17	24.062			
1,300.0	1,300.0	1,283.9	1,279.1	2.2	2.8	-86.09	7.8	-114.7	116.7	4.53	25.729			
1,400.0	1,400.0	1,380.2	1,373.8	2.4	3.1	-85.90	9.4	-131.9	134.6	4.90	27.474			
1,500.0	1,500.0	1,477.7	1,469.5	2.6	3.4	-85.75	11.2	-150.4	153.7	5.27	29.189			
1,600.0	1,600.0	1,575.8	1,565.8	2.8	3.8	-85.63	12.9	-169.2	172.9	5.64	30.680			
1,700.0	1,700.0	1,674.0	1,662.1	2.9	4.1	-85.53	14.7	-188.0	192.1	6.01	31.983			
1,800.0	1,800.0	1,772.1	1,758.4	3.1	4.5	-85.46	16.4	-206.7	211.3	6.38	33.131			
1,900.0	1,900.0	1,870.2	1,854.7	3.3	4.9	-85.39	18.2	-225.5	230.5	6.75	34.150			
2,000.0	2,000.0	1,968.4	1,951.0	3.5	5.2	-85.33	19.9	-244.3	249.7	7.12	35.060			
2,100.0	2,100.0	2,066.5	2,047.4	3.6	5.6	-85.29	21.7	-263.0	268.9	7.50	35.878			
2,200.0	2,200.0	2,164.6	2,143.7	3.8	6.0	-85.25	23.4	-281.8	288.1	7.87	36.617			
2,300.0	2,300.0	2,262.8	2,240.0	4.0	6.3	-85.21	25.2	-300.6	307.3	8.24	37.287			
2,400.0	2,400.0	2,360.9	2,336.3	4.2	6.7	-85.18	26.9	-319.3	326.5	8.62	37.899			
2,500.0	2,500.0	2,459.1	2,432.6	4.3	7.1	-85.15	28.7	-338.1	345.7	8.99	38.458			
2,600.0	2,600.0	2,557.2	2,528.9	4.5	7.4	-85.12	30.4	-356.9	364.9	9.36	38.973			
2,700.0	2,700.0	2,655.3	2,625.2	4.7	7.8	-85.10	32.2	-375.6	384.1	9.74	39.447			
2,800.0	2,800.0	2,753.5	2,721.5	4.9	8.2	-85.08	33.9	-394.4	403.4	10.11	39.885			
2,900.0	2,900.0	2,851.6	2,817.9	5.0	8.6	-85.06	35.7	-413.2	422.6	10.49	40.292			
3,000.0	3,000.0	2,949.8	2,914.2	5.2	8.9	-85.05	37.4	-431.9	441.8	10.86	40.670			
3,100.0	3,100.0	3,047.9	3,010.5	5.4	9.3	-85.03	39.2	-450.7	461.0	11.24	41.022			
3,200.0	3,200.0	3,146.0	3,106.8	5.6	9.7	-85.02	40.9	-469.4	480.2	11.61	41.352			
3,300.0	3,300.0	3,244.2	3,203.1	5.7	10.0	-85.00	42.7	-488.2	499.4	11.99	41.660			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-98.22	-3.6	-25.2	25.5					
100.0	100.0	99.0	99.0	0.2	0.2	-98.22	-3.6	-25.2	25.4	25.1	0.30	84.195		
200.0	200.0	199.0	199.0	0.3	0.3	-98.22	-3.6	-25.2	25.4	24.8	0.65	39.080		
300.0	300.0	299.0	299.0	0.5	0.5	-98.22	-3.6	-25.2	25.4	24.4	1.00	25.439		
400.0	400.0	399.0	399.0	0.7	0.7	-98.22	-3.6	-25.2	25.4	24.1	1.35	18.857 CC, ES		
500.0	500.0	498.6	498.6	0.8	0.8	-98.43	-3.9	-26.0	26.3	24.6	1.70	15.486		
600.0	600.0	598.0	598.0	1.0	1.0	-98.98	-4.5	-28.5	28.9	26.8	2.05	14.108		
700.0	700.0	697.4	697.3	1.2	1.2	-99.72	-5.6	-32.6	33.2	30.8	2.39	13.852 SF		
800.0	800.0	796.6	796.3	1.4	1.4	-100.47	-7.1	-38.5	39.2	36.5	2.74	14.289		
900.0	900.0	895.6	895.0	1.5	1.6	-101.16	-9.1	-45.9	47.0	43.9	3.09	15.183		
1,000.0	1,000.0	994.2	993.2	1.7	1.8	-101.74	-11.4	-55.0	56.4	53.0	3.44	16.389		
1,100.0	1,100.0	1,092.5	1,090.9	1.9	2.1	-102.22	-14.2	-65.6	67.6	63.8	3.80	17.818		
1,200.0	1,200.0	1,190.4	1,187.9	2.1	2.3	-102.60	-17.4	-77.8	80.5	76.4	4.15	19.406		
1,300.0	1,300.0	1,287.9	1,284.3	2.2	2.6	-102.91	-21.0	-91.6	95.1	90.6	4.51	21.112		
1,400.0	1,400.0	1,384.8	1,380.0	2.4	2.9	-103.16	-25.0	-106.9	111.4	106.5	4.86	22.902		
1,500.0	1,500.0	1,482.6	1,476.2	2.6	3.2	-103.36	-29.3	-123.5	129.0	123.7	5.22	24.681		
1,600.0	1,600.0	1,581.0	1,573.1	2.8	3.5	-103.52	-33.7	-140.3	146.6	141.0	5.59	26.235		
1,700.0	1,700.0	1,679.4	1,670.0	2.9	3.9	-103.64	-38.1	-157.1	164.3	158.3	5.95	27.595		
1,800.0	1,800.0	1,777.9	1,766.8	3.1	4.2	-103.74	-42.5	-174.0	182.0	175.6	6.32	28.793		
1,900.0	1,900.0	1,876.3	1,863.7	3.3	4.5	-103.82	-46.9	-190.8	199.6	193.0	6.69	29.857		
2,000.0	2,000.0	1,974.7	1,960.6	3.5	4.9	-103.89	-51.3	-207.6	217.3	210.3	7.05	30.808		
2,100.0	2,100.0	2,073.1	2,057.5	3.6	5.2	-103.94	-55.7	-224.5	235.0	227.6	7.42	31.663		
2,200.0	2,200.0	2,171.6	2,154.3	3.8	5.6	-103.99	-60.1	-241.3	252.7	244.9	7.79	32.435		
2,300.0	2,300.0	2,270.0	2,251.2	4.0	5.9	-104.04	-64.5	-258.1	270.3	262.2	8.16	33.136		
2,400.0	2,400.0	2,368.4	2,348.1	4.2	6.3	-104.07	-68.9	-275.0	288.0	279.5	8.53	33.775		
2,500.0	2,500.0	2,466.8	2,445.0	4.3	6.6	-104.11	-73.3	-291.8	305.7	296.8	8.90	34.360		
2,600.0	2,600.0	2,565.3	2,541.9	4.5	6.9	-104.14	-77.7	-308.6	323.4	314.1	9.27	34.897		
2,700.0	2,700.0	2,663.7	2,638.7	4.7	7.3	-104.16	-82.1	-325.5	341.0	331.4	9.64	35.392		
2,800.0	2,800.0	2,762.1	2,735.6	4.9	7.6	-104.19	-86.5	-342.3	358.7	348.7	10.01	35.850		
2,900.0	2,900.0	2,860.5	2,832.5	5.0	8.0	-104.21	-90.9	-359.1	376.4	366.0	10.38	36.275		
3,000.0	3,000.0	2,959.0	2,929.4	5.2	8.3	-104.23	-95.3	-375.9	394.0	383.3	10.75	36.670		
3,100.0	3,100.0	3,057.4	3,026.2	5.4	8.7	-104.25	-99.7	-392.8	411.7	400.6	11.12	37.038		
3,200.0	3,200.0	3,155.8	3,123.1	5.6	9.0	-104.26	-104.1	-409.6	429.4	417.9	11.49	37.382		
3,300.0	3,300.0	3,254.2	3,220.0	5.7	9.4	-104.28	-108.5	-426.4	447.1	435.2	11.86	37.705		
3,400.0	3,400.0	3,352.7	3,316.9	5.9	9.7	-104.29	-112.9	-443.3	464.7	452.5	12.23	38.007		
3,500.0	3,500.0	3,451.1	3,413.7	6.1	10.1	-104.31	-117.3	-460.1	482.4	469.8	12.60	38.291		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3D-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-19.6	19.6					
100.0	100.0	99.0	99.0	0.2	0.2	-89.99	0.0	-19.6	19.6	19.3	0.30	64.812		
200.0	200.0	199.0	199.0	0.3	0.3	-89.99	0.0	-19.6	19.6	18.9	0.65	30.083		
300.0	300.0	299.0	299.0	0.5	0.5	-89.99	0.0	-19.6	19.6	18.6	1.00	19.583		
400.0	400.0	399.0	399.0	0.7	0.7	-89.99	0.0	-19.6	19.6	18.2	1.35	14.516		
500.0	500.0	499.0	499.0	0.8	0.8	-89.99	0.0	-19.6	19.6	17.9	1.70	11.532 CC, ES		
600.0	600.0	598.7	598.7	1.0	1.0	-89.60	0.1	-20.4	20.4	18.4	2.05	9.979		
700.0	700.0	698.3	698.2	1.2	1.2	-88.60	0.6	-23.0	23.0	20.6	2.40	9.596 SF		
800.0	800.0	797.7	797.6	1.4	1.4	-87.35	1.3	-27.2	27.3	24.5	2.75	9.937		
900.0	900.0	897.0	896.7	1.5	1.6	-86.15	2.2	-33.2	33.3	30.2	3.10	10.758		
1,000.0	1,000.0	996.1	995.5	1.7	1.8	-85.11	3.5	-40.8	41.1	37.6	3.45	11.911		
1,100.0	1,100.0	1,094.8	1,093.8	1.9	2.0	-84.28	5.0	-50.0	50.5	46.7	3.80	13.300		
1,200.0	1,200.0	1,193.9	1,192.2	2.1	2.2	-83.64	6.8	-60.7	61.4	57.3	4.16	14.789		
1,300.0	1,300.0	1,293.3	1,291.0	2.2	2.5	-83.19	8.5	-71.5	72.5	68.0	4.51	16.072		
1,400.0	1,400.0	1,392.6	1,389.8	2.4	2.7	-82.86	10.3	-82.4	83.5	78.7	4.87	17.166		
1,500.0	1,500.0	1,492.0	1,488.5	2.6	2.9	-82.60	12.1	-93.2	94.6	89.4	5.22	18.111		
1,600.0	1,600.0	1,591.4	1,587.3	2.8	3.2	-82.40	13.9	-104.1	105.7	100.1	5.58	18.934		
1,700.0	1,700.0	1,690.8	1,686.1	2.9	3.4	-82.23	15.7	-114.9	116.7	110.8	5.94	19.658		
1,800.0	1,800.0	1,790.2	1,784.9	3.1	3.7	-82.10	17.5	-125.8	127.8	121.5	6.29	20.299		
1,900.0	1,900.0	1,889.6	1,883.6	3.3	3.9	-81.99	19.2	-136.6	138.8	132.2	6.65	20.871		
2,000.0	2,000.0	1,989.0	1,982.4	3.5	4.2	-81.89	21.0	-147.5	149.9	142.9	7.01	21.384		
2,100.0	2,100.0	2,088.4	2,081.2	3.6	4.4	-81.80	22.8	-158.3	160.9	153.6	7.37	21.848		
2,200.0	2,200.0	2,187.7	2,180.0	3.8	4.7	-81.73	24.6	-169.2	172.0	164.3	7.72	22.268		
2,300.0	2,300.0	2,287.1	2,278.8	4.0	4.9	-81.67	26.4	-180.0	183.1	175.0	8.08	22.650		
2,400.0	2,400.0	2,386.5	2,377.5	4.2	5.2	-81.61	28.1	-190.9	194.1	185.7	8.44	23.001		
2,500.0	2,500.0	2,485.9	2,476.3	4.3	5.5	-81.56	29.9	-201.7	205.2	196.4	8.80	23.322		
2,600.0	2,600.0	2,585.3	2,575.1	4.5	5.7	-81.51	31.7	-212.6	216.2	207.1	9.16	23.618		
2,700.0	2,700.0	2,684.7	2,673.9	4.7	6.0	-81.47	33.5	-223.4	227.3	217.8	9.51	23.892		
2,800.0	2,800.0	2,784.1	2,772.6	4.9	6.2	-81.44	35.3	-234.2	238.4	228.5	9.87	24.146		
2,900.0	2,900.0	2,883.4	2,871.4	5.0	6.5	-81.40	37.1	-245.1	249.4	239.2	10.23	24.382		
3,000.0	3,000.0	2,982.8	2,970.2	5.2	6.7	-81.37	38.8	-255.9	260.5	249.9	10.59	24.602		
3,100.0	3,100.0	3,082.2	3,069.0	5.4	7.0	-81.34	40.6	-266.8	271.5	260.6	10.95	24.808		
3,200.0	3,200.0	3,181.6	3,167.7	5.6	7.2	-81.31	42.4	-277.6	282.6	271.3	11.30	25.000		
3,300.0	3,300.0	3,281.0	3,266.5	5.7	7.5	-81.29	44.2	-288.5	293.6	282.0	11.66	25.181		
3,400.0	3,400.0	3,380.4	3,365.3	5.9	7.8	-81.27	46.0	-299.3	304.7	292.7	12.02	25.351		
3,500.0	3,500.0	3,479.8	3,464.1	6.1	8.0	-81.25	47.8	-310.2	315.8	303.4	12.38	25.510		
3,600.0	3,600.0	3,579.1	3,562.9	6.3	8.3	-81.23	49.5	-321.0	326.8	314.1	12.74	25.661		
3,700.0	3,700.0	3,678.5	3,661.6	6.4	8.5	-81.21	51.3	-331.9	337.9	324.8	13.09	25.804		
3,800.0	3,800.0	3,777.9	3,760.4	6.6	8.8	-81.19	53.1	-342.7	348.9	335.5	13.45	25.939		
3,900.0	3,900.0	3,877.3	3,859.2	6.8	9.0	-81.18	54.9	-353.6	360.0	346.2	13.81	26.067		
4,000.0	4,000.0	3,976.7	3,958.0	7.0	9.3	-81.16	56.7	-364.4	371.1	356.9	14.17	26.188		
4,100.0	4,100.0	4,076.1	4,056.7	7.1	9.6	-100.05	58.5	-375.3	382.3	368.1	14.21	26.898		
4,200.0	4,200.0	4,175.4	4,155.4	7.3	9.8	-100.29	60.2	-386.1	393.8	379.2	14.56	27.049		
4,300.0	4,299.9	4,274.6	4,254.1	7.5	10.1	-100.76	62.0	-396.9	405.5	390.6	14.91	27.201		
4,400.0	4,399.8	4,373.9	4,352.7	7.7	10.3	-101.20	63.8	-407.8	417.2	402.0	15.26	27.346		
4,500.0	4,499.8	4,473.1	4,451.4	7.8	10.6	-101.62	65.6	-418.6	429.0	413.4	15.61	27.485		
4,600.0	4,599.7	4,572.4	4,550.0	8.0	10.9	-102.01	67.4	-429.4	440.8	424.8	15.96	27.618		
4,700.0	4,699.6	4,671.7	4,648.7	8.2	11.1	-102.39	69.1	-440.3	452.6	436.3	16.31	27.746		
4,800.0	4,799.6	4,770.9	4,747.3	8.4	11.4	-102.74	70.9	-451.1	464.4	447.7	16.66	27.867		
4,900.0	4,899.5	4,870.2	4,846.0	8.5	11.6	-103.08	72.7	-461.9	476.2	459.2	17.02	27.984		
5,000.0	4,999.5	4,969.4	4,944.6	8.7	11.9	-103.40	74.5	-472.8	488.1	470.7	17.37	28.097		
5,100.0	5,099.4	5,068.7	5,043.3	8.9	12.1	-103.71	76.3	-483.6	499.9	482.2	17.72	28.204		

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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-123.07	-3.6	-5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	-123.07	-3.6	-5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	-123.07	-3.6	-5.6	6.7	6.0	0.65	10.229		
300.0	300.0	300.0	300.0	0.5	0.5	-123.07	-3.6	-5.6	6.7	5.7	1.00	6.665		
400.0	400.0	400.0	400.0	0.7	0.7	-123.07	-3.6	-5.6	6.7	5.3	1.35	4.943		
500.0	500.0	500.0	500.0	0.8	0.8	-123.07	-3.6	-5.6	6.7	5.0	1.70	3.928		
600.0	600.0	600.0	600.0	1.0	1.0	-123.07	-3.6	-5.6	6.7	4.6	2.05	3.259 CC, ES		
700.0	700.0	699.9	699.9	1.2	1.2	-117.30	-3.3	-6.4	7.2	4.8	2.40	3.002		
800.0	800.0	799.8	799.7	1.4	1.4	-104.54	-2.3	-8.8	9.1	6.3	2.75	3.309		
900.0	900.0	899.6	899.5	1.5	1.6	-92.74	-0.6	-12.7	12.8	9.7	3.10	4.120		
1,000.0	1,000.0	999.5	999.2	1.7	1.7	-85.84	1.2	-17.1	17.2	13.7	3.45	4.978		
1,100.0	1,100.0	1,099.4	1,099.0	1.9	1.9	-81.80	3.1	-21.5	21.7	17.9	3.80	5.716		
1,200.0	1,200.0	1,199.2	1,198.8	2.1	2.1	-79.16	5.0	-25.9	26.4	22.2	4.15	6.347		
1,300.0	1,300.0	1,299.1	1,298.5	2.2	2.3	-77.31	6.8	-30.2	31.0	26.5	4.50	6.888		
1,400.0	1,400.0	1,399.0	1,398.3	2.4	2.5	-75.95	8.7	-34.6	35.7	30.9	4.86	7.356		
1,500.0	1,500.0	1,498.9	1,498.1	2.6	2.7	-74.90	10.5	-39.0	40.4	35.2	5.21	7.763		
