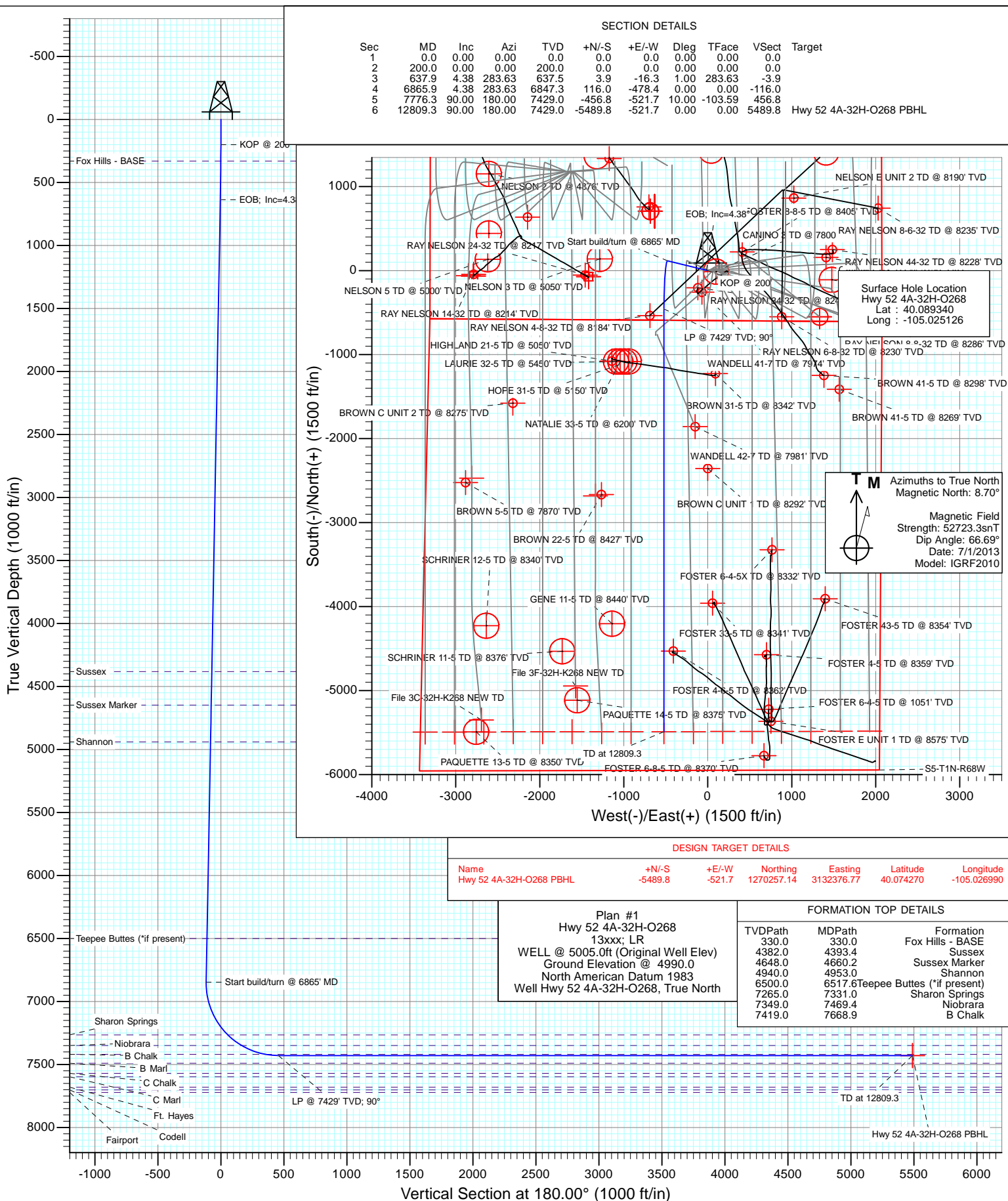




Project: DJ Wattenberg
Site: S32-T2N-R68W (File/Hwy 52)
Well: Hwy 52 4A-32H-O268
Wellbore: Hz
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	Hwy 52 4A-32H-O268	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/Hwy 52)			
Site Position:		Northing:	1,275,973.93 ft	Latitude:	40.089950
From:	Lat/Long	Easting:	3,133,277.97 ft	Longitude:	-105.023660
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.31 °

Well	Hwy 52 4A-32H-O268					
Well Position	+N/-S	0.0 ft	Northing:	1,275,749.69 ft	Latitude:	40.089340
	+E/-W	0.0 ft	Easting:	3,132,869.09 ft	Longitude:	-105.025126
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,990.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/1/2013	8.70	66.69	52,723

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
637.9	4.38	283.63	637.5	3.9	-16.3	1.00	1.00	0.00	283.63	
6,865.9	4.38	283.63	6,847.3	116.0	-478.4	0.00	0.00	0.00	0.00	
7,776.3	90.00	180.00	7,429.0	-456.8	-521.7	10.00	9.41	-11.38	-103.59	
12,809.3	90.00	180.00	7,429.0	-5,489.8	-521.7	0.00	0.00	0.00	0.00	Hwy 52 4A-32H-O268

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	Hwy 52 4A-32H-O268	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	KOP @ 200'
300.0	1.00	283.63	300.0	0.2	-0.8	-0.2	1.00	1.00	
330.0	1.30	283.63	330.0	0.3	-1.4	-0.3	1.00	1.00	Fox Hills - BASE
400.0	2.00	283.63	400.0	0.8	-3.4	-0.8	1.00	1.00	
500.0	3.00	283.63	499.9	1.9	-7.6	-1.9	1.00	1.00	
600.0	4.00	283.63	599.7	3.3	-13.6	-3.3	1.00	1.00	
637.9	4.38	283.63	637.5	3.9	-16.3	-3.9	1.00	1.00	EOB; Inc=4.38°
700.0	4.38	283.63	699.4	5.1	-20.9	-5.1	0.00	0.00	
800.0	4.38	283.63	799.1	6.9	-28.3	-6.9	0.00	0.00	
900.0	4.38	283.63	898.8	8.7	-35.7	-8.7	0.00	0.00	
1,000.0	4.38	283.63	998.5	10.5	-43.1	-10.5	0.00	0.00	
1,100.0	4.38	283.63	1,098.2	12.3	-50.5	-12.3	0.00	0.00	
1,200.0	4.38	283.63	1,197.9	14.1	-58.0	-14.1	0.00	0.00	
1,300.0	4.38	283.63	1,297.6	15.9	-65.4	-15.9	0.00	0.00	
1,400.0	4.38	283.63	1,397.3	17.7	-72.8	-17.7	0.00	0.00	
1,500.0	4.38	283.63	1,497.1	19.5	-80.2	-19.5	0.00	0.00	
1,600.0	4.38	283.63	1,596.8	21.3	-87.7	-21.3	0.00	0.00	
1,700.0	4.38	283.63	1,696.5	23.1	-95.1	-23.1	0.00	0.00	
1,800.0	4.38	283.63	1,796.2	24.9	-102.5	-24.9	0.00	0.00	
1,900.0	4.38	283.63	1,895.9	26.7	-109.9	-26.7	0.00	0.00	
2,000.0	4.38	283.63	1,995.6	28.5	-117.3	-28.5	0.00	0.00	
2,100.0	4.38	283.63	2,095.3	30.3	-124.8	-30.3	0.00	0.00	
2,200.0	4.38	283.63	2,195.0	32.1	-132.2	-32.1	0.00	0.00	
2,300.0	4.38	283.63	2,294.7	33.9	-139.6	-33.9	0.00	0.00	
2,400.0	4.38	283.63	2,394.4	35.7	-147.0	-35.7	0.00	0.00	
2,500.0	4.38	283.63	2,494.1	37.5	-154.4	-37.5	0.00	0.00	
2,600.0	4.38	283.63	2,593.8	39.3	-161.9	-39.3	0.00	0.00	
2,700.0	4.38	283.63	2,693.6	41.1	-169.3	-41.1	0.00	0.00	
2,800.0	4.38	283.63	2,793.3	42.9	-176.7	-42.9	0.00	0.00	
2,900.0	4.38	283.63	2,893.0	44.7	-184.1	-44.7	0.00	0.00	
3,000.0	4.38	283.63	2,992.7	46.5	-191.5	-46.5	0.00	0.00	
3,100.0	4.38	283.63	3,092.4	48.3	-199.0	-48.3	0.00	0.00	
3,200.0	4.38	283.63	3,192.1	50.1	-206.4	-50.1	0.00	0.00	
3,300.0	4.38	283.63	3,291.8	51.9	-213.8	-51.9	0.00	0.00	
3,400.0	4.38	283.63	3,391.5	53.7	-221.2	-53.7	0.00	0.00	
3,500.0	4.38	283.63	3,491.2	55.5	-228.6	-55.5	0.00	0.00	
3,600.0	4.38	283.63	3,590.9	57.3	-236.1	-57.3	0.00	0.00	
3,700.0	4.38	283.63	3,690.6	59.1	-243.5	-59.1	0.00	0.00	
3,800.0	4.38	283.63	3,790.3	60.9	-250.9	-60.9	0.00	0.00	
3,900.0	4.38	283.63	3,890.0	62.7	-258.3	-62.7	0.00	0.00	
4,000.0	4.38	283.63	3,989.8	64.5	-265.8	-64.5	0.00	0.00	
4,100.0	4.38	283.63	4,089.5	66.3	-273.2	-66.3	0.00	0.00	
4,200.0	4.38	283.63	4,189.2	68.1	-280.6	-68.1	0.00	0.00	
4,300.0	4.38	283.63	4,288.9	69.9	-288.0	-69.9	0.00	0.00	
4,393.4	4.38	283.63	4,382.0	71.5	-294.9	-71.5	0.00	0.00	Sussex
4,400.0	4.38	283.63	4,388.6	71.7	-295.4	-71.7	0.00	0.00	
4,500.0	4.38	283.63	4,488.3	73.5	-302.9	-73.5	0.00	0.00	
4,600.0	4.38	283.63	4,588.0	75.3	-310.3	-75.3	0.00	0.00	
4,660.2	4.38	283.63	4,648.0	76.3	-314.7	-76.3	0.00	0.00	Sussex Marker
4,700.0	4.38	283.63	4,687.7	77.1	-317.7	-77.1	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	Hwy 52 4A-32H-O268	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	4.38	283.63	4,787.4	78.9	-325.1	-78.9	0.00	0.00	
4,900.0	4.38	283.63	4,887.1	80.7	-332.5	-80.7	0.00	0.00	
4,953.0	4.38	283.63	4,940.0	81.6	-336.5	-81.6	0.00	0.00	Shannon
5,000.0	4.38	283.63	4,986.8	82.5	-340.0	-82.5	0.00	0.00	
5,100.0	4.38	283.63	5,086.5	84.2	-347.4	-84.2	0.00	0.00	
5,200.0	4.38	283.63	5,186.3	86.0	-354.8	-86.0	0.00	0.00	
5,300.0	4.38	283.63	5,286.0	87.8	-362.2	-87.8	0.00	0.00	
5,400.0	4.38	283.63	5,385.7	89.6	-369.6	-89.6	0.00	0.00	
5,500.0	4.38	283.63	5,485.4	91.4	-377.1	-91.4	0.00	0.00	
5,600.0	4.38	283.63	5,585.1	93.2	-384.5	-93.2	0.00	0.00	
5,700.0	4.38	283.63	5,684.8	95.0	-391.9	-95.0	0.00	0.00	
5,800.0	4.38	283.63	5,784.5	96.8	-399.3	-96.8	0.00	0.00	
5,900.0	4.38	283.63	5,884.2	98.6	-406.7	-98.6	0.00	0.00	
6,000.0	4.38	283.63	5,983.9	100.4	-414.2	-100.4	0.00	0.00	
6,100.0	4.38	283.63	6,083.6	102.2	-421.6	-102.2	0.00	0.00	
6,200.0	4.38	283.63	6,183.3	104.0	-429.0	-104.0	0.00	0.00	
6,300.0	4.38	283.63	6,283.0	105.8	-436.4	-105.8	0.00	0.00	
6,400.0	4.38	283.63	6,382.8	107.6	-443.9	-107.6	0.00	0.00	
6,500.0	4.38	283.63	6,482.5	109.4	-451.3	-109.4	0.00	0.00	
6,517.6	4.38	283.63	6,500.0	109.8	-452.6	-109.8	0.00	0.00	Teepee Buttes (*if present)
6,600.0	4.38	283.63	6,582.2	111.2	-458.7	-111.2	0.00	0.00	
6,700.0	4.38	283.63	6,681.9	113.0	-466.1	-113.0	0.00	0.00	
6,800.0	4.38	283.63	6,781.6	114.8	-473.5	-114.8	0.00	0.00	
6,865.9	4.38	283.63	6,847.3	116.0	-478.4	-116.0	0.00	0.00	Start build/turn @ 6865' MD
6,900.0	4.87	240.82	6,881.3	115.6	-481.0	-115.6	10.00	1.45	
7,000.0	13.07	198.69	6,980.1	102.8	-488.3	-102.8	10.00	8.20	
7,100.0	22.75	190.22	7,075.1	73.0	-495.4	-73.0	10.00	9.68	
7,200.0	32.62	186.68	7,163.6	27.1	-502.0	-27.1	10.00	9.87	
7,300.0	42.55	184.65	7,242.7	-33.6	-507.9	33.6	10.00	9.92	
7,331.0	45.63	184.17	7,265.0	-55.1	-509.5	55.1	10.00	9.94	Sharon Springs
7,400.0	52.50	183.27	7,310.2	-107.0	-512.9	107.0	10.00	9.95	
7,469.4	59.41	182.52	7,349.0	-164.4	-515.8	164.4	10.00	9.96	Niobrara
7,500.0	62.46	182.22	7,363.9	-191.2	-516.9	191.2	10.00	9.96	
7,600.0	72.42	181.35	7,402.2	-283.3	-519.7	283.3	10.00	9.97	
7,668.9	79.29	180.81	7,419.0	-350.1	-521.0	350.1	10.00	9.97	B Chalk
7,700.0	82.39	180.57	7,423.9	-380.8	-521.3	380.8	10.00	9.97	
7,776.3	90.00	180.00	7,429.0	-456.8	-521.7	456.8	10.00	9.97	LP @ 7429' TVD; 90°
7,800.0	90.00	180.00	7,429.0	-480.6	-521.7	480.6	0.00	0.00	
7,900.0	90.00	180.00	7,429.0	-580.6	-521.7	580.6	0.00	0.00	
8,000.0	90.00	180.00	7,429.0	-680.6	-521.7	680.6	0.00	0.00	
8,100.0	90.00	180.00	7,429.0	-780.6	-521.7	780.6	0.00	0.00	
8,200.0	90.00	180.00	7,429.0	-880.6	-521.7	880.6	0.00	0.00	
8,300.0	90.00	180.00	7,429.0	-980.6	-521.7	980.6	0.00	0.00	
8,400.0	90.00	180.00	7,429.0	-1,080.6	-521.7	1,080.6	0.00	0.00	
8,500.0	90.00	180.00	7,429.0	-1,180.6	-521.7	1,180.6	0.00	0.00	
8,600.0	90.00	180.00	7,429.0	-1,280.6	-521.7	1,280.6	0.00	0.00	
8,700.0	90.00	180.00	7,429.0	-1,380.6	-521.7	1,380.6	0.00	0.00	
8,800.0	90.00	180.00	7,429.0	-1,480.6	-521.7	1,480.6	0.00	0.00	
8,900.0	90.00	180.00	7,429.0	-1,580.6	-521.7	1,580.6	0.00	0.00	
9,000.0	90.00	180.00	7,429.0	-1,680.6	-521.7	1,680.6	0.00	0.00	
9,100.0	90.00	180.00	7,429.0	-1,780.6	-521.7	1,780.6	0.00	0.00	
9,200.0	90.00	180.00	7,429.0	-1,880.6	-521.7	1,880.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	Hwy 52 4A-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	180.00	7,429.0	-1,980.6	-521.7	1,980.6	0.00	0.00	
9,400.0	90.00	180.00	7,429.0	-2,080.6	-521.7	2,080.6	0.00	0.00	
9,500.0	90.00	180.00	7,429.0	-2,180.6	-521.7	2,180.6	0.00	0.00	
9,600.0	90.00	180.00	7,429.0	-2,280.6	-521.7	2,280.6	0.00	0.00	
9,700.0	90.00	180.00	7,429.0	-2,380.6	-521.7	2,380.6	0.00	0.00	
9,800.0	90.00	180.00	7,429.0	-2,480.6	-521.7	2,480.6	0.00	0.00	
9,900.0	90.00	180.00	7,429.0	-2,580.6	-521.7	2,580.6	0.00	0.00	
10,000.0	90.00	180.00	7,429.0	-2,680.6	-521.7	2,680.6	0.00	0.00	
10,100.0	90.00	180.00	7,429.0	-2,780.6	-521.7	2,780.6	0.00	0.00	
10,200.0	90.00	180.00	7,429.0	-2,880.6	-521.7	2,880.6	0.00	0.00	
10,300.0	90.00	180.00	7,429.0	-2,980.6	-521.7	2,980.6	0.00	0.00	
10,400.0	90.00	180.00	7,429.0	-3,080.6	-521.7	3,080.6	0.00	0.00	
10,500.0	90.00	180.00	7,429.0	-3,180.6	-521.7	3,180.6	0.00	0.00	
10,600.0	90.00	180.00	7,429.0	-3,280.6	-521.7	3,280.6	0.00	0.00	
10,700.0	90.00	180.00	7,429.0	-3,380.6	-521.7	3,380.6	0.00	0.00	
10,800.0	90.00	180.00	7,429.0	-3,480.6	-521.7	3,480.6	0.00	0.00	
10,900.0	90.00	180.00	7,429.0	-3,580.6	-521.7	3,580.6	0.00	0.00	
11,000.0	90.00	180.00	7,429.0	-3,680.6	-521.7	3,680.6	0.00	0.00	
11,100.0	90.00	180.00	7,429.0	-3,780.6	-521.7	3,780.6	0.00	0.00	
11,200.0	90.00	180.00	7,429.0	-3,880.6	-521.7	3,880.6	0.00	0.00	
11,300.0	90.00	180.00	7,429.0	-3,980.6	-521.7	3,980.6	0.00	0.00	
11,400.0	90.00	180.00	7,429.0	-4,080.6	-521.7	4,080.6	0.00	0.00	
11,500.0	90.00	180.00	7,429.0	-4,180.6	-521.7	4,180.6	0.00	0.00	
11,600.0	90.00	180.00	7,429.0	-4,280.6	-521.7	4,280.6	0.00	0.00	
11,700.0	90.00	180.00	7,429.0	-4,380.6	-521.7	4,380.6	0.00	0.00	
11,800.0	90.00	180.00	7,429.0	-4,480.6	-521.7	4,480.6	0.00	0.00	
11,900.0	90.00	180.00	7,429.0	-4,580.6	-521.7	4,580.6	0.00	0.00	
12,000.0	90.00	180.00	7,429.0	-4,680.6	-521.7	4,680.6	0.00	0.00	
12,100.0	90.00	180.00	7,429.0	-4,780.6	-521.7	4,780.6	0.00	0.00	
12,200.0	90.00	180.00	7,429.0	-4,880.6	-521.7	4,880.6	0.00	0.00	
12,300.0	90.00	180.00	7,429.0	-4,980.6	-521.7	4,980.6	0.00	0.00	
12,400.0	90.00	180.00	7,429.0	-5,080.6	-521.7	5,080.6	0.00	0.00	
12,500.0	90.00	180.00	7,429.0	-5,180.6	-521.7	5,180.6	0.00	0.00	
12,600.0	90.00	180.00	7,429.0	-5,280.6	-521.7	5,280.6	0.00	0.00	
12,700.0	90.00	180.00	7,429.0	-5,380.6	-521.7	5,380.6	0.00	0.00	
12,800.0	90.00	180.00	7,429.0	-5,480.6	-521.7	5,480.6	0.00	0.00	
12,809.3	90.00	180.00	7,429.0	-5,489.8	-521.7	5,489.8	0.00	0.00	TD at 12809.3 - Hwy 52 4A-32H-O268 PBHL

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Hwy 52 4A-32H-O268 P	0.00	0.00	7,429.0	-5,489.8	-521.7	1,270,257.14	3,132,376.77	40.074270	-105.026990
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	Hwy 52 4A-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
330.0	330.0	Fox Hills - BASE				
4,393.4	4,382.0	Sussex				
4,660.2	4,648.0	Sussex Marker				
4,953.0	4,940.0	Shannon				
6,517.6	6,500.0	Teepee Buttes (*if present)				
7,331.0	7,265.0	Sharon Springs				
7,469.4	7,349.0	Niobrara				
7,668.9	7,419.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
637.9	637.5	3.9	-16.3	EOB; Inc=4.38°	
6,865.9	6,847.3	116.0	-478.4	Start build/turn @ 6865' MD	
7,776.3	7,429.0	-456.8	-521.7	LP @ 7429' TVD; 90°	
12,809.3	7,429.0	-5,489.8	-521.7	TD at 12809.3	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File/Hwy 52)

Hwy 52 4A-32H-O268

Hz

Plan #1

Anticollision Report

03 July, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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	7/3/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,809.3	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON 31-32 (EXISTING) - ENCANA WELL - PLAN						Out of range
ANDERSON 32-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 32-7 (EXISTING) - KPK WELL - NO SURVE						Out of range
ANDERSON 41-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 42-32 (EXISTING) - BASIN EXP WELL - NO						Out of range
ANDERSON 4-2-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 6-4-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON TRUST 1 (EXISTING) - KPK WELL - NO S						Out of range
ANDERSON TRUST 1 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 32-2 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST 32-8 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C 1 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA	0.0	0.0	449.7			
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA	1,200.0	1,169.9	487.4	482.1	90.751	SF
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
CANINO 1-X (EXISTING) - ENCANA WELL - NO SURVE						Out of range
CANINO 2 (EXISTING) - HUGHES CW WELL - NO SUR						Out of range
CANINO 3 (EXISTING) - HUGHES CW WELL - NO SUR	200.0	141.0	98.3	97.8	172.746	CC, ES
CANINO 3 (EXISTING) - HUGHES CW WELL - NO SUR	5,600.0	5,526.1	493.4	474.1	25.460	SF
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3A-32H-K268 - Hz - Plan #1						Out of range
File 3B-32H-K268 - Hz - Plan #1						Out of range
File 3C-32H-K268 - Hz - Plan #1						Out of range
File 3D-32H-K268 - Hz - Plan #1						Out of range
File 3E-32H-K268 - Hz - Plan #1						Out of range
File 3F-32H-K268 - Hz - Plan #1						Out of range
File 3G-32H-K268 - Hz - Plan #1						Out of range
File 3H-32H-K268 - Hz - Plan #1	7,799.9	9,113.0	443.9	399.1	9.924	CC
File 3H-32H-K268 - Hz - Plan #1	12,809.7	14,122.4	445.0	251.8	2.303	ES, SF
File 3I-32H-K268 - Hz - Plan #1						Out of range
File 3J-32H-K268 - Hz - Plan #1						Out of range
File 3K-32H-K268 - Hz - Plan #1						Out of range
File 3L-32H-K268 - Hz - Plan #1						Out of range
File 3M-32H-K268 - Hz - Plan #1						Out of range
File 3N-32H-K268 - Hz - Plan #1						Out of range
File 3O-32H-K268 - Hz - Plan #1						Out of range
File 3P-32H-K268 - Hz - Plan #1						Out of range
FOSTER 33-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 43-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 4-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 (EXISTING) - ENCANA WELL - SURVEY	11,860.0	7,676.0	99.6	-2.9	0.972	Level 1, CC, ES, SF
FOSTER 6-4-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5X (EXISTING) - ENCANA WELL - SURVE						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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S32-T2N-R68W (File/Hwy 52)						
FOSTER 6-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 8-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER E UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU						Out of range
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
Hwy 52 4B-32H-O268 - Hz - Plan #1	200.0	199.0	7.8	7.2	12.127	CC
Hwy 52 4B-32H-O268 - Hz - Plan #1	300.0	299.0	8.1	7.1	8.162	ES
Hwy 52 4B-32H-O268 - Hz - Plan #1	12,809.7	13,078.1	450.6	294.8	2.893	SF
Hwy 52 4C-32H-O268 - Hz - Plan #1	200.0	199.0	10.0	9.4	15.527	CC, ES
Hwy 52 4C-32H-O268 - Hz - Plan #1	400.0	399.0	13.4	12.1	10.001	SF
Hwy 52 4D-32H-O268 - Hz - Plan #1	200.0	199.0	16.2	15.5	25.085	CC, ES
Hwy 52 4D-32H-O268 - Hz - Plan #1	500.0	498.9	23.0	21.3	13.598	SF
Hwy 52 4E-32H-O268 - Hz - Plan #1	200.0	199.0	30.0	29.4	46.582	CC, ES
Hwy 52 4E-32H-O268 - Hz - Plan #1	600.0	598.7	43.7	41.7	21.437	SF
Hwy 52 4F-32H-O268 - Hz - Plan #1	200.0	199.0	35.5	34.9	55.138	CC, ES
Hwy 52 4F-32H-O268 - Hz - Plan #1	700.0	698.4	55.9	53.5	23.385	SF
Hwy 52 4G-32H-O268 - Hz - Plan #1	200.0	199.0	40.0	39.4	62.109	CC, ES
Hwy 52 4G-32H-O268 - Hz - Plan #1	900.0	896.5	77.0	73.9	24.991	SF
Hwy 52 4H-32H-O268 - Hz - Plan #1	200.0	199.0	45.4	44.8	70.491	CC, ES
Hwy 52 4H-32H-O268 - Hz - Plan #1	1,000.0	996.0	89.1	85.7	25.937	SF
Hwy 52 4I-32H-O268 - Hz - Plan #1	200.0	198.0	60.0	59.4	93.417	CC
Hwy 52 4I-32H-O268 - Hz - Plan #1	300.0	298.7	60.3	59.3	60.682	ES
Hwy 52 4I-32H-O268 - Hz - Plan #1	7,700.0	7,467.4	114.7	85.1	3.869	SF
Hwy 52 4J-32H-O268 - Hz - Plan #1	200.0	198.0	65.3	64.6	101.632	CC, ES
Hwy 52 4J-32H-O268 - Hz - Plan #1	7,600.0	7,510.5	474.9	446.8	16.899	SF
Hwy 52 4K-32H-O268 - Hz - Plan #1	200.0	198.0	70.0	69.4	108.986	CC, ES
Hwy 52 4K-32H-O268 - Hz - Plan #1	900.0	890.7	118.8	115.7	38.278	SF
Hwy 52 4L-32H-O268 - Hz - Plan #1	200.0	198.0	75.2	74.6	117.144	CC, ES
Hwy 52 4L-32H-O268 - Hz - Plan #1	1,000.0	988.4	133.6	130.2	38.853	SF
Hwy 52 4M-32H-O268 - Hz - Plan #1	200.0	198.0	96.8	96.1	150.689	CC, ES
Hwy 52 4M-32H-O268 - Hz - Plan #1	1,100.0	1,084.7	165.4	161.6	43.858	SF
Hwy 52 4N-32H-O268 - Hz - Plan #1	200.0	198.0	102.6	101.9	159.689	CC, ES
Hwy 52 4N-32H-O268 - Hz - Plan #1	1,200.0	1,182.6	179.5	175.3	43.620	SF
Hwy 52 4O-32H-O268 - Hz - Plan #1	200.0	198.0	105.2	104.5	163.750	CC, ES
Hwy 52 4O-32H-O268 - Hz - Plan #1	1,000.0	980.0	177.6	174.2	52.123	SF
Hwy 52 4P-32H-O268 - Hz - Plan #1	200.0	198.0	110.9	110.3	172.728	CC, ES
Hwy 52 4P-32H-O268 - Hz - Plan #1	1,000.0	971.3	207.0	203.6	61.046	SF
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
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
NELSON E UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO						Out of range