1,600.0	1,600.0	1,598.8	1,597.9	2.8	2.9	-74.08	12.4	-43.4	45.1	39.6	5.56	8.122		
1,700.0	1,700.0	1,698.7	1,697.6	2.9	3.1	-73.40	14.2	-47.7	49.9	43.9	5.91	8.439		
1,800.0	1,800.0	1,798.6	1,797.4	3.1	3.2	-72.85	16.1	-52.1	54.6	48.3	6.26	8.721		
1,900.0	1,900.0	1,898.5	1,897.2	3.3	3.4	-72.38	17.9	-56.5	59.3	52.7	6.61	8.974		
2,000.0	2,000.0	1,998.3	1,997.0	3.5	3.6	-71.99	19.8	-60.8	64.0	57.1	6.96	9.202		
2,100.0	2,100.0	2,098.2	2,096.7	3.6	3.8	-71.64	21.6	-65.2	68.8	61.5	7.31	9.408		
2,200.0	2,200.0	2,198.1	2,196.5	3.8	4.0	-71.34	23.5	-69.6	73.5	65.9	7.66	9.596		
2,300.0	2,300.0	2,298.0	2,296.3	4.0	4.2	-71.08	25.3	-74.0	78.3	70.3	8.01	9.768		
2,400.0	2,400.0	2,397.9	2,396.1	4.2	4.4	-70.85	27.2	-78.3	83.0	74.6	8.36	9.925		
2,500.0	2,500.0	2,497.8	2,495.8	4.3	4.6	-70.64	29.1	-82.7	87.8	79.0	8.71	10.070		
2,600.0	2,600.0	2,597.7	2,595.6	4.5	4.8	-70.46	30.9	-87.1	92.5	83.4	9.07	10.204		
2,700.0	2,700.0	2,697.6	2,695.4	4.7	5.0	-70.29	32.8	-91.4	97.2	87.8	9.42	10.328		
2,800.0	2,800.0	2,797.4	2,795.2	4.9	5.2	-70.14	34.6	-95.8	102.0	92.2	9.77	10.443		
2,900.0	2,900.0	2,897.3	2,894.9	5.0	5.4	-70.00	36.5	-100.2	106.7	96.6	10.12	10.550		
3,000.0	3,000.0	2,997.2	2,994.7	5.2	5.5	-69.87	38.3	-104.6	111.5	101.0	10.47	10.650		
3,100.0	3,100.0	3,097.1	3,094.5	5.4	5.7	-69.75	40.2	-108.9	116.2	105.4	10.82	10.743		
3,200.0	3,200.0	3,197.0	3,194.3	5.6	5.9	-69.65	42.0	-113.3	121.0	109.8	11.17	10.831		
3,300.0	3,300.0	3,296.9	3,294.0	5.7	6.1	-69.55	43.9	-117.7	125.7	114.2	11.52	10.914		
3,400.0	3,400.0	3,396.8	3,393.8	5.9	6.3	-69.45	45.7	-122.0	130.5	118.6	11.87	10.991		
3,500.0	3,500.0	3,496.6	3,493.6	6.1	6.5	-69.37	47.6	-126.4	135.2	123.0	12.22	11.064		
3,600.0	3,600.0	3,596.5	3,593.3	6.3	6.7	-69.29	49.5	-130.8	140.0	127.4	12.57	11.133		
3,700.0	3,700.0	3,696.4	3,693.1	6.4	6.9	-69.21	51.3	-135.2	144.7	131.8	12.92	11.199		
3,800.0	3,800.0	3,796.3	3,792.9	6.6	7.1	-69.14	53.2	-139.5	149.5	136.2	13.28	11.261		
3,900.0	3,900.0	3,896.2	3,892.7	6.8	7.3	-69.08	55.0	-143.9	154.2	140.6	13.63	11.319		
4,000.0	4,000.0	3,996.1	3,992.4	7.0	7.5	-69.02	56.9	-148.3	159.0	145.0	13.98	11.375		
4,100.0	4,100.0	4,096.0	4,092.2	7.1	7.7	-88.10	58.7	-152.7	163.7	149.5	14.26	11.482		
4,200.0	4,200.0	4,195.8	4,192.0	7.3	7.9	-88.88	60.6	-157.0	168.4	153.8	14.61	11.528		
4,300.0	4,299.9	4,295.7	4,291.7	7.5	8.1	-89.97	62.4	-161.4	173.1	158.1	14.96	11.572		
4,400.0	4,399.8	4,395.5	4,391.4	7.7	8.2	-90.99	64.3	-165.8	177.9	162.6	15.31	11.618		
4,500.0	4,499.8	4,495.3	4,491.1	7.8	8.4	-91.97	66.1	-170.1	182.7	167.0	15.66	11.664		
4,600.0	4,599.7	4,595.2	4,590.9	8.0	8.6	-92.89	68.0	-174.5	187.6	171.6	16.02	11.711		
4,700.0	4,699.6	4,695.0	4,690.6	8.2	8.8	-93.77	69.8	-178.9	192.5	176.1	16.37	11.759		
4,800.0	4,799.6	4,794.8	4,790.3	8.4	9.0	-94.60	71.7	-183.2	197.5	180.7	16.73	11.806		
4,900.0	4,899.5	4,894.7	4,890.0	8.5	9.2	-95.40	73.5	-187.6	202.5	185.4	17.08	11.853		
5,000.0	4,999.5	4,994.5	4,989.8	8.7	9.4	-96.15	75.4	-192.0	207.5	190.1	17.44	11.901		
5,100.0	5,099.4	5,094.4	5,089.5	8.9	9.6	-96.87	77.3	-196.4	212.6	194.8	17.79	11.947		

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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,199.3	5,194.2	5,189.2	9.1	9.8	-97.55	79.1	-200.7	217.7	199.5	18.15	11.994		
5,300.0	5,299.3	5,294.0	5,288.9	9.3	10.0	-98.21	81.0	-205.1	222.8	204.3	18.51	12.040		
5,400.0	5,399.2	5,393.9	5,388.6	9.4	10.2	-98.83	82.8	-209.5	228.0	209.1	18.87	12.085		
5,500.0	5,499.1	5,493.7	5,488.4	9.6	10.4	-99.43	84.7	-213.8	233.2	214.0	19.22	12.130		
5,600.0	5,599.1	5,593.5	5,588.1	9.8	10.6	-100.00	86.5	-218.2	238.4	218.8	19.58	12.175		
5,700.0	5,699.0	5,693.4	5,687.8	10.0	10.7	-100.54	88.4	-222.6	243.6	223.7	19.94	12.218		
5,800.0	5,799.0	5,793.2	5,787.5	10.2	10.9	-101.06	90.2	-226.9	248.9	228.6	20.30	12.261		
5,900.0	5,898.9	5,893.0	5,887.3	10.3	11.1	-101.57	92.1	-231.3	254.2	233.5	20.66	12.304		
6,000.0	5,998.8	5,992.9	5,987.0	10.5	11.3	-102.05	93.9	-235.7	259.5	238.5	21.02	12.345		
6,100.0	6,098.8	6,092.7	6,086.7	10.7	11.5	-102.51	95.8	-240.1	264.8	243.4	21.38	12.386		
6,200.0	6,198.7	6,192.6	6,186.4	10.9	11.7	-102.95	97.6	-244.4	270.1	248.4	21.74	12.426		
6,300.0	6,298.6	6,292.4	6,286.2	11.1	11.9	-103.38	99.5	-248.8	275.5	253.4	22.10	12.466		
6,400.0	6,398.6	6,392.2	6,385.9	11.2	12.1	-103.79	101.3	-253.2	280.8	258.4	22.46	12.504		
6,500.0	6,498.5	6,492.1	6,485.6	11.4	12.3	-104.18	103.2	-257.5	286.2	263.4	22.82	12.542		
6,600.0	6,598.5	6,591.9	6,585.3	11.6	12.5	-104.56	105.1	-261.9	291.6	268.4	23.18	12.580		
6,700.0	6,698.4	6,691.7	6,685.1	11.8	12.7	-104.93	106.9	-266.3	297.0	273.4	23.54	12.616		
6,800.0	6,798.3	6,791.6	6,784.8	12.0	12.9	-105.28	108.8	-270.6	302.4	278.5	23.90	12.652		
6,900.0	6,898.3	6,893.4	6,886.2	12.1	13.0	-106.98	103.3	-275.1	307.5	283.2	24.25	12.680		
7,000.0	6,998.2	6,989.5	6,979.7	12.3	13.2	-111.52	81.9	-279.2	313.3	288.7	24.58	12.743		
7,100.0	7,098.0	7,077.9	7,061.4	12.5	13.3	87.48	48.6	-282.8	322.5	297.6	24.88	12.963		
7,200.0	7,195.9	7,162.2	7,133.7	12.6	13.4	78.08	5.6	-285.9	334.7	309.6	25.10	13.332		
7,300.0	7,288.8	7,243.4	7,196.7	12.7	13.6	72.09	-45.5	-288.7	348.6	323.4	25.23	13.819		
7,400.0	7,374.0	7,322.1	7,250.2	12.9	13.9	67.38	-103.1	-291.0	363.0	337.7	25.29	14.353		
7,500.0	7,448.7	7,400.0	7,295.0	13.2	14.2	63.60	-166.8	-293.0	376.7	351.4	25.34	14.866		
7,600.0	7,510.9	7,474.2	7,329.3	13.6	14.6	60.72	-232.5	-294.5	388.9	363.4	25.51	15.243		
7,700.0	7,558.5	7,550.0	7,355.2	14.2	15.2	58.56	-303.7	-295.6	398.9	372.9	25.94	15.379		
7,800.0	7,590.2	7,622.0	7,370.9	15.0	15.8	57.15	-373.9	-296.3	406.1	379.4	26.74	15.186		
7,900.0	7,604.9	7,700.0	7,377.9	16.0	16.6	56.39	-451.5	-296.6	410.4	382.3	28.05	14.629		
8,000.0	7,606.0	7,788.7	7,378.0	17.1	17.5	56.35	-540.2	-296.6	411.5	381.6	29.82	13.798		
8,100.0	7,606.0	7,888.7	7,378.0	18.3	18.7	56.41	-640.2	-296.6	412.2	380.3	31.83	12.950		
8,200.0	7,606.0	7,988.7	7,378.0	19.6	19.9	56.48	-740.2	-296.6	412.9	378.9	33.97	12.154		
8,300.0	7,606.0	8,088.7	7,378.0	20.9	21.2	56.55	-840.2	-296.6	413.6	377.4	36.24	11.415		
8,400.0	7,606.0	8,188.7	7,378.0	22.3	22.6	56.62	-940.2	-296.6	414.4	375.8	38.59	10.736		
8,500.0	7,606.0	8,288.7	7,378.0	23.8	24.0	56.68	-1,040.2	-296.6	415.1	374.1	41.03	10.116		
8,600.0	7,606.0	8,388.6	7,378.0	25.3	25.5	56.75	-1,140.1	-296.6	415.8	372.3	43.54	9.550		
8,700.0	7,606.0	8,488.6	7,378.0	26.8	27.0	56.81	-1,240.1	-296.6	416.5	370.4	46.11	9.035		
8,800.0	7,606.0	8,588.6	7,378.0	28.3	28.5	56.88	-1,340.1	-296.6	417.3	368.6	48.72	8.565		
8,900.0	7,606.0	8,688.6	7,378.0	29.9	30.1	56.94	-1,440.1	-296.6	418.0	366.6	51.38	8.136		
9,000.0	7,606.0	8,788.6	7,378.0	31.5	31.7	57.01	-1,540.1	-296.6	418.7	364.7	54.07	7.744		
9,100.0	7,606.0	8,888.6	7,378.0	33.1	33.3	57.07	-1,640.1	-296.6	419.5	362.7	56.80	7.386		
9,200.0	7,606.0	8,988.6	7,378.0	34.7	34.9	57.14	-1,740.1	-296.6	420.2	360.7	59.55	7.056		
9,300.0	7,606.0	9,088.6	7,378.0	36.4	36.5	57.20	-1,840.1	-296.6	420.9	358.6	62.33	6.753		
9,400.0	7,606.0	9,188.6	7,378.0	38.0	38.1	57.27	-1,940.1	-296.6	421.7	356.5	65.13	6.474		
9,500.0	7,606.0	9,288.6	7,378.0	39.7	39.8	57.33	-2,040.1	-296.6	422.4	354.5	67.96	6.216		
9,600.0	7,606.0	9,388.6	7,378.0	41.3	41.4	57.40	-2,140.1	-296.6	423.1	352.3	70.80	5.977		
9,700.0	7,606.0	9,488.6	7,378.0	43.0	43.1	57.46	-2,240.1	-296.6	423.9	350.2	73.65	5.755		
9,800.0	7,606.0	9,588.6	7,378.0	44.7	44.8	57.52	-2,340.1	-296.6	424.6	348.1	76.53	5.549		
9,900.0	7,606.0	9,688.6	7,378.0	46.3	46.4	57.59	-2,440.1	-296.6	425.4	345.9	79.41	5.356		
10,000.0	7,606.0	9,788.6	7,378.0	48.0	48.1	57.65	-2,540.1	-296.6	426.1	343.8	82.31	5.177		
10,100.0	7,606.0	9,888.6	7,378.0	49.7	49.8	57.71	-2,640.1	-296.6	426.8	341.6	85.22	5.008		
10,200.0	7,606.0	9,988.6	7,378.0	51.4	51.5	57.77	-2,740.1	-296.6	427.6	339.4	88.15	4.851		
10,300.0	7,606.0	10,088.6	7,378.0	53.1	53.2	57.84	-2,840.1	-296.6	428.3	337.2	91.08	4.703		

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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,606.0	10,188.6	7,378.0	54.8	54.9	57.90	-2,940.1	-296.6	429.0	335.0	94.02	4.563		
10,500.0	7,606.0	10,288.6	7,378.0	56.5	56.6	57.96	-3,040.1	-296.6	429.8	332.8	96.97	4.432		
10,600.0	7,606.0	10,388.6	7,378.0	58.2	58.3	58.02	-3,140.1	-296.6	430.5	330.6	99.93	4.308		
10,700.0	7,606.0	10,488.6	7,378.0	59.9	60.0	58.08	-3,240.1	-296.6	431.3	328.4	102.90	4.191		
10,800.0	7,606.0	10,588.6	7,378.0	61.7	61.7	58.14	-3,340.1	-296.6	432.0	326.1	105.88	4.080		
10,900.0	7,606.0	10,688.6	7,378.0	63.4	63.4	58.20	-3,440.1	-296.6	432.7	323.9	108.86	3.975		
11,000.0	7,606.0	10,788.6	7,378.0	65.1	65.1	58.27	-3,540.1	-296.6	433.5	321.6	111.85	3.876		
11,100.0	7,606.0	10,888.6	7,378.0	66.8	66.8	58.33	-3,640.1	-296.6	434.2	319.4	114.85	3.781		
11,200.0	7,606.0	10,988.5	7,378.0	68.5	68.6	58.39	-3,740.0	-296.6	435.0	317.1	117.86	3.691		
11,300.0	7,606.0	11,088.5	7,378.0	70.3	70.3	58.45	-3,840.0	-296.6	435.7	314.8	120.87	3.605		
11,400.0	7,606.0	11,188.5	7,378.0	72.0	72.0	58.51	-3,940.0	-296.6	436.5	312.6	123.88	3.523		
11,500.0	7,606.0	11,288.5	7,378.0	73.7	73.7	58.57	-4,040.0	-296.6	437.2	310.3	126.91	3.445		
11,600.0	7,606.0	11,388.5	7,378.0	75.4	75.5	58.63	-4,140.0	-296.6	437.9	308.0	129.93	3.371		
11,700.0	7,606.0	11,488.5	7,378.0	77.2	77.2	58.69	-4,240.0	-296.6	438.7	305.7	132.97	3.299		
11,800.0	7,606.0	11,588.5	7,378.0	78.9	78.9	58.74	-4,340.0	-296.6	439.4	303.4	136.01	3.231		
11,900.0	7,606.0	11,688.5	7,378.0	80.6	80.6	58.80	-4,440.0	-296.6	440.2	301.1	139.05	3.166		
12,000.0	7,606.0	11,788.5	7,378.0	82.4	82.4	58.86	-4,540.0	-296.6	440.9	298.8	142.10	3.103		
12,100.0	7,606.0	11,888.5	7,378.0	84.1	84.1	58.92	-4,640.0	-296.6	441.7	296.5	145.15	3.043		
12,200.0	7,606.0	11,988.5	7,378.0	85.8	85.8	58.98	-4,740.0	-296.6	442.4	294.2	148.21	2.985		
12,300.0	7,606.0	12,088.5	7,378.0	87.6	87.6	59.04	-4,840.0	-296.6	443.2	291.9	151.28	2.930		
12,400.0	7,606.0	12,188.5	7,378.0	89.3	89.3	59.10	-4,940.0	-296.6	443.9	289.6	154.35	2.876		
12,500.0	7,606.0	12,288.5	7,378.0	91.0	91.0	59.15	-5,040.0	-296.6	444.7	287.3	157.42	2.825		
12,600.0	7,606.0	12,388.5	7,378.0	92.8	92.8	59.21	-5,140.0	-296.6	445.4	284.9	160.49	2.775		
12,700.0	7,606.0	12,488.5	7,378.0	94.5	94.5	59.27	-5,240.0	-296.6	446.2	282.6	163.58	2.728		
12,800.0	7,606.0	12,588.5	7,378.0	96.2	96.2	59.32	-5,340.0	-296.6	446.9	280.3	166.66	2.682		
12,900.0	7,606.0	12,688.5	7,378.0	98.0	98.0	59.38	-5,440.0	-296.6	447.7	277.9	169.75	2.637		