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
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						Out of range
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN	246.1	238.7	447.2	446.4	549.458	CC
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN	300.0	293.2	447.3	446.3	446.594	ES
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN	1,300.0	1,260.4	491.7	487.1	107.406	SF
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN	0.0	0.0	232.2			
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN	100.0	88.6	232.3	232.0	827.189	ES
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN	7,600.0	7,426.7	390.2	362.3	13.982	SF
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	141.7	131.1	451.1	450.6	1,062.984	CC, ES
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	600.0	534.2	488.0	486.1	250.935	SF
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PL	7,855.0	7,802.7	167.9	120.8	3.569	CC, ES, SF
RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
Ray Nelson 7-8-32 - DD - Plan #1	200.0	189.0	456.3	455.7	728.293	CC, ES
Ray Nelson 7-8-32 - DD - Plan #1	900.0	857.8	496.9	493.7	158.743	SF
RAY NELSON 8-4-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-6-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU	0.0	0.0	456.5			
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU	600.0	547.6	489.5	487.4	235.435	SF
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1	7,582.9	7,362.7	407.4	377.5	13.607	CC, ES
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1	7,600.0	7,366.1	407.7	377.7	13.580	SF
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1	9,130.5	7,560.4	353.4	295.0	6.053	CC, ES
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1	9,200.0	7,572.8	359.9	300.3	6.033	SF
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA WELL												Offset Site Error: 0.0 ft	
Survey Program: 41-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	62.52	207.5	398.9	449.7				
100.0	100.0	85.5	85.5	0.1	0.1	62.56	207.4	399.5	450.1	449.8	0.27	1,657.237	
200.0	200.0	184.6	184.6	0.3	0.3	62.62	207.4	400.5	451.0	450.4	0.62	727.842	
300.0	300.0	286.4	286.4	0.5	0.5	139.15	207.1	401.6	452.5	451.6	0.97	465.462	
400.0	400.0	397.8	397.8	0.7	0.7	139.65	204.9	401.9	453.8	452.5	1.35	336.460	
500.0	499.9	505.2	505.0	0.9	0.9	140.75	198.4	401.6	454.3	452.5	1.74	261.543	
600.0	599.7	612.3	611.4	1.1	1.1	142.63	186.6	402.1	454.8	452.6	2.17	209.516	
700.0	699.4	714.7	712.5	1.3	1.5	145.15	170.1	403.0	455.5	452.8	2.66	171.452	
800.0	799.1	805.4	801.6	1.5	1.7	147.61	153.9	404.8	457.5	454.4	3.13	146.022	
900.0	898.8	899.1	893.6	1.7	2.1	150.26	136.5	408.3	462.1	458.4	3.65	126.718	
1,000.0	998.5	995.0	987.5	1.9	2.5	153.09	117.4	412.7	468.2	464.0	4.20	111.360	
1,100.0	1,098.2	1,086.2	1,075.9	2.1	2.9	156.16	95.7	418.1	476.2	471.4	4.80	99.229	
1,200.0	1,197.9	1,169.9	1,156.4	2.3	3.3	159.19	73.6	424.9	487.4	482.1	5.37	90.751 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - CANINO 3 (EXISTING) - HUGHES CW WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7800-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	97.13	-12.2	97.6	114.7					
100.0	100.0	41.0	41.0	0.1	0.1	97.13	-12.2	97.6	98.3	98.1	0.22	446.696		
200.0	200.0	141.0	141.0	0.3	0.2	97.13	-12.2	97.6	98.3	97.8	0.57	172.746 CC, ES		
300.0	300.0	241.0	241.0	0.5	0.4	173.55	-12.2	97.6	99.2	98.3	0.92	108.031		
400.0	400.0	341.0	341.0	0.7	0.6	173.71	-12.2	97.6	101.8	100.5	1.27	80.346		
500.0	499.9	440.9	440.9	0.9	0.8	173.97	-12.2	97.6	106.1	104.5	1.62	65.703		
600.0	599.7	540.7	540.7	1.1	0.9	174.29	-12.2	97.6	112.2	110.2	1.96	57.155		
700.0	699.4	640.4	640.4	1.3	1.1	174.64	-12.2	97.6	119.7	117.4	2.31	51.780		
800.0	799.1	740.1	740.1	1.5	1.3	174.96	-12.2	97.6	127.3	124.6	2.66	47.852		
900.0	898.8	839.8	839.8	1.7	1.5	175.25	-12.2	97.6	134.9	131.9	3.01	44.836		
1,000.0	998.5	939.5	939.5	1.9	1.6	175.50	-12.2	97.6	142.5	139.1	3.36	42.448		
1,100.0	1,098.2	1,039.2	1,039.2	2.1	1.8	175.73	-12.2	97.6	150.1	146.4	3.71	40.511		
1,200.0	1,197.9	1,138.9	1,138.9	2.3	2.0	175.94	-12.2	97.6	157.7	153.7	4.05	38.907		
1,300.0	1,297.6	1,238.6	1,238.6	2.6	2.2	176.13	-12.2	97.6	165.3	160.9	4.40	37.558		
1,400.0	1,397.3	1,338.3	1,338.3	2.8	2.3	176.30	-12.2	97.6	173.0	168.2	4.75	36.408		
1,500.0	1,497.1	1,438.1	1,438.1	3.0	2.5	176.45	-12.2	97.6	180.6	175.5	5.10	35.414		
1,600.0	1,596.8	1,537.8	1,537.8	3.2	2.7	176.60	-12.2	97.6	188.2	182.8	5.45	34.549		
1,700.0	1,696.5	1,637.5	1,637.5	3.4	2.9	176.73	-12.2	97.6	195.8	190.0	5.80	33.787		
1,800.0	1,796.2	1,737.2	1,737.2	3.7	3.0	176.85	-12.2	97.6	203.5	197.3	6.14	33.113		
1,900.0	1,895.9	1,836.9	1,836.9	3.9	3.2	176.97	-12.2	97.6	211.1	204.6	6.49	32.510		
2,000.0	1,995.6	1,936.6	1,936.6	4.1	3.4	177.07	-12.2	97.6	218.7	211.9	6.84	31.969		
2,100.0	2,095.3	2,036.3	2,036.3	4.3	3.6	177.17	-12.2	97.6	226.3	219.1	7.19	31.481		
2,200.0	2,195.0	2,136.0	2,136.0	4.5	3.7	177.26	-12.2	97.6	234.0	226.4	7.54	31.038		
2,300.0	2,294.7	2,235.7	2,235.7	4.7	3.9	177.35	-12.2	97.6	241.6	233.7	7.89	30.634		
2,400.0	2,394.4	2,335.4	2,335.4	5.0	4.1	177.43	-12.2	97.6	249.2	241.0	8.23	30.265		
2,500.0	2,494.1	2,435.1	2,435.1	5.2	4.3	177.51	-12.2	97.6	256.8	248.3	8.58	29.925		
2,600.0	2,593.8	2,534.8	2,534.8	5.4	4.4	177.58	-12.2	97.6	264.5	255.5	8.93	29.612		
2,700.0	2,693.6	2,634.6	2,634.6	5.6	4.6	177.65	-12.2	97.6	272.1	262.8	9.28	29.323		
2,800.0	2,793.3	2,734.3	2,734.3	5.8	4.8	177.71	-12.2	97.6	279.7	270.1	9.63	29.055		
2,900.0	2,893.0	2,834.0	2,834.0	6.1	4.9	177.77	-12.2	97.6	287.4	277.4	9.98	28.805		
3,000.0	2,992.7	2,933.7	2,933.7	6.3	5.1	177.83	-12.2	97.6	295.0	284.7	10.32	28.572		
3,100.0	3,092.4	3,033.4	3,033.4	6.5	5.3	177.88	-12.2	97.6	302.6	292.0	10.67	28.355		
3,200.0	3,192.1	3,133.1	3,133.1	6.7	5.5	177.94	-12.2	97.6	310.3	299.2	11.02	28.151		
3,300.0	3,291.8	3,232.8	3,232.8	6.9	5.6	177.99	-12.2	97.6	317.9	306.5	11.37	27.960		
3,400.0	3,391.5	3,332.5	3,332.5	7.2	5.8	178.03	-12.2	97.6	325.5	313.8	11.72	27.780		
3,500.0	3,491.2	3,432.2	3,432.2	7.4	6.0	178.08	-12.2	97.6	333.2	321.1	12.07	27.610		
3,600.0	3,590.9	3,531.9	3,531.9	7.6	6.2	178.12	-12.2	97.6	340.8	328.4	12.41	27.450		
3,700.0	3,690.6	3,631.6	3,631.6	7.8	6.3	178.16	-12.2	97.6	348.4	335.7	12.76	27.299		
3,800.0	3,790.3	3,731.3	3,731.3	8.0	6.5	178.20	-12.2	97.6	356.0	342.9	13.11	27.156		
3,900.0	3,890.0	3,831.0	3,831.0	8.3	6.7	178.24	-12.2	97.6	363.7	350.2	13.46	27.020		
4,000.0	3,989.8	3,930.8	3,930.8	8.5	6.9	178.28	-12.2	97.6	371.3	357.5	13.81	26.891		
4,100.0	4,089.5	4,030.5	4,030.5	8.7	7.0	178.31	-12.2	97.6	378.9	364.8	14.16	26.769		
4,200.0	4,189.2	4,130.2	4,130.2	8.9	7.2	178.34	-12.2	97.6	386.6	372.1	14.50	26.652		
4,300.0	4,288.9	4,229.9	4,229.9	9.1	7.4	178.38	-12.2	97.6	394.2	379.4	14.85	26.541		
4,400.0	4,388.6	4,329.6	4,329.6	9.4	7.6	178.41	-12.2	97.6	401.8	386.6	15.20	26.435		
4,500.0	4,488.3	4,429.3	4,429.3	9.6	7.7	178.44	-12.2	97.6	409.5	393.9	15.55	26.334		
4,600.0	4,588.0	4,529.0	4,529.0	9.8	7.9	178.47	-12.2	97.6	417.1	401.2	15.90	26.237		
4,700.0	4,687.7	4,628.7	4,628.7	10.0	8.1	178.49	-12.2	97.6	424.7	408.5	16.25	26.144		
4,800.0	4,787.4	4,728.4	4,728.4	10.2	8.3	178.52	-12.2	97.6	432.4	415.8	16.59	26.056		
4,900.0	4,887.1	4,828.1	4,828.1	10.5	8.4	178.55	-12.2	97.6	440.0	423.1	16.94	25.970		
5,000.0	4,986.8	4,927.8	4,927.8	10.7	8.6	178.57	-12.2	97.6	447.6	430.4	17.29	25.889		
5,100.0	5,086.5	5,027.5	5,027.5	10.9	8.8	178.59	-12.2	97.6	455.3	437.6	17.64	25.810		

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - CANINO 3 (EXISTING) - HUGHES CW WELL - NO SURVEYS		Offset Site Error:		0.0 ft
Survey Program:													7800-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)							
5,200.0	5,186.3	5,127.3	5,127.3	11.1	8.9	178.62	-12.2	97.6	462.9	444.9	17.99	25.735					
5,300.0	5,286.0	5,227.0	5,227.0	11.3	9.1	178.64	-12.2	97.6	470.5	452.2	18.34	25.662					
5,400.0	5,385.7	5,326.7	5,326.7	11.6	9.3	178.66	-12.2	97.6	478.2	459.5	18.68	25.592					
5,500.0	5,485.4	5,426.4	5,426.4	11.8	9.5	178.68	-12.2	97.6	485.8	466.8	19.03	25.525					
5,600.0	5,585.1	5,526.1	5,526.1	12.0	9.6	178.70	-12.2	97.6	493.4	474.1	19.38	25.460 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - File 3H-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)				
7,500.0	7,363.9	8,823.7	7,606.0	16.3	31.6	120.98	-191.1	-913.2	483.0	447.1	35.93	13.444		
7,600.0	7,402.2	8,915.9	7,606.0	16.9	33.0	119.65	-283.3	-913.2	459.7	421.0	38.77	11.858		
7,700.0	7,423.9	9,013.4	7,606.0	17.7	34.4	118.60	-380.8	-913.2	447.4	405.6	41.82	10.699		
7,799.9	7,430.6	9,113.0	7,606.0	18.6	35.9	118.15	-480.4	-913.2	443.9	399.1	44.72	9.924 CC		
7,800.0	7,429.0	9,113.2	7,606.0	18.6	35.9	118.33	-480.5	-913.2	444.7	400.0	44.67	9.955		
7,900.0	7,429.0	9,213.2	7,606.0	19.6	37.4	118.32	-580.5	-913.2	444.7	397.6	47.12	9.438		
8,000.0	7,429.0	9,313.2	7,606.0	20.7	38.9	118.32	-680.5	-913.2	444.7	395.1	49.65	8.956		
8,100.0	7,429.0	9,413.2	7,606.0	21.9	40.5	118.32	-780.5	-913.2	444.7	392.4	52.27	8.508		
8,200.0	7,429.0	9,513.2	7,606.0	23.2	42.1	118.32	-880.5	-913.2	444.7	389.8	54.94	8.094		
8,300.0	7,429.0	9,613.2	7,606.0	24.5	43.7	118.32	-980.5	-913.2	444.7	387.1	57.67	7.711		
8,400.0	7,429.0	9,713.2	7,606.0	25.9	45.2	118.32	-1,080.5	-913.2	444.7	384.3	60.44	7.358		
8,500.0	7,429.0	9,813.2	7,606.0	27.3	46.9	118.32	-1,180.5	-913.2	444.7	381.5	63.25	7.031		
8,600.0	7,429.0	9,913.2	7,606.0	28.7	48.5	118.32	-1,280.5	-913.2	444.7	378.7	66.09	6.730		
8,700.0	7,429.0	10,013.2	7,606.0	30.2	50.1	118.32	-1,380.5	-913.2	444.8	375.8	68.95	6.450		
8,800.0	7,429.0	10,113.2	7,606.0	31.8	51.7	118.32	-1,480.5	-913.2	444.8	372.9	71.84	6.191		
8,900.0	7,429.0	10,213.2	7,606.0	33.3	53.4	118.32	-1,580.5	-913.2	444.8	370.0	74.74	5.951		
9,000.0	7,429.0	10,313.2	7,606.0	34.8	55.0	118.32	-1,680.5	-913.3	444.8	367.1	77.66	5.727		
9,100.0	7,429.0	10,413.2	7,606.0	36.4	56.7	118.32	-1,780.5	-913.3	444.8	364.2	80.60	5.518		
9,200.0	7,429.0	10,513.2	7,606.0	38.0	58.4	118.32	-1,880.5	-913.3	444.8	361.2	83.55	5.324		
9,300.0	7,429.0	10,613.2	7,606.0	39.6	60.0	118.32	-1,980.5	-913.3	444.8	358.3	86.51	5.142		
9,400.0	7,429.0	10,713.2	7,606.0	41.2	61.7	118.32	-2,080.5	-913.3	444.8	355.3	89.48	4.971		
9,500.0	7,429.0	10,813.2	7,606.0	42.9	63.4	118.32	-2,180.5	-913.3	444.8	352.3	92.46	4.811		
9,600.0	7,429.0	10,913.2	7,606.0	44.5	65.0	118.32	-2,280.5	-913.3	444.8	349.4	95.45	4.660		
9,700.0	7,429.0	11,013.2	7,606.0	46.2	66.7	118.32	-2,380.5	-913.3	444.8	346.4	98.44	4.519		
9,800.0	7,429.0	11,113.2	7,606.0	47.8	68.4	118.32	-2,480.5	-913.3	444.8	343.4	101.44	4.385		
9,900.0	7,429.0	11,213.2	7,606.0	49.5	70.1	118.32	-2,580.5	-913.3	444.8	340.4	104.45	4.259		
10,000.0	7,429.0	11,313.2	7,606.0	51.1	71.8	118.32	-2,680.5	-913.3	444.8	337.4	107.46	4.139		
10,100.0	7,429.0	11,413.2	7,606.0	52.8	73.5	118.32	-2,780.5	-913.3	444.8	334.4	110.48	4.026		
10,200.0	7,429.0	11,513.2	7,606.0	54.5	75.2	118.32	-2,880.5	-913.3	444.8	331.3	113.50	3.919		
10,300.0	7,429.0	11,613.2	7,606.0	56.2	76.9	118.32	-2,980.5	-913.3	444.8	328.3	116.53	3.818		
10,400.0	7,429.0	11,713.2	7,606.0	57.9	78.6	118.31	-3,080.5	-913.3	444.9	325.3	119.55	3.721		
10,500.0	7,429.0	11,813.2	7,606.0	59.6	80.3	118.31	-3,180.5	-913.4	444.9	322.3	122.59	3.629		
10,600.0	7,429.0	11,913.2	7,606.0	61.2	82.0	118.31	-3,280.5	-913.4	444.9	319.2	125.62	3.541		
10,700.0	7,429.0	12,013.2	7,606.0	62.9	83.7	118.31	-3,380.5	-913.4	444.9	316.2	128.66	3.458		
10,800.0	7,429.0	12,113.2	7,606.0	64.6	85.4	118.31	-3,480.5	-913.4	444.9	313.2	131.70	3.378		
10,900.0	7,429.0	12,213.2	7,606.0	66.3	87.2	118.31	-3,580.5	-913.4	444.9	310.1	134.75	3.302		
11,000.0	7,429.0	12,313.2	7,606.0	68.1	88.9	118.31	-3,680.5	-913.4	444.9	307.1	137.80	3.229		
11,100.0	7,429.0	12,413.2	7,606.0	69.8	90.6	118.31	-3,780.5	-913.4	444.9	304.0	140.84	3.159		
11,200.0	7,429.0	12,513.2	7,606.0	71.5	92.3	118.31	-3,880.5	-913.4	444.9	301.0	143.89	3.092		
11,300.0	7,429.0	12,613.2	7,606.0	73.2	94.0	118.31	-3,980.5	-913.4	444.9	298.0	146.95	3.028		
11,400.0	7,429.0	12,713.2	7,606.0	74.9	95.8	118.31	-4,080.5	-913.4	444.9	294.9	150.00	2.966		
11,500.0	7,429.0	12,813.2	7,606.0	76.6	97.5	118.31	-4,180.5	-913.4	444.9	291.9	153.06	2.907		
11,600.0	7,429.0	12,913.2	7,606.0	78.3	99.2	118.31	-4,280.5	-913.4	444.9	288.8	156.12	2.850		
11,700.0	7,429.0	13,013.2	7,606.0	80.1	100.9	118.31	-4,380.5	-913.4	444.9	285.8	159.18	2.795		
11,800.0	7,429.0	13,113.2	7,606.0	81.8	102.6	118.31	-4,480.5	-913.4	444.9	282.7	162.24	2.743		
11,900.0	7,429.0	13,213.2	7,606.0	83.5	104.4	118.31	-4,580.5	-913.4	444.9	279.6	165.30	2.692		
12,000.0	7,429.0	13,313.2	7,606.0	85.2	106.1	118.31	-4,680.5	-913.5	444.9	276.6	168.36	2.643		
12,100.0	7,429.0	13,413.2	7,606.0	86.9	107.8	118.31	-4,780.5	-913.5	445.0	273.5	171.43	2.596		
12,200.0	7,429.0	13,513.2	7,606.0	88.7	109.6	118.31	-4,880.5	-913.5	445.0	270.5	174.49	2.550		
12,300.0	7,429.0	13,613.2	7,606.0	90.4	111.3	118.31	-4,980.5	-913.5	445.0	267.4	177.56	2.506		
12,400.0	7,429.0	13,713.2	7,606.0	92.1	113.0	118.31	-5,080.5	-913.5	445.0	264.3	180.63	2.463		
12,500.0	7,429.0	13,813.2	7,606.0	93.9	114.8	118.31	-5,180.5	-913.5	445.0	261.3	183.70	2.422		