13,000.0	7,606.0	12,788.5	7,378.0	99.7	99.7	59.44	-5,540.0	-296.6	448.4	275.6	172.84	2.594		
13,100.0	7,606.0	12,888.5	7,378.0	101.5	101.4	59.50	-5,640.0	-296.6	449.2	273.2	175.94	2.553		
13,200.0	7,606.0	12,988.5	7,378.0	103.2	103.2	59.55	-5,740.0	-296.6	449.9	270.9	179.04	2.513		
13,300.0	7,606.0	13,088.5	7,378.0	104.9	104.9	59.61	-5,840.0	-296.6	450.7	268.5	182.15	2.474		
13,400.0	7,606.0	13,188.5	7,378.0	106.7	106.7	59.66	-5,940.0	-296.6	451.4	266.2	185.26	2.437		
13,500.0	7,606.0	13,288.5	7,378.0	108.4	108.4	59.72	-6,040.0	-296.6	452.2	263.8	188.37	2.401		
13,585.5	7,606.0	13,373.9	7,378.0	109.9	109.9	59.77	-6,125.4	-296.6	452.8	261.8	191.03	2.370 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3G-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	123.03	-3.6	5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	123.03	-3.6	5.6	6.7	6.4	0.30	21.978		
200.0	200.0	200.0	200.0	0.3	0.3	123.03	-3.6	5.6	6.7	6.0	0.65	10.225		
300.0	300.0	300.0	300.0	0.5	0.5	123.03	-3.6	5.6	6.7	5.7	1.00	6.662		
400.0	400.0	400.0	400.0	0.7	0.7	123.03	-3.6	5.6	6.7	5.3	1.35	4.941 CC, ES		
500.0	500.0	499.9	499.9	0.8	0.9	117.75	-3.4	6.4	7.3	5.6	1.70	4.273		
600.0	600.0	599.8	599.7	1.0	1.0	106.33	-2.6	8.9	9.3	7.3	2.05	4.540		
700.0	700.0	699.5	699.4	1.2	1.2	95.84	-1.3	13.1	13.2	10.8	2.40	5.489		
800.0	800.0	799.2	798.9	1.4	1.4	88.80	0.4	18.7	18.7	16.0	2.75	6.823		
900.0	900.0	899.0	898.5	1.5	1.6	84.89	2.2	24.6	24.7	21.6	3.10	7.981		
1,000.0	1,000.0	998.8	998.1	1.7	1.8	82.51	4.0	30.4	30.7	27.3	3.44	8.923		
1,100.0	1,100.0	1,098.6	1,097.8	1.9	2.0	80.91	5.8	36.3	36.8	33.0	3.80	9.700		
1,200.0	1,200.0	1,198.4	1,197.4	2.1	2.2	79.77	7.6	42.1	42.9	38.8	4.15	10.349		
1,300.0	1,300.0	1,298.3	1,297.0	2.2	2.4	78.91	9.4	48.0	49.0	44.5	4.50	10.900		
1,400.0	1,400.0	1,398.1	1,396.6	2.4	2.6	78.24	11.2	53.9	55.1	50.3	4.85	11.372		
1,500.0	1,500.0	1,497.9	1,496.3	2.6	2.8	77.70	13.0	59.7	61.2	56.0	5.20	11.781		
1,600.0	1,600.0	1,597.7	1,595.9	2.8	3.0	77.27	14.8	65.6	67.4	61.8	5.55	12.139		
1,700.0	1,700.0	1,697.5	1,695.5	2.9	3.2	76.90	16.6	71.5	73.5	67.6	5.90	12.455		
1,800.0	1,800.0	1,797.3	1,795.1	3.1	3.4	76.59	18.4	77.3	79.6	73.4	6.25	12.735		
1,900.0	1,900.0	1,897.1	1,894.7	3.3	3.6	76.33	20.2	83.2	85.8	79.2	6.60	12.986		
2,000.0	2,000.0	1,996.9	1,994.4	3.5	3.8	76.10	22.0	89.0	91.9	84.9	6.96	13.212		
2,100.0	2,100.0	2,096.7	2,094.0	3.6	4.0	75.90	23.8	94.9	98.0	90.7	7.31	13.416		
2,200.0	2,200.0	2,196.6	2,193.6	3.8	4.2	75.72	25.6	100.8	104.2	96.5	7.66	13.601		
2,300.0	2,300.0	2,296.4	2,293.2	4.0	4.4	75.56	27.4	106.6	110.3	102.3	8.01	13.770		
2,400.0	2,400.0	2,396.2	2,392.9	4.2	4.6	75.42	29.2	112.5	116.4	108.1	8.36	13.925		
2,500.0	2,500.0	2,496.0	2,492.5	4.3	4.8	75.30	31.1	118.3	122.6	113.9	8.71	14.067		
2,600.0	2,600.0	2,595.8	2,592.1	4.5	5.0	75.18	32.9	124.2	128.7	119.7	9.07	14.199		
2,700.0	2,700.0	2,695.6	2,691.7	4.7	5.2	75.08	34.7	130.1	134.9	125.4	9.42	14.320		
2,800.0	2,800.0	2,795.4	2,791.3	4.9	5.4	74.98	36.5	135.9	141.0	131.2	9.77	14.433		
2,900.0	2,900.0	2,895.2	2,891.0	5.0	5.6	74.90	38.3	141.8	147.1	137.0	10.12	14.538		
3,000.0	3,000.0	2,995.0	2,990.6	5.2	5.8	74.82	40.1	147.6	153.3	142.8	10.47	14.636		
3,100.0	3,100.0	3,094.9	3,090.2	5.4	6.0	74.74	41.9	153.5	159.4	148.6	10.82	14.728		
3,200.0	3,200.0	3,194.7	3,189.8	5.6	6.2	74.67	43.7	159.4	165.6	154.4	11.18	14.813		
3,300.0	3,300.0	3,294.5	3,289.5	5.7	6.5	74.61	45.5	165.2	171.7	160.2	11.53	14.894		
3,400.0	3,400.0	3,394.3	3,389.1	5.9	6.7	74.55	47.3	171.1	177.8	166.0	11.88	14.970		
3,500.0	3,500.0	3,494.1	3,488.7	6.1	6.9	74.50	49.1	177.0	184.0	171.8	12.23	15.041		
3,600.0	3,600.0	3,593.9	3,588.3	6.3	7.1	74.44	50.9	182.8	190.1	177.5	12.58	15.109		
3,700.0	3,700.0	3,693.7	3,687.9	6.4	7.3	74.40	52.7	188.7	196.3	183.3	12.94	15.172		
3,800.0	3,800.0	3,793.5	3,787.6	6.6	7.5	74.35	54.5	194.5	202.4	189.1	13.29	15.233		
3,900.0	3,900.0	3,893.3	3,887.2	6.8	7.7	74.31	56.3	200.4	208.6	194.9	13.64	15.290		
4,000.0	4,000.0	3,993.2	3,986.8	7.0	7.9	74.27	58.1	206.3	214.7	200.7	13.99	15.345		
4,100.0	4,100.0	4,093.0	4,086.5	7.1	8.1	55.49	59.9	212.1	220.3	206.1	14.25	15.460		
4,200.0	4,200.0	4,192.9	4,186.1	7.3	8.3	55.96	61.7	218.0	225.0	210.4	14.60	15.408		
4,300.0	4,299.9	4,292.7	4,285.8	7.5	8.5	56.63	63.5	223.9	229.2	214.2	14.95	15.326		
4,400.0	4,399.8	4,392.6	4,385.5	7.7	8.7	57.29	65.3	229.7	233.4	218.1	15.31	15.250		
4,500.0	4,499.8	4,492.5	4,485.2	7.8	8.9	57.92	67.1	235.6	237.6	222.0	15.66	15.178		
4,600.0	4,599.7	4,592.4	4,584.9	8.0	9.1	58.53	68.9	241.4	241.9	225.9	16.01	15.110		
4,700.0	4,699.6	4,692.2	4,684.6	8.2	9.3	59.12	70.7	247.3	246.2	229.8	16.36	15.047		
4,800.0	4,799.6	4,792.1	4,784.3	8.4	9.5	59.69	72.5	253.2	250.5	233.8	16.72	14.987		
4,900.0	4,899.5	4,892.0	4,884.0	8.5	9.7	60.23	74.3	259.0	254.9	237.8	17.07	14.930		
5,000.0	4,999.5	4,991.9	4,983.6	8.7	9.9	60.76	76.2	264.9	259.2	241.8	17.43	14.877		
5,100.0	5,099.4	5,091.8	5,083.3	8.9	10.1	61.28	78.0	270.8	263.6	245.9	17.78	14.827		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3G-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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)				
5,200.0	5,199.3	5,191.6	5,183.0	9.1	10.3	61.77	79.8	276.6	268.0	249.9	18.14	14.779		
5,300.0	5,299.3	5,291.5	5,282.7	9.3	10.5	62.25	81.6	282.5	272.5	254.0	18.49	14.734		
5,400.0	5,399.2	5,391.4	5,382.4	9.4	10.7	62.72	83.4	288.4	276.9	258.1	18.85	14.691		
5,500.0	5,499.1	5,491.3	5,482.1	9.6	10.9	63.17	85.2	294.2	281.4	262.2	19.21	14.650		
5,600.0	5,599.1	5,591.1	5,581.8	9.8	11.2	63.60	87.0	300.1	285.9	266.3	19.56	14.611		
5,700.0	5,699.0	5,691.0	5,681.5	10.0	11.4	64.02	88.8	306.0	290.4	270.4	19.92	14.574		
5,800.0	5,799.0	5,790.9	5,781.1	10.2	11.6	64.43	90.6	311.8	294.9	274.6	20.28	14.539		
5,900.0	5,898.9	5,890.8	5,880.8	10.3	11.8	64.83	92.4	317.7	299.4	278.8	20.64	14.506		
6,000.0	5,998.8	5,990.6	5,980.5	10.5	12.0	65.22	94.2	323.6	303.9	282.9	21.00	14.474		
6,100.0	6,098.8	6,090.5	6,080.2	10.7	12.2	65.59	96.0	329.4	308.5	287.1	21.36	14.443		
6,200.0	6,198.7	6,190.4	6,179.9	10.9	12.4	65.95	97.8	335.3	313.1	291.3	21.72	14.414		
6,300.0	6,298.6	6,290.3	6,279.6	11.1	12.6	66.30	99.6	341.2	317.6	295.6	22.08	14.387		
6,400.0	6,398.6	6,390.1	6,379.3	11.2	12.8	66.65	101.4	347.0	322.2	299.8	22.44	14.360		
6,500.0	6,498.5	6,490.0	6,479.0	11.4	13.0	66.98	103.2	352.9	326.8	304.0	22.80	14.335		
6,600.0	6,598.5	6,589.9	6,578.6	11.6	13.2	67.30	105.0	358.7	331.4	308.3	23.16	14.310		
6,700.0	6,698.4	6,689.8	6,678.3	11.8	13.4	67.62	106.8	364.6	336.1	312.5	23.52	14.287		
6,800.0	6,798.3	6,789.6	6,778.0	12.0	13.6	67.92	108.6	370.5	340.7	316.8	23.88	14.265		
6,900.0	6,898.3	6,891.4	6,879.4	12.1	13.8	69.25	104.3	376.4	345.1	320.9	24.24	14.235		
7,000.0	6,998.2	6,988.1	6,973.7	12.3	13.9	73.14	83.9	382.0	349.9	325.3	24.60	14.225		
7,100.0	7,098.0	7,077.3	7,056.4	12.5	14.1	-76.03	51.2	386.9	357.5	332.6	24.92	14.346		
7,200.0	7,195.9	7,162.4	7,129.8	12.6	14.2	-74.40	8.4	391.2	367.5	342.4	25.15	14.612		
7,300.0	7,288.8	7,244.4	7,193.7	12.7	14.4	-70.67	-42.6	394.9	378.9	353.6	25.27	14.994		
7,400.0	7,374.0	7,323.9	7,248.1	12.9	14.6	-67.11	-100.4	398.1	390.5	365.2	25.31	15.428		
7,500.0	7,448.7	7,400.0	7,292.3	13.2	15.0	-64.08	-162.2	400.7	401.5	376.2	25.35	15.839		
7,600.0	7,510.9	7,477.5	7,328.5	13.6	15.4	-61.57	-230.7	402.9	411.2	385.6	25.55	16.094		
7,700.0	7,558.5	7,550.0	7,353.7	14.2	15.9	-59.74	-298.6	404.3	418.8	392.8	26.02	16.096		
7,800.0	7,590.2	7,626.6	7,370.8	15.0	16.5	-58.44	-373.2	405.4	424.0	397.0	26.96	15.729		
7,900.0	7,604.9	7,700.0	7,377.7	16.0	17.2	-57.78	-446.2	405.8	426.4	398.0	28.38	15.026		
8,000.0	7,606.0	7,794.0	7,378.0	17.1	18.2	-57.65	-540.2	405.8	426.1	395.8	30.25	14.086		
8,100.0	7,606.0	7,894.0	7,378.0	18.3	19.3	-57.58	-640.2	405.8	425.3	393.1	32.25	13.188		
8,200.0	7,606.0	7,994.0	7,378.0	19.6	20.5	-57.52	-740.2	405.8	424.6	390.2	34.39	12.346		
8,300.0	7,606.0	8,094.0	7,378.0	20.9	21.8	-57.46	-840.2	405.8	423.8	387.2	36.64	11.568		
8,400.0	7,606.0	8,194.0	7,378.0	22.3	23.1	-57.39	-940.2	405.8	423.1	384.1	38.98	10.855		
8,500.0	7,606.0	8,294.0	7,378.0	23.8	24.5	-57.33	-1,040.2	405.8	422.4	381.0	41.39	10.204		
8,600.0	7,606.0	8,394.0	7,378.0	25.3	26.0	-57.26	-1,140.1	405.8	421.6	377.8	43.87	9.612		
8,700.0	7,606.0	8,493.9	7,378.0	26.8	27.4	-57.20	-1,240.1	405.8	420.9	374.5	46.39	9.073		
8,800.0	7,606.0	8,593.9	7,378.0	28.3	28.9	-57.14	-1,340.1	405.8	420.2	371.2	48.96	8.582		
8,900.0	7,606.0	8,693.9	7,378.0	29.9	30.5	-57.07	-1,440.1	405.8	419.4	367.9	51.56	8.135		
9,000.0	7,606.0	8,793.9	7,378.0	31.5	32.0	-57.01	-1,540.1	405.8	418.7	364.5	54.19	7.726		
9,100.0	7,606.0	8,893.9	7,378.0	33.1	33.6	-56.94	-1,640.1	405.8	418.0	361.1	56.85	7.353		
9,200.0	7,606.0	8,993.9	7,378.0	34.7	35.2	-56.88	-1,740.1	405.8	417.2	357.7	59.52	7.010		
9,300.0	7,606.0	9,093.9	7,378.0	36.4	36.8	-56.81	-1,840.1	405.8	416.5	354.3	62.22	6.695		
9,400.0	7,606.0	9,193.9	7,378.0	38.0	38.4	-56.74	-1,940.1	405.8	415.8	350.9	64.92	6.404		
9,500.0	7,606.0	9,293.9	7,378.0	39.7	40.1	-56.68	-2,040.1	405.8	415.1	347.4	67.64	6.136		
9,600.0	7,606.0	9,393.9	7,378.0	41.3	41.7	-56.61	-2,140.1	405.8	414.3	344.0	70.37	5.888		
9,700.0	7,606.0	9,493.9	7,378.0	43.0	43.4	-56.55	-2,240.1	405.8	413.6	340.5	73.11	5.658		
9,800.0	7,606.0	9,593.9	7,378.0	44.7	45.0	-56.48	-2,340.1	405.8	412.9	337.0	75.85	5.443		
9,900.0	7,606.0	9,693.9	7,378.0	46.3	46.7	-56.41	-2,440.1	405.8	412.1	333.5	78.60	5.244		
10,000.0	7,606.0	9,793.9	7,378.0	48.0	48.3	-56.34	-2,540.1	405.8	411.4	330.1	81.35	5.057		
10,100.0	7,606.0	9,893.9	7,378.0	49.7	50.0	-56.28	-2,640.1	405.8	410.7	326.6	84.11	4.883		
10,200.0	7,606.0	9,993.9	7,378.0	51.4	51.7	-56.21	-2,740.1	405.8	410.0	323.1	86.87	4.719		
10,300.0	7,606.0	10,093.9	7,378.0	53.1	53.4	-56.14	-2,840.1	405.8	409.2	319.6	89.63	4.566		

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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3G-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					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			
10,400.0	7,606.0	10,193.9	7,378.0	54.8	55.1	-56.07	-2,940.1	405.8	408.5	316.1	92.39	4.421		
10,500.0	7,606.0	10,293.9	7,378.0	56.5	56.8	-56.01	-3,040.1	405.8	407.8	312.6	95.16	4.285		
10,600.0	7,606.0	10,393.9	7,378.0	58.2	58.5	-55.94	-3,140.1	405.8	407.1	309.1	97.92	4.157		
10,700.0	7,606.0	10,493.9	7,378.0	59.9	60.2	-55.87	-3,240.1	405.8	406.3	305.7	100.69	4.036		
10,800.0	7,606.0	10,593.9	7,378.0	61.7	61.9	-55.80	-3,340.1	405.8	405.6	302.2	103.45	3.921		