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - File 3H-32H-K268 - Hz - Plan #1				Offset Site Error:		0.0 ft	
Survey Program:											0-Geolink MWD				Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor	Warning						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis							
12,600.0	7,429.0	13,913.2	7,606.0	95.6	116.5	118.31	-5,280.5	-913.5	445.0	258.2	186.76	2.383						
12,700.0	7,429.0	14,013.2	7,606.0	97.3	118.2	118.31	-5,380.5	-913.5	445.0	255.2	189.83	2.344						
12,800.0	7,429.0	14,113.2	7,606.0	99.0	119.9	118.30	-5,480.5	-913.5	445.0	252.1	192.91	2.307						
12,800.5	7,429.0	14,113.6	7,606.0	99.1	120.0	118.30	-5,481.0	-913.5	445.0	252.1	192.92	2.307						
12,809.7	7,429.0	14,122.4	7,606.0	99.2	120.1	118.30	-5,489.8	-913.5	445.0	251.8	193.20	2.303 ES, SF						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - FOSTER 4-6-5 (EXISTING) - ENCANA WELL - SURVEYS										Offset Site Error:		0.0 ft	
Survey Program: 102-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 +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
11,400.0	7,429.0	7,685.9	7,483.6	74.9	28.7	-95.50	-4,540.4	-422.1	470.5	376.4	94.18	4.996	
11,500.0	7,429.0	7,683.8	7,481.4	76.6	28.7	-94.27	-4,540.4	-422.1	373.4	277.4	96.04	3.889	
11,600.0	7,429.0	7,681.6	7,479.3	78.3	28.7	-93.03	-4,540.4	-422.1	278.4	180.5	97.86	2.844	
11,700.0	7,429.0	7,679.5	7,477.1	80.1	28.7	-91.79	-4,540.5	-422.1	188.4	88.8	99.65	1.891	
11,800.0	7,429.0	7,677.3	7,475.0	81.8	28.7	-90.56	-4,540.5	-422.1	116.2	14.8	101.40	1.146	Level 2
11,860.0	7,429.0	7,676.0	7,473.7	82.8	28.7	-89.81	-4,540.6	-422.1	99.6	-2.9	102.43	0.972	Level 1, CC, ES, SF
11,900.0	7,429.0	7,675.2	7,472.8	83.5	28.7	-89.32	-4,540.6	-422.2	107.3	4.2	103.10	1.041	Level 2
12,000.0	7,429.0	7,673.0	7,470.7	85.2	28.7	-88.09	-4,540.6	-422.2	171.8	67.0	104.76	1.640	
12,100.0	7,429.0	7,670.9	7,468.5	86.9	28.7	-86.87	-4,540.7	-422.2	259.8	153.4	106.38	2.442	
12,200.0	7,429.0	7,668.8	7,466.4	88.7	28.7	-85.65	-4,540.7	-422.2	354.2	246.3	107.95	3.281	
12,300.0	7,429.0	7,666.6	7,464.3	90.4	28.6	-84.43	-4,540.8	-422.2	451.0	341.6	109.47	4.120	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4B-32H-O268 - 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	40.11	6.0	5.0	7.9					
100.0	100.0	99.0	99.0	0.1	0.1	40.11	6.0	5.0	7.8	7.5	0.30	26.455		
200.0	200.0	199.0	199.0	0.3	0.3	40.11	6.0	5.0	7.8	7.2	0.64	12.127 CC		
300.0	300.0	299.0	299.0	0.5	0.5	115.98	6.5	4.3	8.1	7.1	0.99	8.162 ES		
400.0	400.0	399.0	399.0	0.7	0.7	115.06	7.9	2.3	9.1	7.7	1.35	6.697		
500.0	499.9	499.0	498.9	0.9	0.9	120.72	9.5	-0.1	10.8	9.0	1.72	6.270		
600.0	599.7	598.9	598.8	1.1	1.0	130.83	11.2	-2.5	13.6	11.5	2.08	6.542		
700.0	699.4	698.8	698.6	1.3	1.2	140.40	12.8	-4.9	17.8	15.4	2.44	7.299		
800.0	799.1	798.7	798.5	1.5	1.4	146.41	14.5	-7.2	22.4	19.6	2.79	8.017		
900.0	898.8	898.6	898.3	1.7	1.6	150.34	16.1	-9.6	27.1	24.0	3.15	8.627		
1,000.0	998.5	998.4	998.1	1.9	1.8	153.10	17.8	-12.0	32.0	28.5	3.50	9.141		
1,100.0	1,098.2	1,098.3	1,098.0	2.1	1.9	155.12	19.4	-14.4	36.9	33.0	3.85	9.574		
1,200.0	1,197.9	1,198.2	1,197.8	2.3	2.1	156.67	21.1	-16.8	41.8	37.6	4.20	9.944		
1,300.0	1,297.6	1,298.0	1,297.6	2.6	2.3	157.90	22.7	-19.1	46.8	42.2	4.56	10.261		
1,400.0	1,397.3	1,397.9	1,397.5	2.8	2.5	158.88	24.4	-21.5	51.7	46.8	4.91	10.537		
1,500.0	1,497.1	1,497.8	1,497.3	3.0	2.7	159.70	26.0	-23.9	56.7	51.5	5.26	10.778		
1,600.0	1,596.8	1,597.7	1,597.1	3.2	2.8	160.38	27.7	-26.3	61.7	56.1	5.62	10.990		
1,700.0	1,696.5	1,697.5	1,697.0	3.4	3.0	160.96	29.3	-28.6	66.7	60.8	5.97	11.179		
1,800.0	1,796.2	1,797.4	1,796.8	3.7	3.2	161.46	31.0	-31.0	71.7	65.4	6.32	11.347		
1,900.0	1,895.9	1,897.3	1,896.6	3.9	3.4	161.89	32.6	-33.4	76.8	70.1	6.68	11.498		
2,000.0	1,995.6	1,997.2	1,996.4	4.1	3.6	162.27	34.3	-35.8	81.8	74.8	7.03	11.635		
2,100.0	2,095.3	2,097.0	2,096.3	4.3	3.8	162.61	35.9	-38.2	86.8	79.4	7.38	11.758		
2,200.0	2,195.0	2,196.9	2,196.1	4.5	3.9	162.91	37.6	-40.5	91.8	84.1	7.74	11.871		
2,300.0	2,294.7	2,296.8	2,295.9	4.7	4.1	163.18	39.2	-42.9	96.9	88.8	8.09	11.975		
2,400.0	2,394.4	2,396.6	2,395.8	5.0	4.3	163.42	40.9	-45.3	101.9	93.4	8.44	12.070		
2,500.0	2,494.1	2,496.5	2,495.6	5.2	4.5	163.64	42.5	-47.7	106.9	98.1	8.79	12.157		
2,600.0	2,593.8	2,596.4	2,595.4	5.4	4.7	163.84	44.2	-50.0	112.0	102.8	9.15	12.238		
2,700.0	2,693.6	2,696.3	2,695.3	5.6	4.8	164.02	45.8	-52.4	117.0	107.5	9.50	12.313		
2,800.0	2,793.3	2,796.1	2,795.1	5.8	5.0	164.19	47.5	-54.8	122.0	112.2	9.85	12.383		
2,900.0	2,893.0	2,896.0	2,894.9	6.1	5.2	164.34	49.1	-57.2	127.1	116.8	10.21	12.448		
3,000.0	2,992.7	2,995.9	2,994.7	6.3	5.4	164.48	50.8	-59.6	132.1	121.5	10.56	12.508		
3,100.0	3,092.4	3,095.7	3,094.6	6.5	5.6	164.62	52.4	-61.9	137.1	126.2	10.91	12.565		
3,200.0	3,192.1	3,195.6	3,194.4	6.7	5.7	164.74	54.1	-64.3	142.2	130.9	11.27	12.619		
3,300.0	3,291.8	3,295.5	3,294.2	6.9	5.9	164.85	55.7	-66.7	147.2	135.6	11.62	12.669		
3,400.0	3,391.5	3,395.4	3,394.1	7.2	6.1	164.96	57.4	-69.1	152.2	140.3	11.97	12.716		
3,500.0	3,491.2	3,495.2	3,493.9	7.4	6.3	165.06	59.0	-71.4	157.3	145.0	12.33	12.761		
3,600.0	3,590.9	3,595.1	3,593.7	7.6	6.5	165.15	60.6	-73.8	162.3	149.6	12.68	12.803		
3,700.0	3,690.6	3,695.0	3,693.6	7.8	6.7	165.24	62.3	-76.2	167.4	154.3	13.03	12.843		
3,800.0	3,790.3	3,794.9	3,793.4	8.0	6.8	165.32	63.9	-78.6	172.4	159.0	13.39	12.880		
3,900.0	3,890.0	3,894.7	3,893.2	8.3	7.0	165.40	65.6	-81.0	177.4	163.7	13.74	12.916		
4,000.0	3,989.8	3,994.6	3,993.1	8.5	7.2	165.48	67.2	-83.3	182.5	168.4	14.09	12.950		
4,100.0	4,089.5	4,094.5	4,092.9	8.7	7.4	165.55	68.9	-85.7	187.5	173.1	14.44	12.983		
4,200.0	4,189.2	4,194.3	4,192.7	8.9	7.6	165.61	70.5	-88.1	192.6	177.8	14.80	13.014		
4,300.0	4,288.9	4,294.2	4,292.5	9.1	7.7	165.68	72.2	-90.5	197.6	182.5	15.15	13.043		
4,400.0	4,388.6	4,394.1	4,392.4	9.4	7.9	165.73	73.8	-92.8	202.7	187.2	15.50	13.071		
4,500.0	4,488.3	4,494.0	4,492.2	9.6	8.1	165.79	75.5	-95.2	207.7	191.8	15.86	13.098		
4,600.0	4,588.0	4,593.8	4,592.0	9.8	8.3	165.85	77.1	-97.6	212.7	196.5	16.21	13.124		
4,700.0	4,687.7	4,693.7	4,691.9	10.0	8.5	165.90	78.8	-100.0	217.8	201.2	16.56	13.149		
4,800.0	4,787.4	4,793.6	4,791.7	10.2	8.7	165.95	80.4	-102.4	222.8	205.9	16.92	13.172		
4,900.0	4,887.1	4,893.5	4,891.5	10.5	8.8	165.99	82.1	-104.7	227.9	210.6	17.27	13.195		
5,000.0	4,986.8	4,993.3	4,991.4	10.7	9.0	166.04	83.7	-107.1	232.9	215.3	17.62	13.217		
5,100.0	5,086.5	5,093.2	5,091.2	10.9	9.2	166.08	85.4	-109.5	238.0	220.0	17.98	13.238		

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4B-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,186.3	5,193.1	5,191.0	11.1	9.4	166.12	87.0	-111.9	243.0	224.7	18.33	13.258		
5,300.0	5,286.0	5,292.9	5,290.9	11.3	9.6	166.16	88.7	-114.2	248.0	229.4	18.68	13.277		
5,400.0	5,385.7	5,392.8	5,390.7	11.6	9.7	166.20	90.3	-116.6	253.1	234.1	19.04	13.296		
5,500.0	5,485.4	5,492.7	5,490.5	11.8	9.9	166.24	92.0	-119.0	258.1	238.7	19.39	13.314		
5,600.0	5,585.1	5,592.6	5,590.3	12.0	10.1	166.27	93.6	-121.4	263.2	243.4	19.74	13.331		
5,700.0	5,684.8	5,692.4	5,690.2	12.2	10.3	166.31	95.3	-123.8	268.2	248.1	20.09	13.348		
5,800.0	5,784.5	5,792.3	5,790.0	12.4	10.5	166.34	96.9	-126.1	273.3	252.8	20.45	13.364		
5,900.0	5,884.2	5,892.2	5,889.8	12.7	10.6	166.37	98.6	-128.5	278.3	257.5	20.80	13.380		
6,000.0	5,983.9	5,992.1	5,989.7	12.9	10.8	166.40	100.2	-130.9	283.4	262.2	21.15	13.395		
6,100.0	6,083.6	6,091.9	6,089.5	13.1	11.0	166.43	101.9	-133.3	288.4	266.9	21.51	13.410		
6,200.0	6,183.3	6,191.8	6,189.3	13.3	11.2	166.46	103.5	-135.6	293.5	271.6	21.86	13.424		
6,300.0	6,283.0	6,291.7	6,289.2	13.5	11.4	166.49	105.2	-138.0	298.5	276.3	22.21	13.437		
6,400.0	6,382.8	6,391.5	6,389.0	13.8	11.6	166.51	106.8	-140.4	303.5	281.0	22.57	13.451		
6,500.0	6,482.5	6,491.4	6,488.8	14.0	11.7	166.54	108.5	-142.8	308.6	285.7	22.92	13.464		
6,600.0	6,582.2	6,591.3	6,588.7	14.2	11.9	166.56	110.1	-145.2	313.6	290.4	23.27	13.476		
6,700.0	6,681.9	6,691.2	6,688.5	14.4	12.1	166.59	111.8	-147.5	318.7	295.0	23.63	13.488		
6,800.0	6,781.6	6,791.0	6,788.3	14.6	12.3	166.61	113.4	-149.9	323.7	299.7	23.98	13.500		
6,900.0	6,881.3	6,890.9	6,888.1	14.8	12.5	-150.68	115.1	-152.3	328.8	304.4	24.33	13.514		
7,000.0	6,980.1	6,989.6	6,986.8	15.0	12.6	-110.85	116.7	-154.6	334.0	309.4	24.68	13.534		
7,100.0	7,075.1	7,084.3	7,081.4	15.2	12.8	-106.98	118.2	-156.9	341.6	316.6	25.02	13.652		
7,200.0	7,163.6	7,179.6	7,176.7	15.3	13.0	-109.55	117.9	-159.2	354.9	329.7	25.24	14.064		
7,300.0	7,242.7	7,289.8	7,285.2	15.6	13.1	-113.93	100.2	-161.7	373.6	348.4	25.19	14.832		
7,400.0	7,310.2	7,414.2	7,401.2	15.9	13.3	-118.53	55.7	-164.5	395.4	370.5	24.89	15.884		
7,500.0	7,363.9	7,556.7	7,518.5	16.3	13.5	-122.84	-24.5	-167.3	417.4	392.8	24.58	16.983		
7,600.0	7,402.2	7,719.8	7,623.8	16.9	14.1	-126.39	-148.3	-169.8	436.1	411.4	24.71	17.653		
7,700.0	7,423.9	7,901.8	7,694.9	17.7	15.3	-128.60	-314.9	-171.5	448.0	422.1	25.87	17.314		
7,800.0	7,429.0	8,068.8	7,712.0	18.6	16.9	-129.07	-480.6	-171.9	450.6	422.5	28.08	16.044		
7,900.0	7,429.0	8,168.8	7,712.0	19.6	18.1	-129.07	-580.6	-171.9	450.6	420.7	29.84	15.099		
8,000.0	7,429.0	8,268.8	7,712.0	20.7	19.3	-129.07	-680.6	-171.9	450.6	418.8	31.73	14.199		
8,100.0	7,429.0	8,368.8	7,712.0	21.9	20.6	-129.07	-780.6	-171.9	450.6	416.8	33.74	13.355		
8,200.0	7,429.0	8,468.8	7,712.0	23.2	21.9	-129.07	-880.6	-171.9	450.6	414.7	35.84	12.571		
8,300.0	7,429.0	8,568.8	7,712.0	24.5	23.3	-129.07	-980.6	-171.9	450.6	412.6	38.03	11.849		
8,400.0	7,429.0	8,668.8	7,712.0	25.9	24.8	-129.07	-1,080.6	-171.9	450.6	410.3	40.28	11.187		
8,500.0	7,429.0	8,768.8	7,712.0	27.3	26.3	-129.07	-1,180.6	-171.9	450.6	408.0	42.59	10.581		
8,600.0	7,429.0	8,868.8	7,712.0	28.7	27.8	-129.07	-1,280.6	-171.9	450.6	405.6	44.94	10.026		
8,700.0	7,429.0	8,968.8	7,712.0	30.2	29.3	-129.07	-1,380.6	-171.9	450.6	403.2	47.34	9.518		
8,800.0	7,429.0	9,068.8	7,712.0	31.8	30.9	-129.07	-1,480.6	-171.9	450.6	400.8	49.77	9.053		
8,900.0	7,429.0	9,168.8	7,712.0	33.3	32.5	-129.07	-1,580.6	-171.9	450.6	398.3	52.23	8.627		
9,000.0	7,429.0	9,268.8	7,712.0	34.8	34.1	-129.07	-1,680.6	-171.9	450.6	395.9	54.72	8.235		
9,100.0	7,429.0	9,368.8	7,712.0	36.4	35.7	-129.07	-1,780.6	-171.9	450.6	393.4	57.23	7.873		
9,200.0	7,429.0	9,468.8	7,712.0	38.0	37.3	-129.07	-1,880.6	-171.9	450.6	390.8	59.76	7.540		
9,300.0	7,429.0	9,568.8	7,712.0	39.6	39.0	-129.07	-1,980.6	-171.9	450.6	388.3	62.31	7.232		
9,400.0	7,429.0	9,668.8	7,712.0	41.2	40.6	-129.07	-2,080.6	-171.9	450.6	385.7	64.87	6.946		
9,500.0	7,429.0	9,768.8	7,712.0	42.9	42.3	-129.07	-2,180.6	-171.9	450.6	383.1	67.44	6.681		
9,600.0	7,429.0	9,868.8	7,712.0	44.5	43.9	-129.07	-2,280.6	-171.9	450.6	380.5	70.03	6.434		
9,700.0	7,429.0	9,968.8	7,712.0	46.2	45.6	-129.07	-2,380.6	-171.9	450.6	378.0	72.63	6.204		
9,800.0	7,429.0	10,068.8	7,712.0	47.8	47.3	-129.07	-2,480.6	-171.9	450.6	375.3	75.24	5.989		
9,900.0	7,429.0	10,168.8	7,712.0	49.5	49.0	-129.07	-2,580.6	-171.9	450.6	372.7	77.86	5.787		
10,000.0	7,429.0	10,268.8	7,712.0	51.1	50.7	-129.07	-2,680.6	-171.9	450.6	370.1	80.48	5.599		
10,100.0	7,429.0	10,368.8	7,712.0	52.8	52.4	-129.07	-2,780.6	-171.9	450.6	367.5	83.11	5.421		
10,200.0	7,429.0	10,468.8	7,712.0	54.5	54.1	-129.07	-2,880.6	-171.9	450.6	364.8	85.75	5.255		
10,300.0	7,429.0	10,568.8	7,712.0	56.2	55.8	-129.07	-2,980.6	-171.9	450.6	362.2	88.39	5.097		