10,900.0	7,606.0	10,693.9	7,378.0	63.4	63.6	-55.73	-3,440.1	405.8	404.9	298.7	106.21	3.812		
11,000.0	7,606.0	10,793.9	7,378.0	65.1	65.3	-55.66	-3,540.1	405.8	404.2	295.2	108.97	3.709		
11,100.0	7,606.0	10,893.9	7,378.0	66.8	67.0	-55.59	-3,640.1	405.8	403.5	291.7	111.73	3.611		
11,200.0	7,606.0	10,993.9	7,378.0	68.5	68.7	-55.52	-3,740.0	405.8	402.7	288.3	114.48	3.518		
11,300.0	7,606.0	11,093.8	7,378.0	70.3	70.4	-55.45	-3,840.0	405.8	402.0	284.8	117.24	3.429		
11,400.0	7,606.0	11,193.8	7,378.0	72.0	72.2	-55.38	-3,940.0	405.8	401.3	281.3	119.99	3.345		
11,500.0	7,606.0	11,293.8	7,378.0	73.7	73.9	-55.31	-4,040.0	405.8	400.6	277.9	122.74	3.264		
11,600.0	7,606.0	11,393.8	7,378.0	75.4	75.6	-55.24	-4,140.0	405.8	399.9	274.4	125.48	3.187		
11,700.0	7,606.0	11,493.8	7,378.0	77.2	77.3	-55.16	-4,240.0	405.8	399.2	270.9	128.22	3.113		
11,800.0	7,606.0	11,593.8	7,378.0	78.9	79.1	-55.09	-4,340.0	405.8	398.4	267.5	130.96	3.042		
11,900.0	7,606.0	11,693.8	7,378.0	80.6	80.8	-55.02	-4,440.0	405.8	397.7	264.0	133.70	2.975		
12,000.0	7,606.0	11,793.8	7,378.0	82.4	82.5	-54.95	-4,540.0	405.8	397.0	260.6	136.43	2.910		
12,100.0	7,606.0	11,893.8	7,378.0	84.1	84.2	-54.88	-4,640.0	405.8	396.3	257.1	139.16	2.848		
12,200.0	7,606.0	11,993.8	7,378.0	85.8	86.0	-54.80	-4,740.0	405.8	395.6	253.7	141.88	2.788		
12,300.0	7,606.0	12,093.8	7,378.0	87.6	87.7	-54.73	-4,840.0	405.8	394.9	250.3	144.60	2.731		
12,400.0	7,606.0	12,193.8	7,378.0	89.3	89.4	-54.66	-4,940.0	405.8	394.2	246.8	147.31	2.676		
12,500.0	7,606.0	12,293.8	7,378.0	91.0	91.2	-54.58	-5,040.0	405.8	393.4	243.4	150.02	2.623		
12,600.0	7,606.0	12,393.8	7,378.0	92.8	92.9	-54.51	-5,140.0	405.8	392.7	240.0	152.73	2.571		
12,700.0	7,606.0	12,493.8	7,378.0	94.5	94.6	-54.44	-5,240.0	405.8	392.0	236.6	155.43	2.522		
12,800.0	7,606.0	12,593.8	7,378.0	96.2	96.4	-54.36	-5,340.0	405.8	391.3	233.2	158.12	2.475		
12,900.0	7,606.0	12,693.8	7,378.0	98.0	98.1	-54.29	-5,440.0	405.8	390.6	229.8	160.82	2.429		
13,000.0	7,606.0	12,793.8	7,378.0	99.7	99.8	-54.21	-5,540.0	405.8	389.9	226.4	163.50	2.385		
13,100.0	7,606.0	12,893.8	7,378.0	101.5	101.6	-54.14	-5,640.0	405.8	389.2	223.0	166.18	2.342		
13,200.0	7,606.0	12,993.8	7,378.0	103.2	103.3	-54.06	-5,740.0	405.8	388.5	219.6	168.86	2.301		
13,300.0	7,606.0	13,093.8	7,378.0	104.9	105.0	-53.99	-5,840.0	405.8	387.8	216.2	171.53	2.261		
13,400.0	7,606.0	13,193.8	7,378.0	106.7	106.8	-53.91	-5,940.0	405.8	387.1	212.9	174.19	2.222		
13,500.0	7,606.0	13,293.8	7,378.0	108.4	108.5	-53.83	-6,040.0	405.8	386.4	209.5	176.85	2.185		
13,585.5	7,606.0	13,379.2	7,378.0	109.9	110.0	-53.77	-6,125.4	405.8	385.8	206.6	179.12	2.154 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3H-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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	89.98	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	89.98	0.0	11.2	11.2	10.9	0.30	36.850		
200.0	200.0	200.0	200.0	0.3	0.3	89.98	0.0	11.2	11.2	10.5	0.65	17.144		
300.0	300.0	300.0	300.0	0.5	0.5	89.98	0.0	11.2	11.2	10.2	1.00	11.171		
333.3	333.3	333.3	333.3	0.6	0.6	89.98	0.0	11.2	11.2	10.1	1.12	10.008 CC		
400.0	400.0	399.9	399.9	0.7	0.7	89.80	0.0	11.4	11.4	10.1	1.35	8.444 ES		
500.0	500.0	499.7	499.7	0.8	0.9	88.60	0.3	13.1	13.1	11.4	1.70	7.725 SF		
600.0	600.0	599.4	599.3	1.0	1.0	86.95	0.9	16.5	16.6	14.5	2.05	8.096		
700.0	700.0	698.9	698.7	1.2	1.2	85.45	1.7	21.7	21.8	19.4	2.40	9.084		
800.0	800.0	798.2	797.8	1.4	1.4	84.30	2.8	28.5	28.7	26.0	2.75	10.450		
900.0	900.0	897.3	896.4	1.5	1.6	83.47	4.2	37.0	37.4	34.3	3.10	12.062		
1,000.0	1,000.0	996.2	994.9	1.7	1.9	82.87	5.9	47.1	47.7	44.2	3.45	13.822		
1,100.0	1,100.0	1,095.6	1,093.7	1.9	2.1	82.46	7.6	57.6	58.5	54.7	3.81	15.371		
1,200.0	1,200.0	1,195.0	1,192.5	2.1	2.3	82.18	9.4	68.2	69.3	65.1	4.16	16.654		
1,300.0	1,300.0	1,294.5	1,291.4	2.2	2.6	81.98	11.1	78.8	80.1	75.6	4.52	17.734		
1,400.0	1,400.0	1,393.9	1,390.2	2.4	2.8	81.83	12.8	89.4	90.9	86.0	4.87	18.655		
1,500.0	1,500.0	1,493.3	1,489.0	2.6	3.1	81.71	14.6	100.0	101.7	96.4	5.23	19.449		
1,600.0	1,600.0	1,592.7	1,587.9	2.8	3.3	81.61	16.3	110.6	112.5	106.9	5.58	20.141		
1,700.0	1,700.0	1,692.1	1,686.7	2.9	3.6	81.53	18.1	121.2	123.3	117.3	5.94	20.749		
1,800.0	1,800.0	1,791.5	1,785.5	3.1	3.8	81.46	19.8	131.8	134.1	127.8	6.30	21.288		
1,900.0	1,900.0	1,891.0	1,884.4	3.3	4.1	81.40	21.5	142.4	144.9	138.2	6.65	21.769		
2,000.0	2,000.0	1,990.4	1,983.2	3.5	4.3	81.35	23.3	153.0	155.6	148.6	7.01	22.200		
2,100.0	2,100.0	2,089.8	2,082.0	3.6	4.6	81.31	25.0	163.6	166.4	159.1	7.37	22.590		
2,200.0	2,200.0	2,189.2	2,180.9	3.8	4.8	81.27	26.7	174.2	177.2	169.5	7.73	22.943		
2,300.0	2,300.0	2,288.6	2,279.7	4.0	5.1	81.23	28.5	184.8	188.0	180.0	8.08	23.264		
2,400.0	2,400.0	2,388.0	2,378.5	4.2	5.3	81.20	30.2	195.3	198.8	190.4	8.44	23.559		
2,500.0	2,500.0	2,487.4	2,477.4	4.3	5.6	81.18	32.0	205.9	209.6	200.8	8.80	23.829		
2,600.0	2,600.0	2,586.9	2,576.2	4.5	5.8	81.15	33.7	216.5	220.4	211.3	9.15	24.078		
2,700.0	2,700.0	2,686.3	2,675.0	4.7	6.1	81.13	35.4	227.1	231.2	221.7	9.51	24.308		
2,800.0	2,800.0	2,785.7	2,773.9	4.9	6.4	81.11	37.2	237.7	242.0	232.2	9.87	24.521		
2,900.0	2,900.0	2,885.1	2,872.7	5.0	6.6	81.09	38.9	248.3	252.8	242.6	10.23	24.719		
3,000.0	3,000.0	2,984.5	2,971.5	5.2	6.9	81.08	40.7	258.9	263.6	253.0	10.59	24.904		
3,100.0	3,100.0	3,083.9	3,070.4	5.4	7.1	81.06	42.4	269.5	274.4	263.5	10.94	25.077		
3,200.0	3,200.0	3,183.4	3,169.2	5.6	7.4	81.05	44.1	280.1	285.2	273.9	11.30	25.239		
3,300.0	3,300.0	3,282.8	3,268.0	5.7	7.6	81.03	45.9	290.7	296.0	284.3	11.66	25.390		
3,400.0	3,400.0	3,382.2	3,366.9	5.9	7.9	81.02	47.6	301.3	306.8	294.8	12.02	25.533		
3,500.0	3,500.0	3,481.6	3,465.7	6.1	8.1	81.01	49.3	311.9	317.6	305.2	12.37	25.667		
3,600.0	3,600.0	3,581.0	3,564.5	6.3	8.4	81.00	51.1	322.5	328.4	315.7	12.73	25.794		
3,700.0	3,700.0	3,680.4	3,663.4	6.4	8.6	80.99	52.8	333.0	339.2	326.1	13.09	25.914		
3,800.0	3,800.0	3,779.8	3,762.2	6.6	8.9	80.98	54.6	343.6	350.0	336.5	13.45	26.027		
3,900.0	3,900.0	3,879.3	3,861.0	6.8	9.2	80.97	56.3	354.2	360.8	347.0	13.80	26.135		
4,000.0	4,000.0	3,978.7	3,959.9	7.0	9.4	80.96	58.0	364.8	371.6	357.4	14.16	26.237		
4,100.0	4,100.0	4,078.1	4,058.8	7.1	9.7	62.09	59.8	375.4	382.0	367.8	14.22	26.863		
4,200.0	4,200.0	4,177.6	4,157.7	7.3	9.9	62.34	61.5	386.0	391.6	377.0	14.57	26.873		
4,300.0	4,299.9	4,277.2	4,256.6	7.5	10.2	62.77	63.3	396.6	400.7	385.8	14.92	26.859		
4,400.0	4,399.8	4,376.7	4,355.6	7.7	10.4	63.18	65.0	407.2	409.9	394.7	15.27	26.846		
4,500.0	4,499.8	4,476.2	4,454.5	7.8	10.7	63.57	66.7	417.8	419.2	403.5	15.62	26.833		
4,600.0	4,599.7	4,575.8	4,553.5	8.0	10.9	63.95	68.5	428.4	428.4	412.4	15.97	26.821		
4,700.0	4,699.6	4,675.3	4,652.4	8.2	11.2	64.31	70.2	439.0	437.7	421.3	16.32	26.809		
4,800.0	4,799.6	4,774.8	4,751.4	8.4	11.5	64.65	72.0	449.7	446.9	430.3	16.68	26.798		
4,900.0	4,899.5	4,874.4	4,850.3	8.5	11.7	64.99	73.7	460.3	456.2	439.2	17.03	26.788		
5,000.0	4,999.5	4,973.9	4,949.3	8.7	12.0	65.30	75.4	470.9	465.5	448.1	17.38	26.777		

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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File) - File 3H-32H-K268 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
5,100.0	5,099.4	5,073.4	5,048.3	8.9	12.2	65.61	77.2	481.5	474.8	457.1	17.74	26.768						
5,200.0	5,199.3	5,173.0	5,147.2	9.1	12.5	65.90	78.9	492.1	484.2	466.1	18.09	26.758						
5,300.0	5,299.3	5,272.5	5,246.2	9.3	12.7	66.19	80.7	502.7	493.5	475.1	18.45	26.749						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3I-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	98.22	-3.6	25.2	25.4					
100.0	100.0	100.0	100.0	0.2	0.2	98.22	-3.6	25.2	25.4	25.1	0.30	83.774		
200.0	200.0	200.0	200.0	0.3	0.3	98.22	-3.6	25.2	25.4	24.8	0.65	38.975		
300.0	300.0	300.4	300.4	0.5	0.5	99.23	-4.0	24.4	24.7	23.7	1.00	24.622		
400.0	400.0	400.7	400.7	0.7	0.7	102.67	-4.9	21.9	22.5	21.1	1.35	16.611		
500.0	500.0	500.9	500.7	0.8	0.9	110.13	-6.5	17.8	19.0	17.3	1.70	11.151		
600.0	600.0	600.9	600.6	1.0	1.1	125.88	-8.8	12.1	15.0	12.9	2.07	7.248		
700.0	700.0	700.7	700.0	1.2	1.3	157.44	-11.7	4.8	12.6	10.1	2.47	5.101		
702.7	702.7	703.3	702.7	1.2	1.3	158.49	-11.7	4.6	12.6	10.1	2.49	5.076	CC, ES, SF	
800.0	800.0	800.1	799.0	1.4	1.5	-165.10	-15.2	-4.0	15.7	12.8	2.88	5.460		
900.0	900.0	899.2	897.5	1.5	1.8	-143.10	-19.3	-14.5	24.2	21.0	3.23	7.502		
1,000.0	1,000.0	997.9	995.3	1.7	2.0	-132.22	-24.0	-26.4	36.0	32.4	3.58	10.060		
1,100.0	1,100.0	1,096.1	1,092.5	1.9	2.3	-126.29	-29.3	-39.9	50.0	46.1	3.93	12.727		
1,200.0	1,200.0	1,193.8	1,188.8	2.1	2.6	-122.69	-35.2	-54.8	66.1	61.8	4.29	15.388		
1,300.0	1,300.0	1,290.9	1,284.3	2.2	3.0	-120.32	-41.6	-71.1	83.9	79.2	4.66	18.008		
1,400.0	1,400.0	1,387.4	1,378.9	2.4	3.4	-118.67	-48.6	-88.9	103.5	98.4	5.03	20.577		
1,500.0	1,500.0	1,483.1	1,472.4	2.6	3.7	-117.47	-56.1	-107.9	124.7	119.3	5.40	23.092		
1,600.0	1,600.0	1,578.2	1,565.0	2.8	4.2	-116.56	-64.1	-128.3	147.6	141.9	5.78	25.553		
1,700.0	1,700.0	1,673.6	1,657.4	2.9	4.6	-115.85	-72.7	-150.0	172.1	165.9	6.16	27.944		
1,800.0	1,800.0	1,770.5	1,751.3	3.1	5.0	-115.31	-81.5	-172.4	196.8	190.3	6.54	30.083		
1,900.0	1,900.0	1,867.4	1,845.2	3.3	5.5	-114.88	-90.3	-194.7	221.6	214.6	6.93	31.983		
2,000.0	2,000.0	1,964.2	1,939.0	3.5	5.9	-114.54	-99.1	-217.1	246.3	239.0	7.31	33.680		
2,100.0	2,100.0	2,061.1	2,032.9	3.6	6.4	-114.27	-107.9	-239.4	271.1	263.4	7.70	35.204		
2,200.0	2,200.0	2,158.0	2,126.7	3.8	6.8	-114.03	-116.7	-261.8	295.9	287.8	8.09	36.580		
2,300.0	2,300.0	2,254.9	2,220.6	4.0	7.3	-113.84	-125.6	-284.1	320.6	312.2	8.48	37.830		
2,400.0	2,400.0	2,351.7	2,314.4	4.2	7.7	-113.67	-134.4	-306.5	345.4	336.5	8.86	38.968		
2,500.0	2,500.0	2,448.6	2,408.3	4.3	8.2	-113.53	-143.2	-328.8	370.2	360.9	9.25	40.009		
2,600.0	2,600.0	2,545.5	2,502.1	4.5	8.6	-113.40	-152.0	-351.2	395.0	385.3	9.64	40.966		
2,700.0	2,700.0	2,642.4	2,596.0	4.7	9.1	-113.29	-160.8	-373.5	419.8	409.7	10.03	41.847		
2,800.0	2,800.0	2,739.3	2,689.8	4.9	9.5	-113.19	-169.6	-395.9	444.5	434.1	10.42	42.662		
2,900.0	2,900.0	2,836.1	2,783.7	5.0	10.0	-113.10	-178.4	-418.2	469.3	458.5	10.81	43.418		
3,000.0	3,000.0	2,933.0	2,877.5	5.2	10.5	-113.02	-187.2	-440.6	494.1	482.9	11.20	44.120		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3J-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	89.98	0.0	30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	89.98	0.0	30.8	30.8	30.5	0.30	101.338		
200.0	200.0	200.0	200.0	0.3	0.3	89.98	0.0	30.8	30.8	30.1	0.65	47.147		
300.0	300.0	300.2	300.2	0.5	0.5	90.17	-0.1	30.6	30.6	29.6	1.00	30.511		
400.0	400.0	400.7	400.7	0.7	0.7	91.75	-0.9	29.0	29.0	27.7	1.35	21.468		
500.0	500.0	501.0	501.0	0.8	0.9	95.46	-2.5	25.9	26.0	24.3	1.70	15.276		
600.0	600.0	601.2	601.0	1.0	1.1	102.91	-4.9	21.2	21.7	19.7	2.05	10.583		
700.0	700.0	701.2	700.8	1.2	1.3	118.21	-8.0	14.9	17.0	14.5	2.42	7.007		
800.0	800.0	800.9	800.1	1.4	1.5	149.06	-11.9	7.2	13.9	11.1	2.84	4.908		
810.3	810.3	811.2	810.3	1.4	1.5	153.16	-12.4	6.3	13.9	11.0	2.88	4.816 CC, ES, SF		
900.0	900.0	900.3	898.9	1.5	1.7	-172.74	-16.6	-2.1	16.8	13.6	3.25	5.165		
1,000.0	1,000.0	999.3	997.2	1.7	2.0	-149.74	-22.1	-12.9	25.7	22.1	3.60	7.136		
1,100.0	1,100.0	1,097.9	1,094.8	1.9	2.3	-138.40	-28.3	-25.1	38.2	34.2	3.95	9.661		
1,200.0	1,200.0	1,195.9	1,191.6	2.1	2.6	-132.23	-35.2	-38.7	53.0	48.7	4.30	12.312		
1,300.0	1,300.0	1,293.4	1,287.6	2.2	2.9	-128.50	-42.8	-53.8	69.8	65.1	4.66	14.967		
1,400.0	1,400.0	1,390.2	1,382.7	2.4	3.2	-126.05	-51.1	-70.1	88.4	83.4	5.03	17.586		
1,500.0	1,500.0	1,487.0	1,477.4	2.6	3.6	-124.34	-60.0	-87.8	108.8	103.4	5.40	20.147		
1,600.0	1,600.0	1,584.8	1,573.1	2.8	4.0	-123.13	-69.3	-106.1	129.5	123.8	5.77	22.445		
1,700.0	1,700.0	1,682.6	1,668.7	2.9	4.4	-122.26	-78.5	-124.3	150.3	144.2	6.15	24.465		
1,800.0	1,800.0	1,780.4	1,764.3	3.1	4.7	-121.60	-87.7	-142.6	171.2	164.7	6.52	26.253		
1,900.0	1,900.0	1,878.2	1,859.9	3.3	5.1	-121.08	-97.0	-160.9	192.0	185.1	6.90	27.846		
2,000.0	2,000.0	1,975.9	1,955.6	3.5	5.5	-120.66	-106.2	-179.1	212.9	205.6	7.27	29.273		
2,100.0	2,100.0	2,073.7	2,051.2	3.6	5.9	-120.32	-115.4	-197.4	233.8	226.1	7.65	30.559		
2,200.0	2,200.0	2,171.5	2,146.8	3.8	6.3	-120.04	-124.7	-215.6	254.7	246.6	8.03	31.723		
2,300.0	2,300.0	2,269.3	2,242.4	4.0	6.7	-119.79	-133.9	-233.9	275.6	267.2	8.41	32.783		
2,400.0	2,400.0	2,367.1	2,338.1	4.2	7.1	-119.59	-143.1	-252.1	296.5	287.7	8.78	33.750		
2,500.0	2,500.0	2,464.9	2,433.7	4.3	7.5	-119.41	-152.4	-270.4	317.3	308.2	9.16	34.637		
2,600.0	2,600.0	2,562.7	2,529.3	4.5	7.9	-119.25	-161.6	-288.6	338.2	328.7	9.54	35.453		
2,700.0	2,700.0	2,660.5	2,624.9	4.7	8.3	-119.11	-170.8	-306.9	359.1	349.2	9.92	36.207		
2,800.0	2,800.0	2,758.2	2,720.6	4.9	8.7	-118.98	-180.1	-325.1	380.1	369.8	10.30	36.905		
2,900.0	2,900.0	2,856.0	2,816.2	5.0	9.1	-118.87	-189.3	-343.4	401.0	390.3	10.68	37.553		
3,000.0	3,000.0	2,953.8	2,911.8	5.2	9.5	-118.77	-198.5	-361.6	421.9	410.8	11.06	38.156		
3,100.0	3,100.0	3,051.6	3,007.4	5.4	9.9	-118.68	-207.8	-379.9	442.8	431.3	11.44	38.719		
3,200.0	3,200.0	3,149.4	3,103.1	5.6	10.3	-118.60	-217.0	-398.1	463.7	451.9	11.81	39.245		
3,300.0	3,300.0	3,247.2	3,198.7	5.7	10.7	-118.52	-226.3	-416.4	484.6	472.4	12.19	39.739		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	95.71	-3.6	36.4	36.6					
100.0	100.0	100.0	100.0	0.2	0.2	95.71	-3.6	36.4	36.6	36.2	0.30	120.360		
200.0	200.0	200.0	200.0	0.3	0.3	95.71	-3.6	36.4	36.6	35.9	0.65	55.996		
300.0	300.0	300.0	300.0	0.5	0.5	95.71	-3.6	36.4	36.6	35.5	1.00	36.485		
400.0	400.0	400.2	400.2	0.7	0.7	95.93	-3.8	36.2	36.4	35.0	1.35	26.926		
500.0	500.0	500.7	500.7	0.8	0.9	97.81	-4.8	34.7	35.1	33.4	1.70	20.616		
600.0	600.0	601.1	601.0	1.0	1.0	102.01	-6.8	31.9	32.6	30.5	2.05	15.875		
700.0	700.0	701.3	701.0	1.2	1.2	109.57	-9.8	27.5	29.2	26.8	2.41	12.145		
800.0	800.0	801.3	800.8	1.4	1.4	122.32	-13.8	21.8	25.8	23.0	2.78	9.291		
900.0	900.0	901.0	900.1	1.5	1.6	142.02	-18.8	14.7	23.8	20.6	3.18	7.494		
913.3	913.3	914.2	913.3	1.6	1.7	145.12	-19.5	13.6	23.8	20.5	3.23	7.353 CC, ES		
1,000.0	1,000.0	1,000.4	999.0	1.7	1.9	166.09	-24.7	6.1	25.5	21.9	3.60	7.084 SF		
1,100.0	1,100.0	1,099.3	1,097.2	1.9	2.1	-173.20	-31.6	-3.8	32.0	28.0	3.99	8.006		
1,200.0	1,200.0	1,197.9	1,194.8	2.1	2.4	-159.17	-39.4	-15.0	42.5	38.2	4.36	9.754		
1,300.0	1,300.0	1,296.2	1,291.9	2.2	2.7	-150.26	-48.2	-27.5	56.1	51.3	4.72	11.885		
1,400.0	1,400.0	1,394.9	1,389.4	2.4	3.0	-144.73	-57.2	-40.4	70.8	65.8	5.08	13.956		
1,500.0	1,500.0	1,493.6	1,486.8	2.6	3.3	-141.12	-66.2	-53.4	86.0	80.6	5.44	15.827		
1,600.0	1,600.0	1,592.3	1,584.3	2.8	3.6	-138.60	-75.2	-66.3	101.4	95.6	5.80	17.500		
1,700.0	1,700.0	1,691.1	1,681.7	2.9	3.9	-136.75	-84.2	-79.2	117.0	110.8	6.16	18.996		
1,800.0	1,800.0	1,789.8	1,779.2	3.1	4.2	-135.33	-93.2	-92.1	132.7	126.1	6.52	20.336		
1,900.0	1,900.0	1,888.5	1,876.6	3.3	4.6	-134.22	-102.2	-105.0	148.4	141.5	6.89	21.542		
2,000.0	2,000.0	1,987.2	1,974.1	3.5	4.9	-133.31	-111.2	-117.9	164.1	156.9	7.25	22.630		
2,100.0	2,100.0	2,085.9	2,071.6	3.6	5.2	-132.57	-120.2	-130.9	179.9	172.3	7.62	23.618		
2,200.0	2,200.0	2,184.7	2,169.0	3.8	5.5	-131.94	-129.2	-143.8	195.8	187.8	7.98	24.517		
2,300.0	2,300.0	2,283.4	2,266.5	4.0	5.8	-131.41	-138.2	-156.7	211.6	203.3	8.35	25.338		
2,400.0	2,400.0	2,382.1	2,363.9	4.2	6.1	-130.96	-147.2	-169.6	227.5	218.7	8.72	26.092		
2,500.0	2,500.0	2,480.8	2,461.4	4.3	6.5	-130.56	-156.2	-182.5	243.3	234.2	9.08	26.786		
2,600.0	2,600.0	2,579.5	2,558.8	4.5	6.8	-130.21	-165.2	-195.4	259.2	249.8	9.45	27.426		
2,700.0	2,700.0	2,678.3	2,656.3	4.7	7.1	-129.90	-174.2	-208.4	275.1	265.3	9.82	28.020		
2,800.0	2,800.0	2,777.0	2,753.7	4.9	7.4	-129.63	-183.2	-221.3	291.0	280.8	10.18	28.570		
2,900.0	2,900.0	2,875.7	2,851.2	5.0	7.8	-129.38	-192.2	-234.2	306.9	296.3	10.55	29.083		
3,000.0	3,000.0	2,974.4	2,948.7	5.2	8.1	-129.16	-201.2	-247.1	322.8	311.9	10.92	29.562		
3,100.0	3,100.0	3,073.1	3,046.1	5.4	8.4	-128.96	-210.2	-260.0	338.7	327.4	11.29	30.009		
3,200.0	3,200.0	3,171.9	3,143.6	5.6	8.7	-128.77	-219.2	-272.9	354.6	343.0	11.65	30.429		
3,300.0	3,300.0	3,270.6	3,241.0	5.7	9.0	-128.61	-228.2	-285.9	370.5	358.5	12.02	30.823		
3,400.0	3,400.0	3,369.3	3,338.5	5.9	9.4	-128.45	-237.2	-298.8	386.4	374.0	12.39	31.194		
3,500.0	3,500.0	3,468.0	3,435.9	6.1	9.7	-128.31	-246.2	-311.7	402.4	389.6	12.76	31.543		
3,600.0	3,600.0	3,566.7	3,533.4	6.3	10.0	-128.18	-255.3	-324.6	418.3	405.2	13.12	31.873		
3,700.0	3,700.0	3,665.5	3,630.9	6.4	10.3	-128.06	-264.3	-337.5	434.2	420.7	13.49	32.185		
3,800.0	3,800.0	3,764.2	3,728.3	6.6	10.7	-127.95	-273.3	-350.4	450.1	436.3	13.86	32.481		
3,900.0	3,900.0	3,862.9	3,825.8	6.8	11.0	-127.84	-282.3	-363.4	466.1	451.8	14.23	32.761		
4,000.0	4,000.0	3,961.6	3,923.2	7.0	11.3	-127.74	-291.3	-376.3	482.0	467.4	14.59	33.027		
4,100.0	4,100.0	4,060.2	4,020.6	7.1	11.6	-146.50	-300.3	-389.2	498.6	484.5	14.18	35.172		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3L-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	89.99	0.0	39.2	39.2					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	39.2	39.2	38.9	0.30	128.976		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	39.2	39.2	38.5	0.65	60.005		
300.0	300.0	300.0	300.0	0.5	0.5	89.99	0.0	39.2	39.2	38.2	1.00	39.097		
400.0	400.0	400.0	400.0	0.7	0.7	89.99	0.0	39.2	39.2	37.8	1.35	28.995		
500.0	500.0	500.4	500.4	0.8	0.9	90.97	-0.7	38.6	38.6	36.9	1.70	22.691		
600.0	600.0	600.8	600.8	1.0	1.0	94.09	-2.6	36.8	36.9	34.9	2.05	18.008		
700.0	700.0	701.1	700.9	1.2	1.2	99.91	-5.9	33.9	34.5	32.1	2.41	14.331		
800.0	800.0	801.2	800.8	1.4	1.4	109.41	-10.5	29.9	31.7	28.9	2.77	11.456		
900.0	900.0	901.0	900.3	1.5	1.6	123.62	-16.4	24.7	29.7	26.5	3.15	9.422		
943.7	943.7	944.5	943.7	1.6	1.7	131.29	-19.4	22.1	29.4	26.1	3.33	8.840 CC, ES		
1,000.0	1,000.0	1,000.5	999.4	1.7	1.8	142.04	-23.6	18.4	30.0	26.4	3.56	8.416 SF		
1,100.0	1,100.0	1,099.7	1,097.9	1.9	2.1	161.04	-32.1	11.0	34.0	30.0	3.97	8.552		
1,200.0	1,200.0	1,198.8	1,196.3	2.1	2.3	176.12	-41.4	2.8	41.7	37.3	4.35	9.565		
1,300.0	1,300.0	1,298.0	1,294.7	2.2	2.6	-173.90	-50.8	-5.4	51.3	46.6	4.72	10.876		
1,400.0	1,400.0	1,397.2	1,393.1	2.4	2.8	-167.20	-60.2	-13.7	62.1	57.0	5.08	12.221		
1,500.0	1,500.0	1,496.4	1,491.5	2.6	3.1	-162.51	-69.5	-21.9	73.4	68.0	5.44	13.501		
1,600.0	1,600.0	1,595.6	1,590.0	2.8	3.4	-159.09	-78.9	-30.1	85.1	79.3	5.79	14.686		
1,700.0	1,700.0	1,694.8	1,688.4	2.9	3.6	-156.50	-88.3	-38.4	97.0	90.8	6.15	15.768		
1,800.0	1,800.0	1,794.0	1,786.8	3.1	3.9	-154.48	-97.7	-46.6	109.0	102.5	6.51	16.754		
1,900.0	1,900.0	1,893.2	1,885.2	3.3	4.2	-152.87	-107.1	-54.9	121.2	114.3	6.87	17.652		
2,000.0	2,000.0	1,992.4	1,983.6	3.5	4.5	-151.54	-116.4	-63.1	133.4	126.2	7.22	18.471		
2,100.0	2,100.0	2,091.7	2,082.0	3.6	4.7	-150.45	-125.8	-71.3	145.8	138.2	7.58	19.219		
2,200.0	2,200.0	2,190.9	2,180.4	3.8	5.0	-149.52	-135.2	-79.6	158.1	150.2	7.94	19.904		
2,300.0	2,300.0	2,290.1	2,278.9	4.0	5.3	-148.72	-144.6	-87.8	170.5	162.2	8.30	20.534		
2,400.0	2,400.0	2,389.3	2,377.3	4.2	5.6	-148.04	-154.0	-96.1	182.9	174.2	8.66	21.114		
2,500.0	2,500.0	2,488.5	2,475.7	4.3	5.8	-147.44	-163.3	-104.3	195.3	186.3	9.02	21.650		
2,600.0	2,600.0	2,587.7	2,574.1	4.5	6.1	-146.91	-172.7	-112.5	207.8	198.4	9.38	22.147		
2,700.0	2,700.0	2,686.9	2,672.5	4.7	6.4	-146.45	-182.1	-120.8	220.2	210.5	9.74	22.608		
2,800.0	2,800.0	2,786.1	2,770.9	4.9	6.7	-146.03	-191.5	-129.0	232.7	222.6	10.10	23.037		
2,900.0	2,900.0	2,885.3	2,869.4	5.0	6.9	-145.65	-200.9	-137.3	245.2	234.7	10.46	23.438		
3,000.0	3,000.0	2,984.5	2,967.8	5.2	7.2	-145.32	-210.3	-145.5	257.7	246.9	10.82	23.812		
3,100.0	3,100.0	3,083.7	3,066.2	5.4	7.5	-145.01	-219.6	-153.7	270.2	259.0	11.18	24.163		
3,200.0	3,200.0	3,182.9	3,164.6	5.6	7.8	-144.73	-229.0	-162.0	282.7	271.2	11.54	24.493		
3,300.0	3,300.0	3,282.1	3,263.0	5.7	8.0	-144.47	-238.4	-170.2	295.2	283.3	11.90	24.803		
3,400.0	3,400.0	3,381.3	3,361.4	5.9	8.3	-144.24	-247.8	-178.5	307.8	295.5	12.26	25.095		
3,500.0	3,500.0	3,480.5	3,459.9	6.1	8.6	-144.02	-257.2	-186.7	320.3	307.7	12.62	25.371		
3,600.0	3,600.0	3,579.7	3,558.3	6.3	8.9	-143.82	-266.5	-194.9	332.8	319.9	12.99	25.632		
3,700.0	3,700.0	3,678.9	3,656.7	6.4	9.1	-143.63	-275.9	-203.2	345.4	332.0	13.35	25.879		
3,800.0	3,800.0	3,778.1	3,755.1	6.6	9.4	-143.46	-285.3	-211.4	357.9	344.2	13.71	26.113		
3,900.0	3,900.0	3,877.3	3,853.5	6.8	9.7	-143.30	-294.7	-219.6	370.5	356.4	14.07	26.335		
4,000.0	4,000.0	3,976.5	3,951.9	7.0	10.0	-143.15	-304.1	-227.9	383.0	368.6	14.43	26.546		
4,100.0	4,100.0	4,075.6	4,050.2	7.1	10.3	-161.89	-313.4	-236.1	396.4	382.2	14.22	27.873		
4,200.0	4,200.0	4,174.5	4,148.3	7.3	10.5	-161.82	-322.8	-244.3	411.4	396.8	14.56	28.265		
4,300.0	4,299.9	4,273.2	4,246.3	7.5	10.8	-161.84	-332.1	-252.5	427.3	412.4	14.90	28.673		
4,400.0	4,399.8	4,372.0	4,344.2	7.7	11.1	-161.86	-341.5	-260.7	443.2	427.9	15.25	29.062		
4,500.0	4,499.8	4,470.7	4,442.2	7.8	11.4	-161.88	-350.8	-268.9	459.0	443.4	15.60	29.433		