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4B-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,400.0	7,429.0	10,668.8	7,712.0	57.9	57.5	-129.07	-3,080.6	-171.9	450.6	359.5	91.04	4.949		
10,500.0	7,429.0	10,768.8	7,712.0	59.6	59.2	-129.07	-3,180.6	-171.9	450.6	356.9	93.70	4.809		
10,600.0	7,429.0	10,868.8	7,712.0	61.2	60.9	-129.07	-3,280.6	-171.9	450.6	354.2	96.36	4.676		
10,700.0	7,429.0	10,968.8	7,712.0	62.9	62.6	-129.07	-3,380.6	-171.9	450.6	351.6	99.02	4.550		
10,800.0	7,429.0	11,068.8	7,712.0	64.6	64.3	-129.07	-3,480.6	-171.9	450.6	348.9	101.69	4.431		
10,900.0	7,429.0	11,168.8	7,712.0	66.3	66.0	-129.07	-3,580.6	-171.9	450.6	346.2	104.36	4.318		
11,000.0	7,429.0	11,268.8	7,712.0	68.1	67.7	-129.07	-3,680.6	-171.9	450.6	343.5	107.03	4.210		
11,100.0	7,429.0	11,368.8	7,712.0	69.8	69.5	-129.07	-3,780.6	-171.9	450.6	340.9	109.71	4.107		
11,200.0	7,429.0	11,468.8	7,712.0	71.5	71.2	-129.07	-3,880.6	-171.9	450.6	338.2	112.39	4.009		
11,300.0	7,429.0	11,568.8	7,712.0	73.2	72.9	-129.07	-3,980.6	-171.9	450.6	335.5	115.07	3.916		
11,400.0	7,429.0	11,668.8	7,712.0	74.9	74.6	-129.07	-4,080.6	-171.9	450.6	332.8	117.75	3.826		
11,500.0	7,429.0	11,768.8	7,712.0	76.6	76.4	-129.07	-4,180.6	-171.9	450.6	330.1	120.44	3.741		
11,600.0	7,429.0	11,868.8	7,712.0	78.3	78.1	-129.07	-4,280.6	-171.9	450.6	327.5	123.13	3.659		
11,700.0	7,429.0	11,968.8	7,712.0	80.1	79.8	-129.07	-4,380.6	-171.9	450.6	324.8	125.82	3.581		
11,800.0	7,429.0	12,068.8	7,712.0	81.8	81.5	-129.07	-4,480.6	-171.9	450.6	322.1	128.51	3.506		
11,900.0	7,429.0	12,168.8	7,712.0	83.5	83.3	-129.07	-4,580.6	-171.9	450.6	319.4	131.21	3.434		
12,000.0	7,429.0	12,268.8	7,712.0	85.2	85.0	-129.07	-4,680.6	-171.9	450.6	316.7	133.90	3.365		
12,100.0	7,429.0	12,368.8	7,712.0	86.9	86.7	-129.07	-4,780.6	-171.9	450.6	314.0	136.60	3.299		
12,200.0	7,429.0	12,468.8	7,712.0	88.7	88.5	-129.07	-4,880.6	-171.9	450.6	311.3	139.30	3.235		
12,300.0	7,429.0	12,568.8	7,712.0	90.4	90.2	-129.07	-4,980.6	-171.9	450.6	308.6	142.00	3.173		
12,400.0	7,429.0	12,668.8	7,712.0	92.1	91.9	-129.07	-5,080.6	-171.9	450.6	305.9	144.70	3.114		
12,500.0	7,429.0	12,768.8	7,712.0	93.9	93.7	-129.07	-5,180.6	-171.9	450.6	303.2	147.40	3.057		
12,600.0	7,429.0	12,868.8	7,712.0	95.6	95.4	-129.07	-5,280.6	-171.9	450.6	300.5	150.11	3.002		
12,700.0	7,429.0	12,968.8	7,712.0	97.3	97.1	-129.07	-5,380.6	-171.9	450.6	297.8	152.81	2.949		
12,800.0	7,429.0	13,068.8	7,712.0	99.0	98.9	-129.07	-5,480.6	-171.9	450.6	295.1	155.52	2.897		
12,800.8	7,429.0	13,069.6	7,712.0	99.1	98.9	-129.07	-5,481.3	-171.9	450.6	295.0	155.54	2.897		
12,809.7	7,429.0	13,078.1	7,712.0	99.2	99.0	-129.07	-5,489.8	-171.9	450.6	294.8	155.78	2.893 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4C-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.31	-0.1	10.0	10.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.31	-0.1	10.0	10.0	9.7	0.30	33.873		
200.0	200.0	199.0	199.0	0.3	0.3	90.31	-0.1	10.0	10.0	9.4	0.64	15.527 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	167.73	-0.1	10.0	10.9	9.9	0.99	10.927		
400.0	400.0	399.0	399.0	0.7	0.7	170.10	-0.1	10.0	13.4	12.1	1.34	10.001 SF		
500.0	499.9	498.6	498.6	0.9	0.8	170.98	0.4	10.7	18.4	16.7	1.69	10.906		
600.0	599.7	598.1	598.1	1.1	1.0	170.07	1.6	12.9	26.5	24.5	2.04	12.996		
700.0	699.4	697.6	697.5	1.3	1.2	169.71	2.9	15.3	36.2	33.8	2.39	15.161		
800.0	799.1	797.1	797.0	1.5	1.4	169.54	4.3	17.7	46.0	43.3	2.74	16.812		
900.0	898.8	896.7	896.5	1.7	1.6	169.43	5.6	20.1	55.9	52.8	3.09	18.087		
1,000.0	998.5	996.2	996.0	1.9	1.7	169.35	7.0	22.5	65.7	62.3	3.44	19.102		
1,100.0	1,098.2	1,095.7	1,095.5	2.1	1.9	169.29	8.3	24.9	75.6	71.8	3.79	19.928		
1,200.0	1,197.9	1,195.2	1,194.9	2.3	2.1	169.25	9.7	27.3	85.4	81.2	4.14	20.613		
1,300.0	1,297.6	1,294.7	1,294.4	2.6	2.3	169.21	11.0	29.7	95.2	90.7	4.49	21.191		
1,400.0	1,397.3	1,394.2	1,393.9	2.8	2.5	169.18	12.4	32.1	105.1	100.2	4.84	21.686		
1,500.0	1,497.1	1,493.7	1,493.4	3.0	2.6	169.16	13.8	34.5	114.9	109.7	5.20	22.113		
1,600.0	1,596.8	1,593.3	1,592.8	3.2	2.8	169.14	15.1	36.9	124.7	119.2	5.55	22.486		
1,700.0	1,696.5	1,692.8	1,692.3	3.4	3.0	169.12	16.5	39.3	134.6	128.7	5.90	22.814		
1,800.0	1,796.2	1,792.3	1,791.8	3.7	3.2	169.11	17.8	41.7	144.4	138.2	6.25	23.105		
1,900.0	1,895.9	1,891.8	1,891.3	3.9	3.4	169.10	19.2	44.1	154.2	147.6	6.60	23.366		
2,000.0	1,995.6	1,991.3	1,990.7	4.1	3.5	169.08	20.5	46.5	164.1	157.1	6.95	23.600		
2,100.0	2,095.3	2,090.8	2,090.2	4.3	3.7	169.07	21.9	48.9	173.9	166.6	7.30	23.811		
2,200.0	2,195.0	2,190.3	2,189.7	4.5	3.9	169.07	23.2	51.3	183.8	176.1	7.66	24.003		
2,300.0	2,294.7	2,289.9	2,289.2	4.7	4.1	169.06	24.6	53.7	193.6	185.6	8.01	24.178		
2,400.0	2,394.4	2,389.4	2,388.7	5.0	4.3	169.05	26.0	56.1	203.4	195.1	8.36	24.338		
2,500.0	2,494.1	2,488.9	2,488.1	5.2	4.4	169.04	27.3	58.5	213.3	204.6	8.71	24.486		
2,600.0	2,593.8	2,588.4	2,587.6	5.4	4.6	169.04	28.7	60.9	223.1	214.0	9.06	24.622		
2,700.0	2,693.6	2,687.9	2,687.1	5.6	4.8	169.03	30.0	63.3	232.9	223.5	9.41	24.748		
2,800.0	2,793.3	2,787.4	2,786.6	5.8	5.0	169.03	31.4	65.7	242.8	233.0	9.76	24.864		
2,900.0	2,893.0	2,887.0	2,886.0	6.1	5.2	169.02	32.7	68.1	252.6	242.5	10.12	24.973		
3,000.0	2,992.7	2,986.5	2,985.5	6.3	5.3	169.02	34.1	70.5	262.5	252.0	10.47	25.074		
3,100.0	3,092.4	3,086.0	3,085.0	6.5	5.5	169.01	35.4	72.9	272.3	261.5	10.82	25.169		
3,200.0	3,192.1	3,185.5	3,184.5	6.7	5.7	169.01	36.8	75.4	282.1	271.0	11.17	25.257		
3,300.0	3,291.8	3,285.0	3,283.9	6.9	5.9	169.01	38.2	77.8	292.0	280.4	11.52	25.341		
3,400.0	3,391.5	3,384.5	3,383.4	7.2	6.1	169.00	39.5	80.2	301.8	289.9	11.87	25.419		
3,500.0	3,491.2	3,484.0	3,482.9	7.4	6.2	169.00	40.9	82.6	311.6	299.4	12.22	25.493		
3,600.0	3,590.9	3,583.6	3,582.4	7.6	6.4	169.00	42.2	85.0	321.5	308.9	12.58	25.563		
3,700.0	3,690.6	3,683.1	3,681.9	7.8	6.6	169.00	43.6	87.4	331.3	318.4	12.93	25.629		
3,800.0	3,790.3	3,782.6	3,781.3	8.0	6.8	168.99	44.9	89.8	341.1	327.9	13.28	25.691		
3,900.0	3,890.0	3,882.1	3,880.8	8.3	7.0	168.99	46.3	92.2	351.0	337.4	13.63	25.750		
4,000.0	3,989.8	3,981.6	3,980.3	8.5	7.1	168.99	47.6	94.6	360.8	346.8	13.98	25.806		
4,100.0	4,089.5	4,081.1	4,079.8	8.7	7.3	168.99	49.0	97.0	370.7	356.3	14.33	25.860		
4,200.0	4,189.2	4,180.6	4,179.2	8.9	7.5	168.98	50.3	99.4	380.5	365.8	14.68	25.911		
4,300.0	4,288.9	4,280.2	4,278.7	9.1	7.7	168.98	51.7	101.8	390.3	375.3	15.04	25.959		
4,400.0	4,388.6	4,379.7	4,378.2	9.4	7.9	168.98	53.1	104.2	400.2	384.8	15.39	26.006		
4,500.0	4,488.3	4,479.2	4,477.7	9.6	8.0	168.98	54.4	106.6	410.0	394.3	15.74	26.050		
4,600.0	4,588.0	4,578.7	4,577.1	9.8	8.2	168.98	55.8	109.0	419.8	403.8	16.09	26.092		
4,700.0	4,687.7	4,678.2	4,676.6	10.0	8.4	168.98	57.1	111.4	429.7	413.2	16.44	26.133		
4,800.0	4,787.4	4,777.7	4,776.1	10.2	8.6	168.97	58.5	113.8	439.5	422.7	16.79	26.171		
4,900.0	4,887.1	4,877.3	4,875.6	10.5	8.8	168.97	59.8	116.2	449.4	432.2	17.15	26.209		
5,000.0	4,986.8	4,976.8	4,975.0	10.7	8.9	168.97	61.2	118.6	459.2	441.7	17.50	26.244		
5,100.0	5,086.5	5,076.3	5,074.5	10.9	9.1	168.97	62.5	121.0	469.0	451.2	17.85	26.279		

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4C-32H-O268 - Hz - Plan #1		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
5,200.0	5,186.3	5,175.8	5,174.0	11.1	9.3	168.97	63.9	123.4	478.9	460.7	18.20	26.311					
5,300.0	5,286.0	5,275.3	5,273.5	11.3	9.5	168.97	65.3	125.8	488.7	470.2	18.55	26.343					
5,400.0	5,385.7	5,374.8	5,373.0	11.6	9.7	168.97	66.6	128.2	498.5	479.6	18.90	26.374					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4D-32H-O268 - 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	68.51	5.9	15.0	16.2					
100.0	100.0	99.0	99.0	0.1	0.1	68.51	5.9	15.0	16.2	15.9	0.30	54.723		
200.0	200.0	199.0	199.0	0.3	0.3	68.51	5.9	15.0	16.2	15.5	0.64	25.085 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	146.57	5.9	15.0	16.9	15.9	0.99	16.990		
400.0	400.0	399.0	399.0	0.7	0.7	150.89	5.9	15.0	19.1	17.8	1.34	14.231		
500.0	499.9	498.9	498.9	0.9	0.8	156.16	5.9	15.0	23.0	21.3	1.69	13.598 SF		
600.0	599.7	598.2	598.2	1.1	1.0	160.81	6.1	15.8	29.6	27.5	2.04	14.475		
700.0	699.4	697.1	697.1	1.3	1.2	163.86	6.7	18.3	39.2	36.9	2.39	16.426		
800.0	799.1	795.7	795.5	1.5	1.4	165.31	7.7	22.4	50.8	48.1	2.74	18.558		
900.0	898.8	893.8	893.5	1.7	1.6	165.86	9.1	28.2	64.0	60.9	3.09	20.753		
1,000.0	998.5	992.3	991.8	1.9	1.8	165.99	10.8	35.3	78.6	75.2	3.43	22.884		
1,100.0	1,098.2	1,091.3	1,090.4	2.1	2.0	166.06	12.6	42.5	93.3	89.5	3.79	24.646		
1,200.0	1,197.9	1,190.2	1,189.0	2.3	2.2	166.12	14.3	49.7	108.0	103.8	4.14	26.109		
1,300.0	1,297.6	1,289.1	1,287.7	2.6	2.4	166.16	16.1	56.9	122.7	118.2	4.49	27.341		
1,400.0	1,397.3	1,388.0	1,386.3	2.8	2.6	166.19	17.8	64.2	137.4	132.5	4.84	28.395		
1,500.0	1,497.1	1,486.9	1,484.9	3.0	2.8	166.21	19.6	71.4	152.0	146.9	5.19	29.305		
1,600.0	1,596.8	1,585.8	1,583.6	3.2	3.0	166.23	21.3	78.6	166.7	161.2	5.54	30.099		
1,700.0	1,696.5	1,684.8	1,682.2	3.4	3.2	166.25	23.1	85.9	181.4	175.5	5.89	30.799		
1,800.0	1,796.2	1,783.7	1,780.9	3.7	3.4	166.27	24.8	93.1	196.1	189.9	6.24	31.419		
1,900.0	1,895.9	1,882.6	1,879.5	3.9	3.6	166.28	26.6	100.3	210.8	204.2	6.59	31.973		
2,000.0	1,995.6	1,981.5	1,978.1	4.1	3.8	166.29	28.3	107.5	225.5	218.5	6.94	32.471		
2,100.0	2,095.3	2,080.4	2,076.8	4.3	4.1	166.30	30.1	114.8	240.2	232.9	7.30	32.921		
2,200.0	2,195.0	2,179.3	2,175.4	4.5	4.3	166.31	31.8	122.0	254.9	247.2	7.65	33.329		
2,300.0	2,294.7	2,278.2	2,274.0	4.7	4.5	166.32	33.6	129.2	269.5	261.5	8.00	33.701		
2,400.0	2,394.4	2,377.2	2,372.7	5.0	4.7	166.32	35.3	136.5	284.2	275.9	8.35	34.042		
2,500.0	2,494.1	2,476.1	2,471.3	5.2	4.9	166.33	37.1	143.7	298.9	290.2	8.70	34.355		
2,600.0	2,593.8	2,575.0	2,569.9	5.4	5.1	166.34	38.8	150.9	313.6	304.6	9.05	34.644		
2,700.0	2,693.6	2,673.9	2,668.6	5.6	5.3	166.34	40.6	158.1	328.3	318.9	9.40	34.911		
2,800.0	2,793.3	2,772.8	2,767.2	5.8	5.6	166.35	42.3	165.4	343.0	333.2	9.76	35.159		
2,900.0	2,893.0	2,871.7	2,865.8	6.1	5.8	166.35	44.1	172.6	357.7	347.6	10.11	35.390		
3,000.0	2,992.7	2,970.7	2,964.5	6.3	6.0	166.35	45.8	179.8	372.4	361.9	10.46	35.605		
3,100.0	3,092.4	3,069.6	3,063.1	6.5	6.2	166.36	47.5	187.0	387.0	376.2	10.81	35.806		
3,200.0	3,192.1	3,168.5	3,161.7	6.7	6.4	166.36	49.3	194.3	401.7	390.6	11.16	35.994		
3,300.0	3,291.8	3,267.4	3,260.4	6.9	6.6	166.36	51.0	201.5	416.4	404.9	11.51	36.171		
3,400.0	3,391.5	3,366.3	3,359.0	7.2	6.8	166.37	52.8	208.7	431.1	419.2	11.86	36.337		
3,500.0	3,491.2	3,465.2	3,457.7	7.4	7.1	166.37	54.5	216.0	445.8	433.6	12.22	36.494		
3,600.0	3,590.9	3,564.1	3,556.3	7.6	7.3	166.37	56.3	223.2	460.5	447.9	12.57	36.642		
3,700.0	3,690.6	3,663.1	3,654.9	7.8	7.5	166.38	58.0	230.4	475.2	462.3	12.92	36.782		
3,800.0	3,790.3	3,762.0	3,753.6	8.0	7.7	166.38	59.8	237.6	489.9	476.6	13.27	36.914		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4E-32H-O268 - 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	90.31	-0.2	30.0	30.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.31	-0.2	30.0	30.0	29.7	0.30	101.618		
200.0	200.0	199.0	199.0	0.3	0.3	90.31	-0.2	30.0	30.0	29.4	0.64	46.582 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	167.05	-0.2	30.0	30.8	29.9	0.99	31.066		
400.0	400.0	399.0	399.0	0.7	0.7	168.05	-0.2	30.0	33.4	32.1	1.34	24.894		
500.0	499.9	498.9	498.9	0.9	0.8	169.41	-0.2	30.0	37.7	36.0	1.69	22.291		
600.0	599.7	598.7	598.7	1.1	1.0	170.87	-0.2	30.0	43.7	41.7	2.04	21.437 SF		
700.0	699.4	697.5	697.5	1.3	1.2	171.97	0.0	30.8	51.9	49.6	2.39	21.775		
800.0	799.1	796.1	796.0	1.5	1.4	172.37	0.3	33.3	62.0	59.2	2.73	22.684		
900.0	898.8	894.3	894.1	1.7	1.5	172.32	1.0	37.5	73.7	70.6	3.08	23.927		
1,000.0	998.5	992.1	991.7	1.9	1.7	172.01	1.8	43.3	87.0	83.6	3.43	25.399		
1,100.0	1,098.2	1,089.4	1,088.8	2.1	1.9	171.55	2.9	50.7	102.0	98.2	3.77	27.037		
1,200.0	1,197.9	1,186.2	1,185.1	2.3	2.1	171.02	4.3	59.6	118.6	114.5	4.12	28.796		
1,300.0	1,297.6	1,282.4	1,280.8	2.6	2.4	170.47	5.9	70.1	136.8	132.4	4.46	30.649		
1,400.0	1,397.3	1,378.6	1,376.2	2.8	2.6	169.92	7.7	82.2	156.6	151.8	4.81	32.561		
1,500.0	1,497.1	1,476.5	1,473.2	3.0	2.8	169.46	9.6	94.9	176.9	171.8	5.16	34.292		
1,600.0	1,596.8	1,574.4	1,570.3	3.2	3.1	169.09	11.5	107.7	197.2	191.7	5.51	35.804		
1,700.0	1,696.5	1,672.3	1,667.3	3.4	3.4	168.78	13.4	120.4	217.6	211.7	5.86	37.138		
1,800.0	1,796.2	1,770.2	1,764.4	3.7	3.6	168.53	15.3	133.2	237.9	231.7	6.21	38.321		
1,900.0	1,895.9	1,868.1	1,861.5	3.9	3.9	168.32	17.3	146.0	258.2	251.7	6.56	39.379		
2,000.0	1,995.6	1,966.0	1,958.5	4.1	4.2	168.14	19.2	158.7	278.5	271.6	6.91	40.331		
2,100.0	2,095.3	2,063.9	2,055.6	4.3	4.4	167.99	21.1	171.5	298.9	291.6	7.26	41.191		
2,200.0	2,195.0	2,161.8	2,152.6	4.5	4.7	167.85	23.0	184.2	319.2	311.6	7.61	41.972		
2,300.0	2,294.7	2,259.7	2,249.7	4.7	5.0	167.73	24.9	197.0	339.6	331.6	7.95	42.685		
2,400.0	2,394.4	2,357.6	2,346.7	5.0	5.3	167.63	26.8	209.7	359.9	351.6	8.30	43.338		
2,500.0	2,494.1	2,455.6	2,443.8	5.2	5.5	167.53	28.7	222.5	380.2	371.6	8.65	43.939		
2,600.0	2,593.8	2,553.5	2,540.8	5.4	5.8	167.45	30.7	235.2	400.6	391.6	9.00	44.492		
2,700.0	2,693.6	2,651.4	2,637.9	5.6	6.1	167.37	32.6	248.0	420.9	411.6	9.35	45.005		
2,800.0	2,793.3	2,749.3	2,734.9	5.8	6.4	167.30	34.5	260.7	441.2	431.5	9.70	45.481		
2,900.0	2,893.0	2,847.2	2,832.0	6.1	6.6	167.24	36.4	273.5	461.6	451.5	10.05	45.923		
3,000.0	2,992.7	2,945.1	2,929.1	6.3	6.9	167.18	38.3	286.2	481.9	471.5	10.40	46.336		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4F-32H-O268 - 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	80.58	5.8	35.0	35.5					
100.0	100.0	99.0	99.0	0.1	0.1	80.58	5.8	35.0	35.5					
200.0	200.0	199.0	199.0	0.3	0.3	80.58	5.8	35.0	35.5	34.9	0.64	55.138 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	157.48	5.8	35.0	36.3	35.3	0.99	36.566		
400.0	400.0	399.0	399.0	0.7	0.7	158.96	5.8	35.0	38.7	37.4	1.34	28.861		
500.0	499.9	498.9	498.9	0.9	0.8	161.04	5.8	35.0	42.8	41.2	1.69	25.322		
600.0	599.7	598.7	598.7	1.1	1.0	163.36	5.8	35.0	48.7	46.6	2.04	23.838		
700.0	699.4	698.4	698.4	1.3	1.2	165.56	5.8	35.0	55.9	53.5	2.39	23.385 SF		
800.0	799.1	797.0	797.0	1.5	1.4	167.17	5.9	35.8	64.1	61.4	2.74	23.431		
900.0	898.8	895.3	895.3	1.7	1.5	168.24	6.2	38.3	74.1	71.0	3.08	24.034		
1,000.0	998.5	993.3	993.2	1.9	1.7	168.88	6.6	42.5	85.8	82.4	3.43	25.016		
1,100.0	1,098.2	1,090.8	1,090.5	2.1	1.9	169.21	7.2	48.3	99.2	95.4	3.78	26.266		
1,200.0	1,197.9	1,187.9	1,187.3	2.3	2.1	169.33	8.0	55.7	114.2	110.1	4.12	27.714		
1,300.0	1,297.6	1,284.5	1,283.5	2.6	2.3	169.31	8.9	64.7	130.9	126.4	4.47	29.310		
1,400.0	1,397.3	1,380.5	1,378.9	2.8	2.5	169.20	10.0	75.2	149.2	144.4	4.81	31.020		
1,500.0	1,497.1	1,475.9	1,473.5	3.0	2.8	169.02	11.3	87.2	169.1	164.0	5.15	32.822		
1,600.0	1,596.8	1,570.6	1,567.2	3.2	3.0	168.81	12.7	100.7	190.7	185.2	5.50	34.695		
1,700.0	1,696.5	1,664.6	1,660.0	3.4	3.3	168.58	14.3	115.6	213.8	208.0	5.84	36.628		
1,800.0	1,796.2	1,758.3	1,752.3	3.7	3.6	168.34	16.0	131.9	238.5	232.3	6.18	38.602		
1,900.0	1,895.9	1,855.0	1,847.4	3.9	3.9	168.12	17.8	149.4	263.8	257.3	6.52	40.430		
2,000.0	1,995.6	1,951.7	1,942.5	4.1	4.2	167.94	19.6	166.9	289.1	282.2	6.87	42.075		
2,100.0	2,095.3	2,048.5	2,037.7	4.3	4.5	167.79	21.5	184.4	314.4	307.2	7.22	43.563		
2,200.0	2,195.0	2,145.2	2,132.8	4.5	4.9	167.66	23.3	201.9	339.7	332.2	7.56	44.914		
2,300.0	2,294.7	2,242.0	2,227.9	4.7	5.2	167.55	25.1	219.4	365.1	357.1	7.91	46.148		
2,400.0	2,394.4	2,338.7	2,323.0	5.0	5.5	167.46	27.0	236.9	390.4	382.1	8.26	47.278		
2,500.0	2,494.1	2,435.5	2,418.2	5.2	5.9	167.37	28.8	254.3	415.7	407.1	8.60	48.317		
2,600.0	2,593.8	2,532.2	2,513.3	5.4	6.2	167.30	30.6	271.8	441.0	432.1	8.95	49.276		
2,700.0	2,693.6	2,628.9	2,608.4	5.6	6.5	167.23	32.5	289.3	466.3	457.0	9.30	50.164		
2,800.0	2,793.3	2,725.7	2,703.6	5.8	6.9	167.17	34.3	306.8	491.6	482.0	9.64	50.988		