4,600.0	4,599.7	4,569.4	4,540.1	8.0	11.6	-161.90	-360.1	-277.1	474.9	459.0	15.94	29.789		
4,700.0	4,699.6	4,668.2	4,638.1	8.2	11.9	-161.92	-369.5	-285.3	490.8	474.5	16.29	30.129		

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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3M-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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	93.72	-3.6	56.0	56.1					
100.0	100.0	100.0	100.0	0.2	0.2	93.72	-3.6	56.0	56.1	55.8	0.30	184.639		
200.0	200.0	200.0	200.0	0.3	0.3	93.72	-3.6	56.0	56.1	55.4	0.65	85.902		
202.9	202.9	202.9	202.9	0.3	0.3	93.72	-3.6	56.0	56.1	55.4	0.66	84.594		
300.0	300.0	300.3	300.3	0.5	0.5	94.58	-4.5	55.7	55.8	54.8	1.00	55.679		
400.0	400.0	400.5	400.4	0.7	0.7	97.22	-6.9	54.8	55.2	53.9	1.36	40.721		
500.0	500.0	500.5	500.4	0.8	0.9	101.72	-11.1	53.3	54.5	52.8	1.72	31.732		
600.0	600.0	600.4	600.1	1.0	1.1	108.16	-16.8	51.3	54.0	51.9	2.09	25.844		
617.0	617.0	617.4	617.0	1.1	1.1	109.44	-18.0	50.9	54.0	51.8	2.15	25.047	CC, ES	
700.0	700.0	700.1	699.4	1.2	1.3	116.42	-24.2	48.7	54.4	51.9	2.48	21.938		
800.0	800.0	799.6	798.5	1.4	1.5	125.70	-32.8	45.7	56.2	53.4	2.88	19.537		
900.0	900.0	899.2	897.7	1.5	1.7	134.26	-41.5	42.6	59.5	56.2	3.28	18.156		
1,000.0	1,000.0	998.7	996.8	1.7	2.0	141.79	-50.2	39.5	64.0	60.3	3.67	17.426		
1,100.0	1,100.0	1,098.3	1,096.0	1.9	2.2	148.24	-58.9	36.5	69.4	65.3	4.06	17.106		
1,200.0	1,200.0	1,197.9	1,195.1	2.1	2.4	153.71	-67.6	33.4	75.5	71.1	4.43	17.040		
1,300.0	1,300.0	1,297.4	1,294.3	2.2	2.7	158.33	-76.3	30.3	82.3	77.5	4.80	17.127		
1,400.0	1,400.0	1,397.0	1,393.4	2.4	2.9	162.22	-85.0	27.2	89.5	84.3	5.17	17.305		
1,500.0	1,500.0	1,496.6	1,492.5	2.6	3.1	165.53	-93.7	24.2	97.0	91.5	5.53	17.533		
1,600.0	1,600.0	1,596.2	1,591.7	2.8	3.4	168.35	-102.4	21.1	104.8	98.9	5.89	17.788		
1,700.0	1,700.0	1,695.7	1,690.8	2.9	3.6	170.77	-111.0	18.0	112.9	106.6	6.25	18.053		
1,800.0	1,800.0	1,795.3	1,790.0	3.1	3.8	172.87	-119.7	15.0	121.1	114.5	6.61	18.319		
1,900.0	1,900.0	1,894.9	1,889.1	3.3	4.1	174.70	-128.4	11.9	129.4	122.5	6.97	18.580		
2,000.0	2,000.0	1,994.4	1,988.3	3.5	4.3	176.31	-137.1	8.8	137.9	130.6	7.32	18.834		
2,100.0	2,100.0	2,094.0	2,087.4	3.6	4.5	177.74	-145.8	5.8	146.5	138.8	7.68	19.077		
2,200.0	2,200.0	2,193.6	2,186.5	3.8	4.8	179.00	-154.5	2.7	155.1	147.1	8.03	19.310		
2,300.0	2,300.0	2,293.1	2,285.7	4.0	5.0	-179.87	-163.2	-0.4	163.8	155.4	8.39	19.531		
2,400.0	2,400.0	2,392.7	2,384.8	4.2	5.2	-178.85	-171.9	-3.4	172.6	163.9	8.74	19.741		
2,500.0	2,500.0	2,492.3	2,484.0	4.3	5.5	-177.94	-180.6	-6.5	181.4	172.3	9.10	19.940		
2,600.0	2,600.0	2,591.9	2,583.1	4.5	5.7	-177.10	-189.3	-9.6	190.3	180.8	9.45	20.129		
2,700.0	2,700.0	2,691.4	2,682.2	4.7	5.9	-176.35	-198.0	-12.6	199.2	189.4	9.81	20.308		
2,800.0	2,800.0	2,791.0	2,781.4	4.9	6.2	-175.65	-206.7	-15.7	208.1	197.9	10.16	20.478		
2,900.0	2,900.0	2,890.6	2,880.5	5.0	6.4	-175.02	-215.4	-18.8	217.1	206.5	10.52	20.639		
3,000.0	3,000.0	2,990.1	2,979.7	5.2	6.7	-174.43	-224.1	-21.9	226.0	215.2	10.87	20.791		
3,100.0	3,100.0	3,089.7	3,078.8	5.4	6.9	-173.89	-232.7	-24.9	235.0	223.8	11.23	20.936		
3,200.0	3,200.0	3,189.3	3,178.0	5.6	7.1	-173.39	-241.4	-28.0	244.1	232.5	11.58	21.074		
3,300.0	3,300.0	3,288.9	3,277.1	5.7	7.4	-172.92	-250.1	-31.1	253.1	241.2	11.94	21.204		
3,400.0	3,400.0	3,388.4	3,376.2	5.9	7.6	-172.49	-258.8	-34.1	262.1	249.9	12.29	21.329		
3,500.0	3,500.0	3,488.0	3,475.4	6.1	7.8	-172.08	-267.5	-37.2	271.2	258.6	12.65	21.447		
3,600.0	3,600.0	3,587.6	3,574.5	6.3	8.1	-171.71	-276.2	-40.3	280.3	267.3	13.00	21.560		
3,700.0	3,700.0	3,687.1	3,673.7	6.4	8.3	-171.35	-284.9	-43.3	289.4	276.0	13.36	21.668		
3,800.0	3,800.0	3,786.7	3,772.8	6.6	8.5	-171.02	-293.6	-46.4	298.5	284.8	13.71	21.771		
3,900.0	3,900.0	3,886.3	3,872.0	6.8	8.8	-170.71	-302.3	-49.5	307.6	293.5	14.06	21.869		
4,000.0	4,000.0	3,985.8	3,971.1	7.0	9.0	-170.41	-311.0	-52.5	316.7	302.3	14.42	21.964		
4,100.0	4,100.0	4,085.3	4,070.2	7.1	9.3	170.99	-319.7	-55.6	326.7	312.4	14.29	22.860		
4,200.0	4,200.0	4,184.6	4,169.0	7.3	9.5	171.30	-328.3	-58.7	338.4	323.8	14.63	23.139		
4,300.0	4,299.9	4,283.8	4,267.8	7.5	9.7	171.63	-337.0	-61.7	351.0	336.1	14.97	23.450		
4,400.0	4,399.8	4,383.0	4,366.5	7.7	10.0	171.94	-345.7	-64.8	363.7	348.3	15.31	23.748		
4,500.0	4,499.8	4,482.2	4,465.3	7.8	10.2	172.23	-354.3	-67.8	376.3	360.6	15.66	24.032		
4,600.0	4,599.7	4,581.3	4,564.0	8.0	10.4	172.49	-363.0	-70.9	388.9	372.9	16.00	24.305		
4,700.0	4,699.6	4,680.5	4,662.8	8.2	10.7	172.75	-371.6	-73.9	401.6	385.3	16.35	24.566		
4,800.0	4,799.6	4,779.7	4,761.6	8.4	10.9	172.98	-380.3	-77.0	414.3	397.6	16.69	24.817		
4,900.0	4,899.5	4,878.9	4,860.3	8.5	11.1	173.20	-389.0	-80.1	426.9	409.9	17.04	25.058		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3M-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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		
5,000.0	4,999.5	4,978.1	4,959.1	8.7	11.4	173.41	-397.6	-83.1	439.6	422.2	17.38	25.290		
5,100.0	5,099.4	5,077.3	5,057.8	8.9	11.6	173.61	-406.3	-86.2	452.3	434.6	17.73	25.512		
5,200.0	5,199.3	5,176.4	5,156.6	9.1	11.8	173.79	-414.9	-89.2	465.0	446.9	18.07	25.726		
5,300.0	5,299.3	5,275.6	5,255.3	9.3	12.1	173.97	-423.6	-92.3	477.7	459.3	18.42	25.933		
5,400.0	5,399.2	5,374.8	5,354.1	9.4	12.3	174.14	-432.2	-95.3	490.4	471.6	18.77	26.132		
7,200.0	7,195.9	8,039.7	7,606.0	12.6	14.6	122.13	74.2	-165.0	456.6	430.2	26.42	17.279		
7,300.0	7,288.8	8,003.1	7,606.0	12.7	14.5	126.12	37.6	-165.0	376.1	350.0	26.07	14.425		
7,400.0	7,374.0	7,943.6	7,605.7	12.9	14.4	123.74	-21.9	-165.0	308.6	282.8	25.82	11.949		
7,500.0	7,448.7	7,855.4	7,596.3	13.2	14.3	113.69	-109.5	-164.7	254.0	227.7	26.25	9.675		
7,600.0	7,510.9	7,779.6	7,577.5	13.6	14.4	102.12	-182.9	-164.2	217.4	190.2	27.19	7.996		
7,690.8	7,554.8	7,717.0	7,554.8	14.2	14.5	90.00	-241.2	-163.5	206.1	178.0	28.12	7.330		
7,700.0	7,558.5	7,710.8	7,552.2	14.2	14.5	88.70	-246.7	-163.4	206.2	178.0	28.18	7.318 SF		
7,800.0	7,590.2	7,646.4	7,521.8	15.0	14.7	74.49	-303.5	-162.4	220.7	192.2	28.48	7.749		
7,900.0	7,604.9	7,584.9	7,486.9	16.0	14.9	61.30	-354.1	-161.4	252.8	225.0	27.85	9.078		
8,000.0	7,606.0	7,527.0	7,449.3	17.1	15.2	52.59	-398.1	-160.2	295.3	268.1	27.21	10.852		
8,100.0	7,606.0	7,478.1	7,414.2	18.3	15.4	46.77	-432.2	-159.1	349.9	323.1	26.81	13.050		
8,200.0	7,606.0	7,437.0	7,382.6	19.6	15.5	42.30	-458.4	-158.1	414.3	387.8	26.52	15.620		
8,300.0	7,606.0	7,400.0	7,352.6	20.9	15.7	38.63	-480.0	-157.2	486.1	459.7	26.30	18.478		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3N-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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	89.99	0.0	58.8	58.8					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	58.8	58.8	58.4	0.30	193.464		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	58.8	58.8	58.1	0.65	90.007		
300.0	300.0	300.0	300.0	0.5	0.5	89.99	0.0	58.8	58.8	57.8	1.00	58.646	CC	
400.0	400.0	399.8	399.8	0.7	0.7	90.82	-0.8	58.9	58.9	57.6	1.35	43.613	ES	
500.0	500.0	499.5	499.5	0.8	0.9	93.27	-3.4	59.4	59.5	57.8	1.70	34.939		
600.0	600.0	599.1	599.0	1.0	1.0	97.23	-7.6	60.3	60.8	58.7	2.06	29.452		
700.0	700.0	698.6	698.2	1.2	1.2	102.46	-13.6	61.5	63.0	60.5	2.43	25.885		
800.0	800.0	797.7	797.1	1.4	1.4	108.58	-21.2	63.0	66.5	63.7	2.81	23.642		
900.0	900.0	897.1	896.0	1.5	1.7	114.97	-30.2	64.8	71.6	68.4	3.20	22.377		
1,000.0	1,000.0	996.6	995.1	1.7	1.9	120.55	-39.3	66.6	77.5	73.9	3.58	21.636		
1,100.0	1,100.0	1,096.2	1,094.3	1.9	2.1	125.30	-48.5	68.5	84.1	80.1	3.96	21.216		
1,200.0	1,200.0	1,195.7	1,193.4	2.1	2.3	129.34	-57.6	70.3	91.1	86.8	4.34	21.003		
1,300.0	1,300.0	1,295.3	1,292.5	2.2	2.6	132.79	-66.8	72.1	98.6	93.9	4.71	20.922		
1,400.0	1,400.0	1,394.9	1,391.6	2.4	2.8	135.75	-75.9	74.0	106.3	101.2	5.08	20.925		
1,500.0	1,500.0	1,494.4	1,490.7	2.6	3.0	138.30	-85.1	75.8	114.3	108.9	5.45	20.983		
1,600.0	1,600.0	1,594.0	1,589.9	2.8	3.3	140.52	-94.2	77.6	122.5	116.7	5.81	21.074		
1,700.0	1,700.0	1,693.5	1,689.0	2.9	3.5	142.45	-103.4	79.5	130.9	124.7	6.18	21.186		
1,800.0	1,800.0	1,793.1	1,788.1	3.1	3.7	144.16	-112.5	81.3	139.3	132.8	6.54	21.310		
1,900.0	1,900.0	1,892.7	1,887.2	3.3	4.0	145.66	-121.7	83.1	147.9	141.0	6.90	21.440		
2,000.0	2,000.0	1,992.2	1,986.4	3.5	4.2	147.00	-130.8	85.0	156.6	149.3	7.26	21.572		
2,100.0	2,100.0	2,091.8	2,085.5	3.6	4.4	148.20	-140.0	86.8	165.3	157.7	7.62	21.704		
2,200.0	2,200.0	2,191.3	2,184.6	3.8	4.7	149.28	-149.1	88.6	174.2	166.2	7.98	21.833		
2,300.0	2,300.0	2,290.9	2,283.7	4.0	4.9	150.25	-158.3	90.5	183.0	174.7	8.34	21.959		
2,400.0	2,400.0	2,390.5	2,382.8	4.2	5.2	151.14	-167.4	92.3	192.0	183.3	8.69	22.081		
2,500.0	2,500.0	2,490.0	2,482.0	4.3	5.4	151.94	-176.6	94.1	200.9	191.9	9.05	22.199		
2,600.0	2,600.0	2,589.6	2,581.1	4.5	5.6	152.68	-185.7	95.9	209.9	200.5	9.41	22.312		
2,700.0	2,700.0	2,689.1	2,680.2	4.7	5.9	153.36	-194.9	97.8	218.9	209.2	9.77	22.421		
2,800.0	2,800.0	2,788.7	2,779.3	4.9	6.1	153.98	-204.0	99.6	228.0	217.9	10.12	22.525		
2,900.0	2,900.0	2,888.3	2,878.4	5.0	6.3	154.55	-213.2	101.4	237.1	226.6	10.48	22.625		
3,000.0	3,000.0	2,987.8	2,977.6	5.2	6.6	155.09	-222.3	103.3	246.2	235.4	10.84	22.720		
3,100.0	3,100.0	3,087.4	3,076.7	5.4	6.8	155.58	-231.5	105.1	255.3	244.1	11.19	22.812		
3,200.0	3,200.0	3,186.9	3,175.8	5.6	7.1	156.04	-240.6	106.9	264.5	252.9	11.55	22.899		
3,300.0	3,300.0	3,286.5	3,274.9	5.7	7.3	156.47	-249.8	108.8	273.6	261.7	11.90	22.983		
3,400.0	3,400.0	3,386.1	3,374.0	5.9	7.5	156.87	-259.0	110.6	282.8	270.5	12.26	23.063		
3,500.0	3,500.0	3,485.6	3,473.2	6.1	7.8	157.25	-268.1	112.4	292.0	279.3	12.62	23.140		
3,600.0	3,600.0	3,585.2	3,572.3	6.3	8.0	157.60	-277.3	114.3	301.2	288.2	12.97	23.213		
3,700.0	3,700.0	3,684.7	3,671.4	6.4	8.2	157.93	-286.4	116.1	310.4	297.0	13.33	23.284		
3,800.0	3,800.0	3,784.3	3,770.5	6.6	8.5	158.25	-295.6	117.9	319.6	305.9	13.69	23.351		
3,900.0	3,900.0	3,883.9	3,869.7	6.8	8.7	158.54	-304.7	119.8	328.8	314.8	14.04	23.416		
4,000.0	4,000.0	3,983.4	3,968.8	7.0	9.0	158.82	-313.9	121.6	338.0	323.6	14.40	23.478		
4,100.0	4,100.0	4,082.9	4,067.8	7.1	9.2	140.23	-323.0	123.4	347.9	333.7	14.29	24.354		
4,200.0	4,200.0	4,182.2	4,166.7	7.3	9.4	140.67	-332.1	125.3	359.2	344.6	14.62	24.565		
4,300.0	4,299.9	4,281.4	4,265.5	7.5	9.7	141.24	-341.3	127.1	371.2	356.2	14.96	24.806		
4,400.0	4,399.8	4,380.6	4,364.2	7.7	9.9	141.78	-350.4	128.9	383.2	367.9	15.31	25.038		
4,500.0	4,499.8	4,479.8	4,463.0	7.8	10.1	142.29	-359.5	130.7	395.3	379.7	15.65	25.261		