Anticollision Report

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Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4G-32H-O268 - 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	90.31	-0.2	40.0	40.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.31	-0.2	40.0	40.0	39.7	0.30	135.491		
200.0	200.0	199.0	199.0	0.3	0.3	90.31	-0.2	40.0	40.0	39.4	0.64	62.109 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	166.95	-0.2	40.0	40.8	39.9	0.99	41.136		
400.0	400.0	399.0	399.0	0.7	0.7	167.73	-0.2	40.0	43.4	42.1	1.34	32.344		
500.0	499.9	498.9	498.9	0.9	0.8	168.83	-0.2	40.0	47.7	46.0	1.69	28.200		
600.0	599.7	598.7	598.7	1.1	1.0	170.09	-0.2	40.0	53.7	51.6	2.04	26.328		
700.0	699.4	698.4	698.4	1.3	1.2	171.29	-0.2	40.0	61.1	58.7	2.39	25.591		
800.0	799.1	798.1	798.1	1.5	1.4	172.26	-0.2	40.0	68.6	65.9	2.74	25.092		
900.0	898.8	896.5	896.5	1.7	1.5	172.90	-0.1	40.8	77.0	73.9	3.08	24.991 SF		
1,000.0	998.5	994.7	994.6	1.9	1.7	173.19	0.1	43.3	87.1	83.7	3.43	25.404		
1,100.0	1,098.2	1,092.4	1,092.3	2.1	1.9	173.22	0.4	47.4	98.8	95.0	3.77	26.185		
1,200.0	1,197.9	1,189.8	1,189.5	2.3	2.1	173.07	0.9	53.2	112.2	108.1	4.12	27.240		
1,300.0	1,297.6	1,286.6	1,286.1	2.6	2.3	172.80	1.5	60.6	127.2	122.8	4.46	28.503		
1,400.0	1,397.3	1,383.0	1,382.0	2.8	2.5	172.46	2.3	69.5	143.9	139.1	4.81	29.928		
1,500.0	1,497.1	1,478.8	1,477.2	3.0	2.7	172.09	3.1	80.0	162.2	157.0	5.15	31.482		
1,600.0	1,596.8	1,574.0	1,571.6	3.2	2.9	171.70	4.1	92.0	182.1	176.6	5.49	33.140		
1,700.0	1,696.5	1,668.5	1,665.2	3.4	3.2	171.31	5.3	105.5	203.6	197.8	5.84	34.883		
1,800.0	1,796.2	1,762.3	1,757.8	3.7	3.4	170.93	6.5	120.3	226.7	220.5	6.18	36.695		
1,900.0	1,895.9	1,855.4	1,849.4	3.9	3.7	170.56	7.9	136.6	251.4	244.8	6.52	38.565		
2,000.0	1,995.6	1,947.7	1,940.0	4.1	4.0	170.21	9.4	154.2	277.6	270.7	6.86	40.483		
2,100.0	2,095.3	2,039.1	2,029.5	4.3	4.4	169.88	10.9	173.0	305.3	298.1	7.19	42.442		
2,200.0	2,195.0	2,129.7	2,117.8	4.5	4.7	169.57	12.6	193.1	334.6	327.1	7.53	44.434		
2,300.0	2,294.7	2,219.4	2,204.9	4.7	5.1	169.28	14.4	214.3	365.4	357.5	7.87	46.456		
2,400.0	2,394.4	2,311.0	2,293.6	5.0	5.5	169.00	16.3	237.2	397.5	389.3	8.20	48.455		
2,500.0	2,494.1	2,405.6	2,385.1	5.2	5.9	168.75	18.3	261.1	429.8	421.2	8.55	50.292		
2,600.0	2,593.8	2,500.2	2,476.7	5.4	6.3	168.53	20.3	285.0	462.1	453.2	8.89	51.988		
2,700.0	2,693.6	2,594.9	2,568.2	5.6	6.7	168.35	22.3	308.9	494.4	485.2	9.23	53.560		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4H-32H-O268 - 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	82.71	5.8	45.0	45.4					
100.0	100.0	99.0	99.0	0.1	0.1	82.71	5.8	45.0	45.4	45.1	0.30	153.776		
200.0	200.0	199.0	199.0	0.3	0.3	82.71	5.8	45.0	45.4	44.8	0.64	70.491	CC, ES	
300.0	300.0	299.0	299.0	0.5	0.5	159.46	5.8	45.0	46.2	45.2	0.99	46.535		
400.0	400.0	399.0	399.0	0.7	0.7	160.54	5.8	45.0	48.7	47.3	1.34	36.259		
500.0	499.9	498.9	498.9	0.9	0.8	162.10	5.8	45.0	52.8	51.1	1.69	31.214		
600.0	599.7	598.7	598.7	1.1	1.0	163.92	5.8	45.0	58.6	56.6	2.04	28.734		
700.0	699.4	698.4	698.4	1.3	1.2	165.72	5.8	45.0	65.9	63.5	2.39	27.569		
800.0	799.1	798.1	798.1	1.5	1.4	167.19	5.8	45.0	73.3	70.6	2.74	26.763		
900.0	898.8	897.8	897.8	1.7	1.5	168.39	5.8	45.0	80.8	77.7	3.09	26.156		
1,000.0	998.5	996.0	996.0	1.9	1.7	169.31	5.8	45.8	89.1	85.7	3.44	25.937	SF	
1,100.0	1,098.2	1,093.9	1,093.9	2.1	1.9	169.95	6.0	48.3	99.1	95.3	3.78	26.214		
1,200.0	1,197.9	1,191.5	1,191.4	2.3	2.1	170.35	6.3	52.4	110.8	106.7	4.13	26.858		
1,300.0	1,297.6	1,288.6	1,288.3	2.6	2.2	170.56	6.6	58.2	124.2	119.7	4.47	27.781		
1,400.0	1,397.3	1,385.3	1,384.7	2.8	2.4	170.64	7.1	65.5	139.2	134.4	4.81	28.919		
1,500.0	1,497.1	1,481.4	1,480.4	3.0	2.6	170.61	7.7	74.4	155.9	150.7	5.16	30.228		
1,600.0	1,596.8	1,577.0	1,575.4	3.2	2.8	170.51	8.4	84.9	174.2	168.7	5.50	31.674		
1,700.0	1,696.5	1,672.0	1,669.6	3.4	3.1	170.37	9.2	96.8	194.1	188.3	5.84	33.232		
1,800.0	1,796.2	1,766.3	1,763.0	3.7	3.3	170.19	10.1	110.3	215.7	209.5	6.18	34.882		
1,900.0	1,895.9	1,859.9	1,855.4	3.9	3.6	170.00	11.1	125.1	238.8	232.3	6.52	36.608		
2,000.0	1,995.6	1,952.8	1,946.8	4.1	3.9	169.80	12.2	141.3	263.5	256.6	6.86	38.399		
2,100.0	2,095.3	2,044.8	2,037.2	4.3	4.2	169.59	13.3	158.8	289.7	282.5	7.20	40.243		
2,200.0	2,195.0	2,136.1	2,126.5	4.5	4.5	169.39	14.6	177.6	317.5	309.9	7.54	42.133		
2,300.0	2,294.7	2,226.5	2,214.7	4.7	4.8	169.19	15.9	197.6	346.8	338.9	7.87	44.061		
2,400.0	2,394.4	2,316.0	2,301.7	5.0	5.2	168.99	17.3	218.7	377.5	369.3	8.20	46.023		
2,500.0	2,494.1	2,404.6	2,387.4	5.2	5.6	168.81	18.8	241.0	409.8	401.2	8.53	48.013		
2,600.0	2,593.8	2,492.3	2,471.9	5.4	6.0	168.63	20.4	264.4	443.5	434.6	8.86	50.026		
2,700.0	2,693.6	2,579.0	2,555.0	5.6	6.4	168.45	22.0	288.7	478.6	469.4	9.19	52.060		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4I-32H-O268 - 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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	90.31	-0.3	60.0	60.0					
100.0	100.0	98.0	98.0	0.1	0.1	90.31	-0.3	60.0	60.0	59.7	0.29	204.263		
200.0	200.0	198.0	198.0	0.3	0.3	90.31	-0.3	60.0	60.0	59.4	0.64	93.417 CC		
300.0	300.0	298.7	298.7	0.5	0.5	167.44	-0.9	59.4	60.3	59.3	0.99	60.682 ES		
400.0	400.0	399.4	399.4	0.7	0.7	169.75	-2.8	57.5	61.1	59.7	1.35	45.357		
500.0	499.9	500.0	499.9	0.9	0.9	173.46	-5.9	54.4	62.6	60.9	1.70	36.717		
600.0	599.7	600.5	600.2	1.1	1.1	178.34	-10.2	50.1	65.1	63.1	2.07	31.423		
700.0	699.4	700.8	700.2	1.3	1.3	-175.96	-15.8	44.5	68.7	66.2	2.46	27.946		
800.0	799.1	800.7	799.6	1.5	1.5	-169.84	-22.3	38.0	72.4	69.6	2.86	25.321		
900.0	898.8	900.3	898.8	1.7	1.7	-164.28	-29.0	31.3	76.9	73.6	3.27	23.474		
1,000.0	998.5	999.9	998.0	1.9	2.0	-159.37	-35.7	24.6	82.0	78.3	3.70	22.161		
1,100.0	1,098.2	1,099.6	1,097.2	2.1	2.2	-155.05	-42.3	18.0	87.6	83.5	4.13	21.214		
1,200.0	1,197.9	1,199.2	1,196.4	2.3	2.4	-151.27	-49.0	11.3	93.6	89.1	4.56	20.522		
1,300.0	1,297.6	1,298.8	1,295.5	2.6	2.7	-147.97	-55.6	4.6	100.1	95.1	5.00	20.010		
1,400.0	1,397.3	1,398.5	1,394.7	2.8	2.9	-145.07	-62.3	-2.0	106.8	101.3	5.44	19.630		
1,500.0	1,497.1	1,498.1	1,493.9	3.0	3.1	-142.51	-68.9	-8.7	113.7	107.8	5.88	19.345		
1,600.0	1,596.8	1,597.8	1,593.1	3.2	3.4	-140.25	-75.6	-15.4	120.9	114.5	6.32	19.130		
1,700.0	1,696.5	1,697.4	1,692.3	3.4	3.6	-138.25	-82.2	-22.0	128.2	121.4	6.76	18.968		
1,800.0	1,796.2	1,797.0	1,791.5	3.7	3.9	-136.47	-88.9	-28.7	135.6	128.4	7.20	18.846		
1,900.0	1,895.9	1,896.7	1,890.7	3.9	4.1	-134.87	-95.6	-35.3	143.2	135.6	7.64	18.754		
2,000.0	1,995.6	1,996.3	1,989.9	4.1	4.3	-133.43	-102.2	-42.0	150.9	142.8	8.07	18.686		
2,100.0	2,095.3	2,096.0	2,089.1	4.3	4.6	-132.14	-108.9	-48.7	158.6	150.1	8.51	18.636		
2,200.0	2,195.0	2,195.6	2,188.3	4.5	4.8	-130.96	-115.5	-55.3	166.4	157.5	8.95	18.599		
2,300.0	2,294.7	2,295.2	2,287.5	4.7	5.0	-129.89	-122.2	-62.0	174.3	165.0	9.39	18.574		
2,400.0	2,394.4	2,394.9	2,386.7	5.0	5.3	-128.92	-128.8	-68.7	182.3	172.5	9.82	18.558		
2,500.0	2,494.1	2,494.5	2,485.8	5.2	5.5	-128.02	-135.5	-75.3	190.3	180.0	10.26	18.548		
2,600.0	2,593.8	2,594.1	2,585.0	5.4	5.8	-127.20	-142.1	-82.0	198.3	187.6	10.69	18.544		
2,700.0	2,693.6	2,693.8	2,684.2	5.6	6.0	-126.44	-148.8	-88.6	206.4	195.3	11.13	18.544		
2,800.0	2,793.3	2,793.4	2,783.4	5.8	6.2	-125.74	-155.4	-95.3	214.5	202.9	11.56	18.548		
2,900.0	2,893.0	2,893.1	2,882.6	6.1	6.5	-125.09	-162.1	-102.0	222.6	210.6	12.00	18.554		
3,000.0	2,992.7	2,992.7	2,981.8	6.3	6.7	-124.48	-168.8	-108.6	230.8	218.4	12.43	18.562		
3,100.0	3,092.4	3,092.3	3,081.0	6.5	7.0	-123.92	-175.4	-115.3	239.0	226.1	12.87	18.572		
3,200.0	3,192.1	3,192.0	3,180.2	6.7	7.2	-123.39	-182.1	-122.0	247.2	233.9	13.30	18.584		
3,300.0	3,291.8	3,291.6	3,279.4	6.9	7.4	-122.90	-188.7	-128.6	255.4	241.7	13.74	18.596		
3,400.0	3,391.5	3,391.2	3,378.6	7.2	7.7	-122.44	-195.4	-135.3	263.7	249.5	14.17	18.609		
3,500.0	3,491.2	3,490.9	3,477.8	7.4	7.9	-122.01	-202.0	-142.0	271.9	257.3	14.60	18.623		
3,600.0	3,590.9	3,590.5	3,577.0	7.6	8.1	-121.60	-208.7	-148.6	280.2	265.2	15.04	18.637		
3,700.0	3,690.6	3,690.2	3,676.1	7.8	8.4	-121.22	-215.3	-155.3	288.5	273.0	15.47	18.651		
3,800.0	3,790.3	3,789.8	3,775.3	8.0	8.6	-120.85	-222.0	-161.9	296.8	280.9	15.90	18.665		
3,900.0	3,890.0	3,889.4	3,874.5	8.3	8.9	-120.51	-228.7	-168.6	305.1	288.8	16.33	18.680		
4,000.0	3,989.8	3,989.1	3,973.7	8.5	9.1	-120.19	-235.3	-175.3	313.4	296.7	16.77	18.694		
4,100.0	4,089.5	4,088.7	4,072.9	8.7	9.3	-119.88	-242.0	-181.9	321.8	304.6	17.20	18.709		
4,200.0	4,189.2	4,188.3	4,172.1	8.9	9.6	-119.59	-248.6	-188.6	330.1	312.5	17.63	18.723		
4,300.0	4,288.9	4,288.0	4,271.3	9.1	9.8	-119.31	-255.3	-195.3	338.5	320.4	18.06	18.738		
4,400.0	4,388.6	4,387.6	4,370.5	9.4	10.1	-119.04	-261.9	-201.9	346.8	328.3	18.50	18.752		
4,500.0	4,488.3	4,487.3	4,469.7	9.6	10.3	-118.79	-268.6	-208.6	355.2	336.3	18.93	18.766		
4,600.0	4,588.0	4,586.9	4,568.9	9.8	10.5	-118.55	-275.2	-215.3	363.6	344.2	19.36	18.779		
4,700.0	4,687.7	4,686.5	4,668.1	10.0	10.8	-118.32	-281.9	-221.9	371.9	352.1	19.79	18.793		
4,800.0	4,787.4	4,786.2	4,767.3	10.2	11.0	-118.10	-288.6	-228.6	380.3	360.1	20.22	18.806		
4,900.0	4,887.1	4,885.8	4,866.4	10.5	11.3	-117.89	-295.2	-235.2	388.7	368.0	20.65	18.819		
5,000.0	4,986.8	4,985.4	4,965.6	10.7	11.5	-117.69	-301.9	-241.9	397.1	376.0	21.09	18.832		
5,100.0	5,086.5	5,085.1	5,064.8	10.9	11.7	-117.50	-308.5	-248.6	405.5	384.0	21.52	18.844		