4,600.0	4,599.7	4,579.1	4,561.8	8.0	10.4	142.76	-368.6	132.6	407.4	391.4	15.99	25.475		
4,700.0	4,699.6	4,678.3	4,660.6	8.2	10.6	143.21	-377.7	134.4	419.5	403.2	16.34	25.681		
4,800.0	4,799.6	4,777.5	4,759.3	8.4	10.8	143.63	-386.8	136.2	431.7	415.0	16.68	25.879		
4,900.0	4,899.5	4,876.7	4,858.1	8.5	11.1	144.03	-396.0	138.0	443.8	426.8	17.02	26.070		
5,000.0	4,999.5	4,975.9	4,956.9	8.7	11.3	144.41	-405.1	139.9	456.0	438.7	17.37	26.254		
5,100.0	5,099.4	5,075.1	5,055.7	8.9	11.6	144.76	-414.2	141.7	468.2	450.5	17.71	26.431		

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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												S32-T2N-R68W (File) - File 3N-32H-K268 - Hz - Plan #1		Offset Site Error:		0.0 ft
Survey Program:												0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
5,200.0	5,199.3	5,174.3	5,154.4	9.1	11.8	145.10	-423.3	143.5	480.5	462.4	18.06	26.603				
5,300.0	5,299.3	5,273.5	5,253.2	9.3	12.0	145.43	-432.4	145.4	492.7	474.3	18.41	26.768				
7,000.0	6,998.2	7,829.5	7,378.0	12.3	14.0	76.06	97.0	184.6	408.9	382.7	26.17	15.623				
7,100.0	7,098.0	7,826.6	7,378.0	12.5	14.0	-95.87	94.1	184.6	317.7	291.5	26.19	12.131				
7,200.0	7,195.9	7,806.7	7,378.0	12.6	13.9	-106.79	74.2	184.6	235.3	209.1	26.14	9.000				
7,300.0	7,288.8	7,770.1	7,378.0	12.7	13.8	-103.56	37.6	184.6	172.4	146.2	26.17	6.587				
7,400.0	7,374.0	7,717.7	7,377.8	12.9	13.6	-89.72	-14.8	184.6	146.1	119.8	26.35	5.545				
7,408.0	7,380.4	7,713.1	7,377.7	12.9	13.6	-88.26	-19.4	184.6	146.0	119.6	26.37	5.537 SF				
7,500.0	7,448.7	7,660.6	7,373.5	13.2	13.6	-70.84	-71.7	184.6	163.2	137.1	26.08	6.258				
7,600.0	7,510.9	7,600.0	7,362.8	13.6	13.6	-52.61	-131.3	184.4	207.6	183.1	24.58	8.448				
7,700.0	7,558.5	7,550.0	7,349.3	14.2	13.6	-40.62	-179.5	184.1	261.3	238.6	22.69	11.517				
7,800.0	7,590.2	7,500.0	7,331.6	15.0	13.7	-32.11	-226.2	183.8	315.8	294.8	20.91	15.099				
7,900.0	7,604.9	7,450.0	7,309.9	16.0	13.9	-26.22	-271.2	183.4	367.1	347.4	19.70	18.633				
8,000.0	7,606.0	7,400.0	7,284.4	17.1	14.1	-23.38	-314.2	182.9	416.3	396.8	19.49	21.362				
8,100.0	7,606.0	7,350.0	7,255.2	18.3	14.3	-21.49	-354.8	182.4	472.1	452.6	19.52	24.191				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3O-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	93.23	-3.6	64.3	64.5	64.1	0.30	212.226		
100.0	100.0	100.0	100.0	0.2	0.2	93.23	-3.6	64.3	64.5	64.1	0.65	98.736		
200.0	200.0	200.0	200.0	0.3	0.3	93.23	-3.6	64.3	64.5	63.8	0.77	83.761	CC	
233.4	233.4	233.4	233.4	0.4	0.4	93.23	-3.6	64.3	64.5	63.7	1.00	64.510	ES	
300.0	300.0	299.6	299.6	0.5	0.5	93.38	-3.8	64.5	64.6	63.6	1.35	48.658		
400.0	400.0	398.9	398.9	0.7	0.7	94.52	-5.2	65.5	65.7	64.4				
500.0	500.0	498.0	498.0	0.8	0.9	96.69	-7.9	67.6	68.1	66.4	1.70	39.931		
600.0	600.0	597.1	596.8	1.0	1.0	99.67	-12.0	70.7	71.7	69.7	2.06	34.749		
700.0	700.0	695.9	695.4	1.2	1.2	103.18	-17.5	74.8	76.9	74.5	2.43	31.629		
800.0	800.0	794.4	793.6	1.4	1.5	106.93	-24.3	79.9	83.7	80.9	2.81	29.844		
900.0	900.0	892.7	891.4	1.5	1.7	110.67	-32.4	86.0	92.3	89.1	3.18	28.990		
1,000.0	1,000.0	992.1	990.2	1.7	1.9	114.01	-41.2	92.6	101.8	98.2	3.56	28.587		
1,100.0	1,100.0	1,091.5	1,088.9	1.9	2.2	116.77	-50.0	99.1	111.6	107.7	3.94	28.354		
1,200.0	1,200.0	1,190.9	1,187.7	2.1	2.4	119.08	-58.8	105.7	121.6	117.3	4.31	28.227		
1,300.0	1,300.0	1,290.3	1,286.5	2.2	2.7	121.04	-67.6	112.3	131.8	127.1	4.68	28.169		
1,400.0	1,400.0	1,389.7	1,385.3	2.4	2.9	122.71	-76.4	118.9	142.1	137.1	5.05	28.155		
1,500.0	1,500.0	1,489.0	1,484.0	2.6	3.2	124.16	-85.2	125.5	152.5	147.1	5.42	28.170		
1,600.0	1,600.0	1,588.4	1,582.8	2.8	3.4	125.42	-94.0	132.1	163.0	157.3	5.78	28.204		
1,700.0	1,700.0	1,687.8	1,681.6	2.9	3.7	126.53	-102.8	138.7	173.6	167.5	6.15	28.250		
1,800.0	1,800.0	1,787.2	1,780.4	3.1	3.9	127.51	-111.6	145.3	184.2	177.7	6.51	28.302		
1,900.0	1,900.0	1,886.6	1,879.1	3.3	4.2	128.39	-120.4	151.9	194.9	188.1	6.87	28.360		
2,000.0	2,000.0	1,986.0	1,977.9	3.5	4.5	129.17	-129.1	158.5	205.6	198.4	7.24	28.419		
2,100.0	2,100.0	2,085.4	2,076.7	3.6	4.7	129.88	-137.9	165.1	216.4	208.8	7.60	28.479		
2,200.0	2,200.0	2,184.7	2,175.5	3.8	5.0	130.52	-146.7	171.7	227.2	219.2	7.96	28.539		
2,300.0	2,300.0	2,284.1	2,274.3	4.0	5.2	131.10	-155.5	178.3	238.0	229.7	8.32	28.598		
2,400.0	2,400.0	2,383.5	2,373.0	4.2	5.5	131.63	-164.3	184.9	248.8	240.1	8.68	28.655		
2,500.0	2,500.0	2,482.9	2,471.8	4.3	5.7	132.11	-173.1	191.5	259.7	250.6	9.04	28.711		
2,600.0	2,600.0	2,582.3	2,570.6	4.5	6.0	132.56	-181.9	198.1	270.5	261.1	9.40	28.766		
2,700.0	2,700.0	2,681.7	2,669.4	4.7	6.3	132.97	-190.7	204.7	281.4	271.6	9.77	28.818		
2,800.0	2,800.0	2,781.1	2,768.1	4.9	6.5	133.35	-199.5	211.3	292.3	282.2	10.13	28.869		
2,900.0	2,900.0	2,880.5	2,866.9	5.0	6.8	133.71	-208.3	217.9	303.2	292.7	10.49	28.917		
3,000.0	3,000.0	2,979.8	2,965.7	5.2	7.0	134.04	-217.1	224.5	314.1	303.3	10.85	28.964		
3,100.0	3,100.0	3,079.2	3,064.5	5.4	7.3	134.35	-225.8	231.1	325.1	313.8	11.21	29.009		
3,200.0	3,200.0	3,178.6	3,163.2	5.6	7.5	134.63	-234.6	237.7	336.0	324.4	11.57	29.052		
3,300.0	3,300.0	3,278.0	3,262.0	5.7	7.8	134.90	-243.4	244.3	346.9	335.0	11.92	29.093		
3,400.0	3,400.0	3,377.4	3,360.8	5.9	8.1	135.16	-252.2	250.8	357.9	345.6	12.28	29.133		
3,500.0	3,500.0	3,476.8	3,459.6	6.1	8.3	135.39	-261.0	257.4	368.8	356.2	12.64	29.171		
3,600.0	3,600.0	3,576.2	3,558.4	6.3	8.6	135.62	-269.8	264.0	379.8	366.8	13.00	29.208		
3,700.0	3,700.0	3,675.5	3,657.1	6.4	8.8	135.83	-278.6	270.6	390.8	377.4	13.36	29.243		
3,800.0	3,800.0	3,774.9	3,755.9	6.6	9.1	136.03	-287.4	277.2	401.7	388.0	13.72	29.277		
3,900.0	3,900.0	3,874.3	3,854.7	6.8	9.4	136.22	-296.2	283.8	412.7	398.6	14.08	29.310		
4,000.0	4,000.0	3,973.7	3,953.5	7.0	9.6	136.40	-305.0	290.4	423.7	409.3	14.44	29.341		
4,100.0	4,100.0	4,073.0	4,052.2	7.1	9.9	117.69	-313.8	297.0	435.1	420.8	14.25	30.541		
4,200.0	4,200.0	4,172.2	4,150.8	7.3	10.1	118.04	-322.5	303.6	447.3	432.7	14.59	30.668		
4,300.0	4,299.9	4,271.3	4,249.3	7.5	10.4	118.57	-331.3	310.2	460.0	445.0	14.93	30.815		
4,400.0	4,399.8	4,370.4	4,347.8	7.7	10.6	119.07	-340.1	316.7	472.7	457.4	15.27	30.956		
4,500.0	4,499.8	4,469.5	4,446.3	7.8	10.9	119.55	-348.8	323.3	485.4	469.8	15.61	31.091		
4,600.0	4,599.7	4,568.6	4,544.7	8.0	11.2	120.01	-357.6	329.9	498.2	482.3	15.96	31.221		
7,600.0	7,510.9	7,781.5	7,574.2	13.6	16.1	-93.50	-192.3	532.2	496.0	468.4	27.52	18.021		
7,700.0	7,558.5	7,711.2	7,547.2	14.2	16.3	-87.97	-257.1	530.4	487.9	459.6	28.26	17.266		
7,720.9	7,566.5	7,697.2	7,540.9	14.4	16.3	-86.76	-269.6	530.0	487.6	459.2	28.44	17.147		
7,800.0	7,590.2	7,645.9	7,515.1	15.0	16.4	-82.02	-314.0	528.2	490.9	461.8	29.08	16.877	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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3P-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			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	89.99	0.0	69.9	69.9					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	69.9	69.9	69.6	0.30	230.314		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	69.9	69.9	69.3	0.65	107.151 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	90.42	-0.5	70.6	70.6	69.6	1.00	70.575		
400.0	400.0	398.0	398.0	0.7	0.7	91.64	-2.1	72.7	72.7	71.4	1.35	53.800		
500.0	500.0	496.9	496.7	0.8	0.9	93.53	-4.7	76.0	76.2	74.5	1.71	44.673		
600.0	600.0	595.5	595.2	1.0	1.1	95.89	-8.3	80.7	81.3	79.2	2.07	39.332		
700.0	700.0	694.0	693.4	1.2	1.3	98.52	-13.0	86.8	88.0	85.6	2.43	36.164		
800.0	800.0	792.1	791.1	1.4	1.5	101.23	-18.7	94.1	96.4	93.6	2.80	34.368		
900.0	900.0	889.9	888.3	1.5	1.7	103.86	-25.4	102.8	106.5	103.3	3.18	33.498		
1,000.0	1,000.0	987.4	984.9	1.7	2.0	106.33	-33.0	112.7	118.4	114.8	3.56	33.280 SF		
1,100.0	1,100.0	1,084.7	1,081.2	1.9	2.3	108.59	-41.7	123.9	132.0	128.1	3.94	33.540		
1,200.0	1,200.0	1,183.5	1,178.9	2.1	2.6	110.52	-50.8	135.6	146.4	142.0	4.32	33.907		
1,300.0	1,300.0	1,282.4	1,276.6	2.2	2.9	112.10	-59.9	147.4	160.8	156.1	4.69	34.260		
1,400.0	1,400.0	1,381.3	1,374.4	2.4	3.2	113.42	-69.0	159.2	175.4	170.3	5.07	34.592		
1,500.0	1,500.0	1,480.1	1,472.1	2.6	3.5	114.54	-78.1	171.0	190.1	184.6	5.45	34.902		
1,600.0	1,600.0	1,579.0	1,569.8	2.8	3.8	115.50	-87.2	182.8	204.8	198.9	5.82	35.189		
1,700.0	1,700.0	1,677.8	1,667.6	2.9	4.1	116.33	-96.3	194.6	219.5	213.3	6.19	35.455		
1,800.0	1,800.0	1,776.7	1,765.3	3.1	4.4	117.06	-105.4	206.4	234.3	227.8	6.56	35.701		
1,900.0	1,900.0	1,875.5	1,863.0	3.3	4.7	117.70	-114.5	218.2	249.2	242.2	6.93	35.929		
2,000.0	2,000.0	1,974.4	1,960.7	3.5	5.0	118.26	-123.6	230.0	264.0	256.7	7.31	36.140		
2,100.0	2,100.0	2,073.3	2,058.5	3.6	5.3	118.77	-132.7	241.7	278.9	271.2	7.68	36.336		
2,200.0	2,200.0	2,172.1	2,156.2	3.8	5.6	119.23	-141.9	253.5	293.8	285.8	8.05	36.519		
2,300.0	2,300.0	2,271.0	2,253.9	4.0	6.0	119.64	-151.0	265.3	308.7	300.3	8.41	36.688		
2,400.0	2,400.0	2,369.8	2,351.7	4.2	6.3	120.01	-160.1	277.1	323.6	314.9	8.78	36.847		
2,500.0	2,500.0	2,468.7	2,449.4	4.3	6.6	120.35	-169.2	288.9	338.6	329.4	9.15	36.995		
2,600.0	2,600.0	2,567.6	2,547.1	4.5	6.9	120.67	-178.3	300.7	353.5	344.0	9.52	37.133		
2,700.0	2,700.0	2,666.4	2,644.8	4.7	7.2	120.95	-187.4	312.5	368.5	358.6	9.89	37.263		
2,800.0	2,800.0	2,765.3	2,742.6	4.9	7.5	121.22	-196.5	324.3	383.5	373.2	10.26	37.386		
2,900.0	2,900.0	2,864.1	2,840.3	5.0	7.8	121.46	-205.6	336.0	398.5	387.8	10.63	37.501		
3,000.0	3,000.0	2,963.0	2,938.0	5.2	8.1	121.69	-214.7	347.8	413.4	402.4	10.99	37.609		
3,100.0	3,100.0	3,061.8	3,035.8	5.4	8.4	121.90	-223.8	359.6	428.4	417.1	11.36	37.711		
3,200.0	3,200.0	3,160.7	3,133.5	5.6	8.8	122.10	-232.9	371.4	443.4	431.7	11.73	37.808		
3,300.0	3,300.0	3,259.6	3,231.2	5.7	9.1	122.28	-242.1	383.2	458.4	446.3	12.10	37.899		
3,400.0	3,400.0	3,358.4	3,328.9	5.9	9.4	122.45	-251.2	395.0	473.4	461.0	12.46	37.986		
3,500.0	3,500.0	3,457.3	3,426.7	6.1	9.7	122.61	-260.3	406.8	488.4	475.6	12.83	38.068		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design										S32-T2N-R68W (File) - GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS				Offset Site Error:		0.0 ft
Survey Program: 8440-Geolink MWD														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
12,700.0	7,606.0	7,680.0	7,680.0		94.5	13.4	-90.00	-5,384.0	528.9	464.9	357.0	107.91	4.308			
12,800.0	7,606.0	7,680.0	7,680.0		96.2	13.4	-90.00	-5,384.0	528.9	443.3	333.7	109.65	4.043			
12,847.9	7,606.0	7,680.0	7,680.0		97.1	13.4	-90.00	-5,384.0	528.9	440.7	330.3	110.48	3.989 CC, ES			
12,900.0	7,606.0	7,680.0	7,680.0		98.0	13.4	-90.00	-5,384.0	528.9	443.8	332.4	111.39	3.984 SF			
13,000.0	7,606.0	7,680.0	7,680.0		99.7	13.4	-90.00	-5,384.0	528.9	466.3	353.1	113.13	4.122			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 4996-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	62.30	182.1	346.9	391.8					
100.0	100.0	99.0	99.0	0.2	0.2	62.30	182.1	346.9	391.8	391.5	0.32	1,208.542		
200.0	200.0	199.0	199.0	0.3	0.3	62.30	182.1	346.9	391.8	391.2	0.67	582.331		
300.0	300.0	299.0	299.0	0.5	0.5	62.30	182.1	346.9	391.8	390.8	1.02	383.578		
400.0	400.0	399.0	399.0	0.7	0.7	62.30	182.1	346.9	391.8	390.5	1.37	285.974		
500.0	500.0	499.0	499.0	0.8	0.9	62.30	182.1	346.9	391.8	390.1	1.72	227.966		
600.0	600.0	599.0	599.0	1.0	1.0	62.30	182.1	346.9	391.8	389.8	2.07	189.523		
700.0	700.0	699.0	699.0	1.2	1.2	62.30	182.1	346.9	391.8	389.4	2.42	162.174		
800.0	800.0	799.0	799.0	1.4	1.4	62.30	182.1	346.9	391.8	389.1	2.76	141.724		
900.0	900.0	899.0	899.0	1.5	1.6	62.30	182.1	346.9	391.8	388.7	3.11	125.853		
1,000.0	1,000.0	999.0	999.0	1.7	1.7	62.30	182.1	346.9	391.8	388.4	3.46	113.179		
1,100.0	1,100.0	1,099.0	1,099.0	1.9	1.9	62.30	182.1	346.9	391.8	388.0	3.81	102.824		
1,200.0	1,200.0	1,199.0	1,199.0	2.1	2.1	62.30	182.1	346.9	391.8	387.7	4.16	94.205		
1,300.0	1,300.0	1,299.0	1,299.0	2.2	2.3	62.30	182.1	346.9	391.8	387.3	4.51	86.919		
1,400.0	1,400.0	1,399.0	1,399.0	2.4	2.4	62.30	182.1	346.9	391.8	387.0	4.86	80.679		
1,500.0	1,500.0	1,499.0	1,499.0	2.6	2.6	62.30	182.1	346.9	391.8	386.6	5.21	75.275		
1,600.0	1,600.0	1,599.0	1,599.0	2.8	2.8	62.30	182.1	346.9	391.8	386.3	5.55	70.550		
1,700.0	1,700.0	1,699.0	1,699.0	2.9	3.0	62.30	182.1	346.9	391.8	385.9	5.90	66.383		
1,800.0	1,800.0	1,799.0	1,799.0	3.1	3.1	62.30	182.1	346.9	391.8	385.6	6.25	62.681		
1,900.0	1,900.0	1,899.0	1,899.0	3.3	3.3	62.30	182.1	346.9	391.8	385.2	6.60	59.369		
2,000.0	2,000.0	1,999.0	1,999.0	3.5	3.5	62.30	182.1	346.9	391.8	384.9	6.95	56.390		
2,100.0	2,100.0	2,099.0	2,099.0	3.6	3.7	62.30	182.1	346.9	391.8	384.5	7.30	53.696		
2,200.0	2,200.0	2,199.0	2,199.0	3.8	3.8	62.30	182.1	346.9	391.8	384.2	7.65	51.248		
2,300.0	2,300.0	2,299.0	2,299.0	4.0	4.0	62.30	182.1	346.9	391.8	383.8	7.99	49.013		
2,400.0	2,400.0	2,399.0	2,399.0	4.2	4.2	62.30	182.1	346.9	391.8	383.5	8.34	46.965		
2,500.0	2,500.0	2,499.0	2,499.0	4.3	4.4	62.30	182.1	346.9	391.8	383.1	8.69	45.081		
2,600.0	2,600.0	2,599.0	2,599.0	4.5	4.5	62.30	182.1	346.9	391.8	382.8	9.04	43.342		
2,700.0	2,700.0	2,699.0	2,699.0	4.7	4.7	62.30	182.1	346.9	391.8	382.4	9.39	41.733		
2,800.0	2,800.0	2,799.0	2,799.0	4.9	4.9	62.30	182.1	346.9	391.8	382.1	9.74	40.238		
2,900.0	2,900.0	2,899.0	2,899.0	5.0	5.0	62.30	182.1	346.9	391.8	381.7	10.09	38.848		
3,000.0	3,000.0	2,999.0	2,999.0	5.2	5.2	62.30	182.1	346.9	391.8	381.4	10.43	37.550		
3,100.0	3,100.0	3,099.0	3,099.0	5.4	5.4	62.30	182.1	346.9	391.8	381.0	10.78	36.336		
3,200.0	3,200.0	3,199.0	3,199.0	5.6	5.6	62.30	182.1	346.9	391.8	380.7	11.13	35.198		
3,300.0	3,300.0	3,299.0	3,299.0	5.7	5.7	62.30	182.1	346.9	391.8	380.3	11.48	34.129		
3,400.0	3,400.0	3,399.0	3,399.0	5.9	5.9	62.30	182.1	346.9	391.8	380.0	11.83	33.123		
3,500.0	3,500.0	3,499.0	3,499.0	6.1	6.1	62.30	182.1	346.9	391.8	379.7	12.18	32.175		
3,600.0	3,600.0	3,599.0	3,599.0	6.3	6.3	62.30	182.1	346.9	391.8	379.3	12.53	31.279		
3,700.0	3,700.0	3,699.0	3,699.0	6.4	6.4	62.30	182.1	346.9	391.8	379.0	12.88	30.432		
3,800.0	3,800.0	3,799.0	3,799.0	6.6	6.6	62.30	182.1	346.9	391.8	378.6	13.22	29.630		
3,900.0	3,900.0	3,899.0	3,899.0	6.8	6.8	62.30	182.1	346.9	391.8	378.3	13.57	28.869		
4,000.0	4,000.0	3,999.0	3,999.0	7.0	7.0	62.30	182.1	346.9	391.8	377.9	13.92	28.146		
4,100.0	4,100.0	4,099.0	4,099.0	7.1	7.1	43.51	182.1	346.9	391.2	376.9	14.27	27.415		
4,200.0	4,200.0	4,199.0	4,199.0	7.3	7.3	43.79	182.1	346.9	389.3	374.7	14.62	26.635		
4,300.0	4,299.9	4,298.9	4,298.9	7.5	7.5	44.15	182.1	346.9	386.8	371.8	14.96	25.844		
4,400.0	4,399.8	4,398.8	4,398.8	7.7	7.7	44.52	182.1	346.9	384.2	368.9	15.31	25.090		
4,500.0	4,499.8	4,498.8	4,498.8	7.8	7.8	44.89	182.1	346.9	381.7	366.0	15.66	24.369		
4,600.0	4,599.7	4,598.7	4,598.7	8.0	8.0	45.26	182.1	346.9	379.2	363.2	16.01	23.681		
4,700.0	4,699.6	4,698.6	4,698.6	8.2	8.2	45.65	182.1	346.9	376.7	360.4	16.36	23.023		
4,800.0	4,799.6	4,798.6	4,798.6	8.4	8.4	46.03	182.1	346.9	374.3	357.6	16.71	22.393		
4,900.0	4,899.5	4,898.5	4,898.5	8.5	8.5	46.43	182.1	346.9	371.8	354.8	17.06	21.790		
5,000.0	4,999.5	4,996.0	4,996.0	8.7	8.7	46.81	182.1	346.9	369.4	352.0	17.41	21.218		
5,006.5	5,005.9	4,996.0	4,996.0	8.7	8.7	46.81	182.1	346.9	369.3	351.9	17.42	21.200 CC, ES, 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 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 4996-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	5,099.4	4,996.0	4,996.0	8.9	8.7	46.81	182.1	346.9	381.0	363.4	17.59	21.664	
5,200.0	5,199.3	4,996.0	4,996.0	9.1	8.7	46.81	182.1	346.9	417.0	399.2	17.76	23.473	
5,300.0	5,299.3	4,996.0	4,996.0	9.3	8.7	46.81	182.1	346.9	471.8	453.8	17.94	26.296	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8375-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
13,300.0	7,606.0	7,650.0	7,650.0	104.9	13.4	-90.00	-6,294.7	114.7	455.3	337.0	118.29	3.849		
13,400.0	7,606.0	7,650.0	7,650.0	106.7	13.4	-90.00	-6,294.7	114.7	355.4	235.4	120.04	2.961		
13,500.0	7,606.0	7,650.0	7,650.0	108.4	13.4	-90.00	-6,294.7	114.7	255.6	133.8	121.78	2.099		
13,585.5	7,606.0	7,650.0	7,650.0	109.9	13.4	-90.00	-6,294.7	114.7	170.5	47.2	123.27	1.383	Level 3, CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8140-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Separation	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		Factor	Warning
5,100.0	5,099.4	5,002.4	5,002.4	8.9	8.7	57.13	154.1	495.5	498.9	481.2	17.62		28.306	
5,200.0	5,199.3	5,102.3	5,102.3	9.1	8.9	57.48	154.1	495.5	497.0	479.0	17.98		27.645	
5,300.0	5,299.3	5,202.3	5,202.3	9.3	9.1	57.82	154.1	495.5	495.1	476.7	18.33		27.010	
5,400.0	5,399.2	5,302.2	5,302.2	9.4	9.3	58.17	154.1	495.5	493.2	474.5	18.68		26.400	
5,500.0	5,499.1	5,402.1	5,402.1	9.6	9.4	58.52	154.1	495.5	491.3	472.3	19.03		25.814	
5,600.0	5,599.1	5,502.1	5,502.1	9.8	9.6	58.87	154.1	495.5	489.5	470.1	19.39		25.249	
5,700.0	5,699.0	5,602.0	5,602.0	10.0	9.8	59.23	154.1	495.5	487.7	467.9	19.74		24.705	
5,800.0	5,799.0	5,702.0	5,702.0	10.2	10.0	59.58	154.1	495.5	485.9	465.8	20.09		24.181	
5,900.0	5,898.9	5,801.9	5,801.9	10.3	10.1	59.95	154.1	495.5	484.1	463.6	20.45		23.676	
6,000.0	5,998.8	5,901.8	5,901.8	10.5	10.3	60.31	154.1	495.5	482.3	461.5	20.80		23.188	
6,100.0	6,098.8	6,001.8	6,001.8	10.7	10.5	60.68	154.1	495.5	480.6	459.4	21.15		22.718	
6,200.0	6,198.7	6,101.7	6,101.7	10.9	10.6	61.04	154.1	495.5	478.9	457.4	21.51		22.264	
6,300.0	6,298.6	6,201.6	6,201.6	11.1	10.8	61.41	154.1	495.5	477.2	455.3	21.86		21.825	
6,400.0	6,398.6	6,301.6	6,301.6	11.2	11.0	61.79	154.1	495.5	475.5	453.3	22.22		21.401	
6,500.0	6,498.5	6,401.5	6,401.5	11.4	11.2	62.17	154.1	495.5	473.8	451.2	22.57		20.992	
6,600.0	6,598.5	6,501.5	6,501.5	11.6	11.3	62.54	154.1	495.5	472.2	449.3	22.93		20.595	
6,700.0	6,698.4	6,601.4	6,601.4	11.8	11.5	62.93	154.1	495.5	470.6	447.3	23.28		20.211	
6,800.0	6,798.3	6,701.3	6,701.3	12.0	11.7	63.31	154.1	495.5	469.0	445.3	23.64		19.840	
6,900.0	6,898.3	6,801.3	6,801.3	12.1	11.9	63.70	154.1	495.5	467.4	443.4	23.99		19.481	
7,000.0	6,998.2	6,901.2	6,901.2	12.3	12.0	64.09	154.1	495.5	465.8	441.5	24.35		19.132	
7,092.2	7,090.3	6,993.3	6,993.3	12.5	12.2	-90.41	154.1	495.5	465.1	440.5	24.66		18.865	
7,100.0	7,098.0	7,001.0	7,001.0	12.5	12.2	-91.03	154.1	495.5	465.0	440.3	24.68		18.840 CC, ES	
7,200.0	7,195.9	7,098.9	7,098.9	12.6	12.4	-96.80	154.1	495.5	466.7	441.7	24.97		18.691 SF	
7,300.0	7,288.8	7,191.8	7,191.8	12.7	12.6	-101.14	154.1	495.5	473.0	447.7	25.21		18.763	
7,400.0	7,374.0	7,277.0	7,277.0	12.9	12.7	-105.35	154.1	495.5	487.1	461.7	25.39		19.184	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 738-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,300.0	7,606.0	7,722.1	7,629.3	20.9	20.8	-94.29	-1,246.1	228.9	444.4	408.0	36.42	12.202	
8,400.0	7,606.0	7,720.1	7,627.3	22.3	20.8	-93.65	-1,246.1	229.0	354.9	317.1	37.85	9.377	
8,500.0	7,606.0	7,718.2	7,625.3	23.8	20.8	-93.02	-1,246.1	229.0	272.9	233.6	39.33	6.939	
8,600.0	7,606.0	7,716.2	7,623.4	25.3	20.7	-92.39	-1,246.2	229.1	207.3	166.5	40.84	5.076	
8,700.0	7,606.0	7,714.3	7,621.5	26.8	20.7	-91.77	-1,246.2	229.1	177.4	135.0	42.38	4.185	
8,707.6	7,606.0	7,714.2	7,621.3	26.9	20.7	-91.72	-1,246.2	229.1	177.2	134.7	42.50	4.169	CC, ES, SF
8,800.0	7,606.0	7,712.4	7,619.6	28.3	20.7	-91.15	-1,246.2	229.2	199.8	155.9	43.95	4.547	
8,900.0	7,606.0	7,710.5	7,617.7	29.9	20.7	-90.54	-1,246.3	229.3	261.5	216.0	45.53	5.744	
9,000.0	7,606.0	7,708.6	7,615.8	31.5	20.7	-89.93	-1,246.3	229.3	341.9	294.7	47.13	7.253	
9,100.0	7,606.0	7,706.8	7,613.9	33.1	20.7	-89.33	-1,246.3	229.4	430.5	381.7	48.74	8.832	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8376-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,700.0	7,606.0	7,665.0	7,665.0	94.5	13.4	90.00	-5,711.9	-64.4	495.5	387.6	107.88	4.593		
12,800.0	7,606.0	7,665.0	7,665.0	96.2	13.4	90.00	-5,711.9	-64.4	401.8	292.2	109.62	3.665		
12,900.0	7,606.0	7,665.0	7,665.0	98.0	13.4	90.00	-5,711.9	-64.4	312.0	200.6	111.36	2.801		
13,000.0	7,606.0	7,665.0	7,665.0	99.7	13.4	90.00	-5,711.9	-64.4	230.7	117.6	113.10	2.040		
13,100.0	7,606.0	7,665.0	7,665.0	101.5	13.4	90.00	-5,711.9	-64.4	170.6	55.8	114.84	1.486 Level 3		
13,170.5	7,606.0	7,665.0	7,665.0	102.7	13.4	90.00	-5,711.9	-64.4	155.4	39.3	116.07	1.338 Level 3, CC, ES, SF		
13,200.0	7,606.0	7,665.0	7,665.0	103.2	13.4	90.00	-5,711.9	-64.4	158.1	41.5	116.58	1.356 Level 3		
13,300.0	7,606.0	7,665.0	7,665.0	104.9	13.4	90.00	-5,711.9	-64.4	202.2	83.9	118.32	1.709		
13,400.0	7,606.0	7,665.0	7,665.0	106.7	13.4	90.00	-5,711.9	-64.4	277.1	157.0	120.06	2.308		
13,500.0	7,606.0	7,665.0	7,665.0	108.4	13.4	90.00	-5,711.9	-64.4	364.3	242.4	121.80	2.990		
13,585.5	7,606.0	7,665.0	7,665.0	109.9	13.4	90.00	-5,711.9	-64.4	443.1	319.8	123.29	3.594		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3F-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3F-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4971.0ft (Original Well Elev)

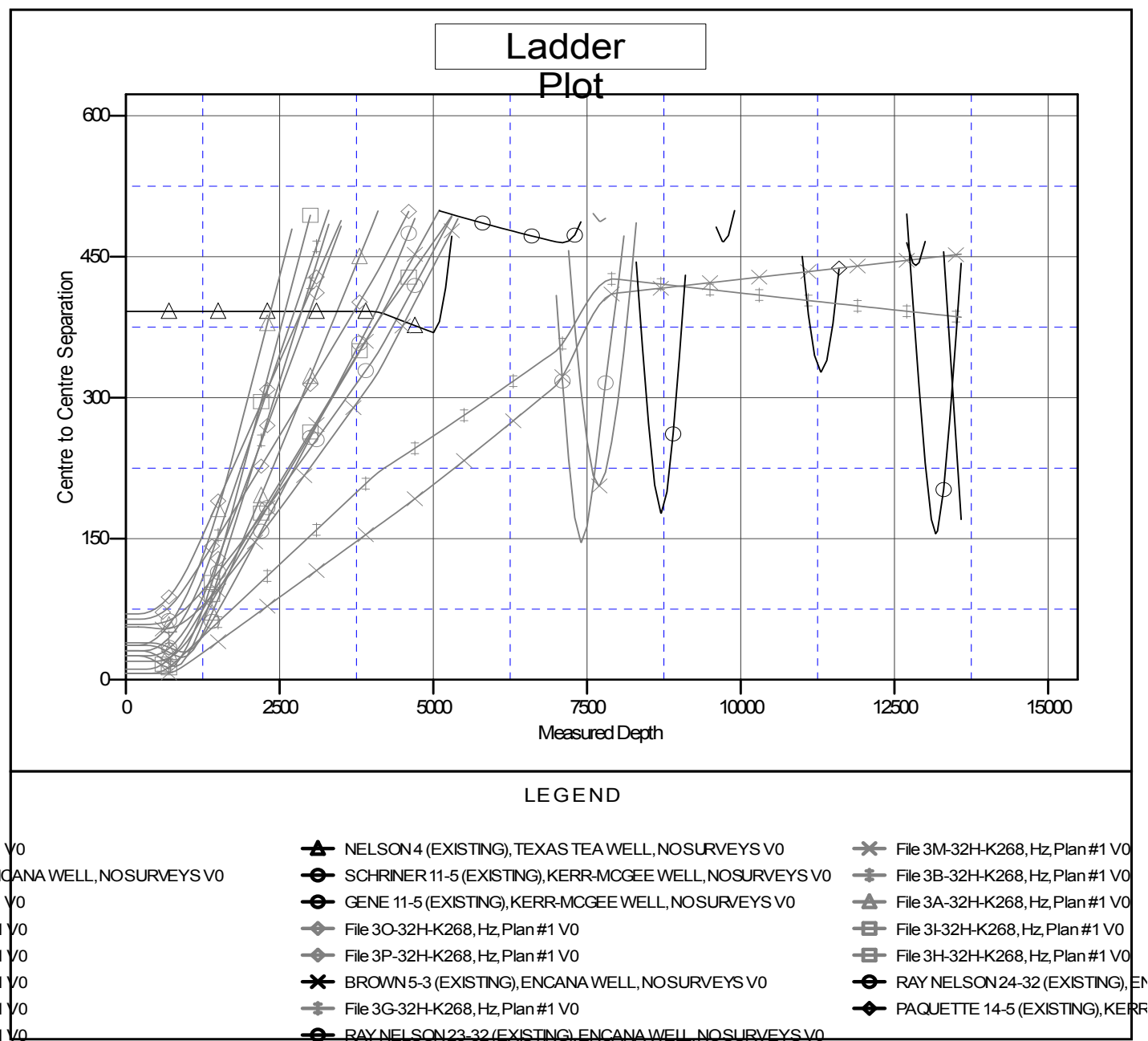
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°



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