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4I-32H-O268 - 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	5,186.3	5,184.7	5,164.0	11.1	12.0	-117.31	-315.2	-255.2	413.9	391.9	21.95	18.857		
5,300.0	5,286.0	5,284.4	5,263.2	11.3	12.2	-117.13	-321.8	-261.9	422.3	399.9	22.38	18.869		
5,400.0	5,385.7	5,384.0	5,362.4	11.6	12.5	-116.96	-328.5	-268.6	430.7	407.9	22.81	18.881		
5,500.0	5,485.4	5,483.6	5,461.6	11.8	12.7	-116.80	-335.1	-275.2	439.1	415.9	23.24	18.892		
5,600.0	5,585.1	5,583.3	5,560.8	12.0	12.9	-116.64	-341.8	-281.9	447.5	423.9	23.67	18.904		
5,700.0	5,684.8	5,682.9	5,660.0	12.2	13.2	-116.49	-348.5	-288.5	456.0	431.9	24.11	18.915		
5,800.0	5,784.5	5,782.5	5,759.2	12.4	13.4	-116.34	-355.1	-295.2	464.4	439.8	24.54	18.926		
5,900.0	5,884.2	5,882.2	5,858.4	12.7	13.6	-116.20	-361.8	-301.9	472.8	447.8	24.97	18.936		
6,000.0	5,983.9	5,981.8	5,957.6	12.9	13.9	-116.06	-368.4	-308.5	481.2	455.8	25.40	18.947		
6,100.0	6,083.6	6,081.5	6,056.7	13.1	14.1	-115.93	-375.1	-315.2	489.7	463.8	25.83	18.957		
6,200.0	6,183.3	6,181.1	6,155.9	13.3	14.4	-115.80	-381.7	-321.9	498.1	471.8	26.26	18.967		
7,200.0	7,163.6	7,331.6	7,299.5	15.3	16.8	-27.91	-423.8	-398.7	482.7	454.4	28.35	17.026		
7,300.0	7,242.7	7,510.5	7,460.5	15.6	16.5	-58.23	-348.2	-409.5	396.2	368.2	27.98	14.158		
7,400.0	7,310.2	7,539.7	7,484.2	15.9	16.5	-93.46	-331.2	-411.1	302.7	275.2	27.44	11.030		
7,500.0	7,363.9	7,528.6	7,475.3	16.3	16.5	-107.23	-337.8	-410.5	213.8	186.8	26.94	7.936		
7,600.0	7,402.2	7,501.8	7,453.3	16.9	16.6	-105.14	-353.0	-409.0	141.2	113.3	27.89	5.063		
7,687.7	7,422.2	7,471.9	7,427.9	17.6	16.6	-93.92	-368.7	-407.3	114.2	84.7	29.50	3.870		
7,700.0	7,423.9	7,467.4	7,424.0	17.7	16.6	-91.75	-371.0	-407.0	114.7	85.1	29.66	3.869 SF		
7,800.0	7,429.0	7,429.0	7,390.2	18.6	16.7	-72.53	-388.9	-404.8	153.1	123.7	29.39	5.209		
7,900.0	7,429.0	7,400.0	7,363.8	19.6	16.7	-61.98	-400.9	-403.0	224.4	195.7	28.76	7.802		
8,000.0	7,429.0	7,370.6	7,336.6	20.7	16.8	-53.13	-411.7	-401.2	308.2	280.4	27.84	11.072		
8,100.0	7,429.0	7,350.0	7,317.1	21.9	16.8	-47.96	-418.4	-399.9	397.6	370.1	27.47	14.472		
8,200.0	7,429.0	7,333.1	7,301.0	23.2	16.8	-44.30	-423.4	-398.8	489.9	462.5	27.37	17.901		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4J-32H-O268 - 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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	85.03	5.7	65.0	65.3					
100.0	100.0	98.0	98.0	0.1	0.1	85.03	5.7	65.0	65.3	65.0	0.29	222.225		
200.0	200.0	198.0	198.0	0.3	0.3	85.03	5.7	65.0	65.3	64.6	0.64	101.632 CC, ES		
300.0	300.0	298.0	298.0	0.5	0.5	161.64	5.7	65.0	66.1	65.1	0.99	66.681		
400.0	400.0	398.2	398.2	0.7	0.7	163.01	4.8	64.9	68.4	67.1	1.34	50.983		
500.0	499.9	498.3	498.3	0.9	0.8	166.02	2.3	64.5	72.1	70.4	1.69	42.532		
600.0	599.7	598.2	598.1	1.1	1.0	170.26	-2.0	63.7	77.5	75.4	2.05	37.720		
700.0	699.4	697.8	697.5	1.3	1.2	175.21	-8.0	62.7	84.6	82.2	2.42	34.915		
800.0	799.1	797.1	796.5	1.5	1.4	-179.58	-15.6	61.4	92.5	89.6	2.80	32.970		
900.0	898.8	896.3	895.3	1.7	1.7	-174.48	-24.5	59.9	101.2	98.0	3.19	31.677		
1,000.0	998.5	995.6	994.1	1.9	1.9	-170.17	-33.5	58.3	110.6	107.0	3.59	30.823		
1,100.0	1,098.2	1,094.8	1,092.9	2.1	2.1	-166.55	-42.5	56.8	120.5	116.6	3.98	30.252		
1,200.0	1,197.9	1,194.0	1,191.7	2.3	2.3	-163.49	-51.5	55.3	130.9	126.5	4.38	29.866		
1,300.0	1,297.6	1,293.3	1,290.6	2.6	2.6	-160.89	-60.4	53.7	141.6	136.8	4.78	29.604		
1,400.0	1,397.3	1,392.5	1,389.4	2.8	2.8	-158.65	-69.4	52.2	152.5	147.3	5.18	29.429		
1,500.0	1,497.1	1,491.7	1,488.2	3.0	3.0	-156.71	-78.4	50.7	163.6	158.0	5.58	29.312		
1,600.0	1,596.8	1,591.0	1,587.0	3.2	3.2	-155.02	-87.4	49.1	174.9	168.9	5.98	29.237		
1,700.0	1,696.5	1,690.2	1,685.8	3.4	3.5	-153.54	-96.4	47.6	186.3	179.9	6.38	29.191		
1,800.0	1,796.2	1,789.5	1,784.6	3.7	3.7	-152.22	-105.4	46.1	197.8	191.0	6.78	29.167		
1,900.0	1,895.9	1,888.7	1,883.5	3.9	3.9	-151.05	-114.4	44.5	209.4	202.2	7.18	29.159		
2,000.0	1,995.6	1,987.9	1,982.3	4.1	4.2	-150.01	-123.4	43.0	221.1	213.5	7.58	29.161		
2,100.0	2,095.3	2,087.2	2,081.1	4.3	4.4	-149.07	-132.3	41.4	232.8	224.8	7.98	29.172		
2,200.0	2,195.0	2,186.4	2,179.9	4.5	4.6	-148.22	-141.3	39.9	244.6	236.3	8.38	29.188		
2,300.0	2,294.7	2,285.7	2,278.7	4.7	4.9	-147.45	-150.3	38.4	256.5	247.7	8.78	29.208		
2,400.0	2,394.4	2,384.9	2,377.6	5.0	5.1	-146.74	-159.3	36.8	268.4	259.2	9.18	29.232		
2,500.0	2,494.1	2,484.1	2,476.4	5.2	5.3	-146.10	-168.3	35.3	280.3	270.7	9.58	29.257		
2,600.0	2,593.8	2,583.4	2,575.2	5.4	5.6	-145.51	-177.3	33.8	292.3	282.3	9.98	29.284		
2,700.0	2,693.6	2,682.6	2,674.0	5.6	5.8	-144.97	-186.3	32.2	304.3	293.9	10.38	29.311		
2,800.0	2,793.3	2,781.8	2,772.8	5.8	6.0	-144.46	-195.2	30.7	316.3	305.5	10.78	29.339		
2,900.0	2,893.0	2,881.1	2,871.7	6.1	6.3	-144.00	-204.2	29.2	328.3	317.2	11.18	29.367		
3,000.0	2,992.7	2,980.3	2,970.5	6.3	6.5	-143.56	-213.2	27.6	340.4	328.8	11.58	29.395		
3,100.0	3,092.4	3,079.6	3,069.3	6.5	6.7	-143.16	-222.2	26.1	352.5	340.5	11.98	29.422		
3,200.0	3,192.1	3,178.8	3,168.1	6.7	7.0	-142.78	-231.2	24.5	364.6	352.2	12.38	29.449		
3,300.0	3,291.8	3,278.0	3,266.9	6.9	7.2	-142.43	-240.2	23.0	376.7	363.9	12.78	29.476		
3,400.0	3,391.5	3,377.3	3,365.7	7.2	7.4	-142.10	-249.2	21.5	388.8	375.6	13.18	29.502		
3,500.0	3,491.2	3,476.5	3,464.6	7.4	7.7	-141.79	-258.2	19.9	400.9	387.4	13.58	29.527		
3,600.0	3,590.9	3,575.7	3,563.4	7.6	7.9	-141.49	-267.1	18.4	413.1	399.1	13.98	29.552		
3,700.0	3,690.6	3,675.0	3,662.2	7.8	8.2	-141.22	-276.1	16.9	425.2	410.9	14.38	29.577		
3,800.0	3,790.3	3,774.2	3,761.0	8.0	8.4	-140.96	-285.1	15.3	437.4	422.6	14.78	29.600		
3,900.0	3,890.0	3,873.5	3,859.8	8.3	8.6	-140.71	-294.1	13.8	449.6	434.4	15.18	29.623		
4,000.0	3,989.8	3,972.7	3,958.7	8.5	8.9	-140.48	-303.1	12.3	461.8	446.2	15.58	29.645		
4,100.0	4,089.5	4,071.9	4,057.5	8.7	9.1	-140.26	-312.1	10.7	473.9	458.0	15.98	29.667		
4,200.0	4,189.2	4,171.2	4,156.3	8.9	9.3	-140.05	-321.1	9.2	486.1	469.8	16.37	29.688		
4,300.0	4,288.9	4,270.4	4,255.1	9.1	9.6	-139.85	-330.0	7.6	498.3	481.6	16.77	29.709		
7,300.0	7,242.7	7,232.7	7,226.9	15.6	13.6	-107.96	-41.1	-51.7	492.7	466.7	25.97	18.968		
7,400.0	7,310.2	7,650.9	7,414.0	15.9	13.6	-101.13	-121.8	-50.1	474.9	448.6	26.33	18.040		
7,497.4	7,362.7	7,579.8	7,393.6	16.3	13.7	-94.55	-189.9	-48.6	469.4	442.3	27.12	17.306		
7,500.0	7,363.9	7,578.0	7,392.9	16.3	13.7	-94.37	-191.6	-48.5	469.4	442.2	27.14	17.292		
7,600.0	7,402.2	7,510.5	7,365.7	16.9	13.9	-87.53	-253.2	-47.0	474.9	446.8	28.11	16.899 SF		
7,700.0	7,423.9	7,450.0	7,335.3	17.7	14.1	-80.99	-305.5	-45.6	489.4	460.5	28.90	16.935		

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4K-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	90.31	-0.4	70.0	70.0					
100.0	100.0	98.0	98.0	0.1	0.1	90.31	-0.4	70.0	70.0	69.7	0.29	238.307		
200.0	200.0	198.0	198.0	0.3	0.3	90.31	-0.4	70.0	70.0	69.4	0.64	108.986 CC, ES		
300.0	300.0	298.0	298.0	0.5	0.5	166.83	-0.4	70.0	70.8	69.9	0.99	71.471		
400.0	400.0	398.0	398.0	0.7	0.7	167.29	-0.4	70.0	73.4	72.1	1.34	54.767		
500.0	499.9	497.2	497.2	0.9	0.8	168.52	-1.1	70.4	78.1	76.4	1.69	46.245		
600.0	599.7	596.2	596.1	1.1	1.0	170.80	-3.4	71.5	85.4	83.3	2.04	41.918		
700.0	699.4	694.7	694.6	1.3	1.2	173.68	-7.1	73.5	95.2	92.8	2.39	39.847		
800.0	799.1	792.9	792.6	1.5	1.4	176.75	-12.3	76.2	106.3	103.6	2.74	38.745		
900.0	898.8	890.7	890.1	1.7	1.6	179.85	-19.0	79.7	118.8	115.7	3.10	38.278 SF		
1,000.0	998.5	988.4	987.3	1.9	1.8	-177.12	-27.1	83.9	132.8	129.3	3.47	38.280		
1,100.0	1,098.2	1,087.1	1,085.6	2.1	2.0	-174.50	-35.8	88.4	147.4	143.6	3.84	38.433		
1,200.0	1,197.9	1,185.8	1,183.8	2.3	2.3	-172.35	-44.5	92.9	162.3	158.1	4.20	38.617		
1,300.0	1,297.6	1,284.5	1,282.0	2.6	2.5	-170.56	-53.2	97.5	177.4	172.9	4.57	38.811		
1,400.0	1,397.3	1,383.2	1,380.3	2.8	2.7	-169.06	-61.9	102.0	192.7	187.7	4.94	39.006		
1,500.0	1,497.1	1,482.0	1,478.5	3.0	3.0	-167.77	-70.6	106.5	208.0	202.7	5.31	39.195		
1,600.0	1,596.8	1,580.7	1,576.7	3.2	3.2	-166.66	-79.3	111.0	223.4	217.8	5.67	39.376		
1,700.0	1,696.5	1,679.4	1,674.9	3.4	3.4	-165.70	-88.0	115.6	238.9	232.9	6.04	39.547		
1,800.0	1,796.2	1,778.1	1,773.2	3.7	3.7	-164.85	-96.7	120.1	254.5	248.1	6.41	39.708		
1,900.0	1,895.9	1,876.8	1,871.4	3.9	3.9	-164.10	-105.4	124.6	270.1	263.3	6.78	39.858		
2,000.0	1,995.6	1,975.5	1,969.6	4.1	4.1	-163.43	-114.1	129.1	285.7	278.6	7.14	40.000		
2,100.0	2,095.3	2,074.3	2,067.9	4.3	4.4	-162.83	-122.8	133.6	301.4	293.9	7.51	40.132		
2,200.0	2,195.0	2,173.0	2,166.1	4.5	4.6	-162.29	-131.5	138.2	317.1	309.2	7.88	40.255		
2,300.0	2,294.7	2,271.7	2,264.3	4.7	4.9	-161.80	-140.2	142.7	332.9	324.6	8.24	40.371		
2,400.0	2,394.4	2,370.4	2,362.5	5.0	5.1	-161.36	-148.9	147.2	348.6	340.0	8.61	40.480		
2,500.0	2,494.1	2,469.1	2,460.8	5.2	5.3	-160.95	-157.6	151.7	364.4	355.4	8.98	40.581		
2,600.0	2,593.8	2,567.8	2,559.0	5.4	5.6	-160.58	-166.3	156.2	380.2	370.8	9.35	40.677		
2,700.0	2,693.6	2,666.6	2,657.2	5.6	5.8	-160.24	-175.0	160.8	396.0	386.3	9.71	40.767		
2,800.0	2,793.3	2,765.3	2,755.5	5.8	6.1	-159.92	-183.7	165.3	411.8	401.7	10.08	40.852		
2,900.0	2,893.0	2,864.0	2,853.7	6.1	6.3	-159.63	-192.4	169.8	427.6	417.2	10.45	40.931		
3,000.0	2,992.7	2,962.7	2,951.9	6.3	6.5	-159.36	-201.1	174.3	443.5	432.7	10.81	41.007		
3,100.0	3,092.4	3,061.4	3,050.1	6.5	6.8	-159.10	-209.8	178.9	459.3	448.1	11.18	41.078		
3,200.0	3,192.1	3,160.1	3,148.4	6.7	7.0	-158.87	-218.5	183.4	475.2	463.6	11.55	41.146		
3,300.0	3,291.8	3,258.9	3,246.6	6.9	7.3	-158.65	-227.2	187.9	491.0	479.1	11.92	41.209		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4L-32H-O268 - 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	85.73	5.6	75.0	75.3					
100.0	100.0	98.0	98.0	0.1	0.1	85.73	5.6	75.0	75.2	74.9	0.29	256.144		
200.0	200.0	198.0	198.0	0.3	0.3	85.73	5.6	75.0	75.2	74.6	0.64	117.144 CC, ES		
300.0	300.0	298.0	298.0	0.5	0.5	162.30	5.6	75.0	76.1	75.1	0.99	76.735		
400.0	400.0	398.0	398.0	0.7	0.7	162.87	5.6	75.0	78.6	77.2	1.34	58.612		
500.0	499.9	497.9	497.9	0.9	0.8	163.75	5.6	75.0	82.7	81.1	1.69	48.971		
600.0	599.7	596.7	596.7	1.1	1.0	165.24	5.0	75.6	89.1	87.1	2.04	43.758		
700.0	699.4	695.2	695.2	1.3	1.2	167.47	3.1	77.2	98.1	95.7	2.39	41.129		
800.0	799.1	793.3	793.2	1.5	1.4	169.99	-0.1	79.9	108.5	105.8	2.73	39.676		
900.0	898.8	891.1	890.8	1.7	1.6	172.62	-4.5	83.7	120.3	117.2	3.09	38.990		
1,000.0	998.5	988.4	987.8	1.9	1.8	175.24	-10.2	88.6	133.6	130.2	3.44	38.853 SF		
1,100.0	1,098.2	1,085.3	1,084.3	2.1	2.0	177.77	-17.1	94.5	148.5	144.7	3.79	39.127		
1,200.0	1,197.9	1,181.6	1,180.0	2.3	2.2	-179.82	-25.1	101.4	164.9	160.7	4.15	39.716		
1,300.0	1,297.6	1,278.8	1,276.5	2.6	2.4	-177.60	-34.3	109.3	182.7	178.2	4.51	40.494		
1,400.0	1,397.3	1,377.0	1,373.9	2.8	2.7	-175.73	-43.6	117.3	200.9	196.0	4.87	41.211		
1,500.0	1,497.1	1,475.1	1,471.2	3.0	2.9	-174.17	-52.9	125.3	219.2	213.9	5.24	41.865		
1,600.0	1,596.8	1,573.3	1,568.6	3.2	3.2	-172.86	-62.2	133.3	237.6	232.0	5.60	42.461		
1,700.0	1,696.5	1,671.4	1,666.0	3.4	3.5	-171.73	-71.5	141.3	256.2	250.2	5.96	43.004		
1,800.0	1,796.2	1,769.6	1,763.4	3.7	3.7	-170.75	-80.8	149.3	274.8	268.5	6.32	43.500		
1,900.0	1,895.9	1,867.7	1,860.8	3.9	4.0	-169.90	-90.2	157.3	293.5	286.8	6.68	43.955		
2,000.0	1,995.6	1,965.9	1,958.1	4.1	4.2	-169.15	-99.5	165.3	312.3	305.2	7.04	44.372		
2,100.0	2,095.3	2,064.0	2,055.5	4.3	4.5	-168.49	-108.8	173.3	331.1	323.7	7.40	44.756		
2,200.0	2,195.0	2,162.2	2,152.9	4.5	4.8	-167.90	-118.1	181.3	349.9	342.1	7.76	45.111		
2,300.0	2,294.7	2,260.3	2,250.3	4.7	5.0	-167.36	-127.4	189.3	368.8	360.7	8.12	45.438		
2,400.0	2,394.4	2,358.5	2,347.6	5.0	5.3	-166.88	-136.7	197.3	387.7	379.2	8.48	45.742		
2,500.0	2,494.1	2,456.6	2,445.0	5.2	5.6	-166.45	-146.1	205.3	406.6	397.8	8.83	46.025		
2,600.0	2,593.8	2,554.8	2,542.4	5.4	5.9	-166.05	-155.4	213.3	425.5	416.3	9.19	46.287		
2,700.0	2,693.6	2,652.9	2,639.8	5.6	6.1	-165.69	-164.7	221.3	444.5	434.9	9.55	46.533		
2,800.0	2,793.3	2,751.1	2,737.1	5.8	6.4	-165.35	-174.0	229.3	463.5	453.6	9.91	46.763		
2,900.0	2,893.0	2,849.2	2,834.5	6.1	6.7	-165.05	-183.3	237.3	482.5	472.2	10.27	46.978		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4M-32H-O268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	87.96	3.5	96.7	96.8					
100.0	100.0	98.0	98.0	0.1	0.1	87.96	3.5	96.7	96.8	96.5	0.29	329.492		
200.0	200.0	198.0	198.0	0.3	0.3	87.96	3.5	96.7	96.8	96.1	0.64	150.689 CC, ES		
300.0	300.0	298.0	298.0	0.5	0.5	164.46	3.5	96.7	97.6	96.6	0.99	98.480		
400.0	400.0	398.0	398.0	0.7	0.7	164.85	3.5	96.7	100.1	98.8	1.34	74.718		
500.0	499.9	497.9	497.9	0.9	0.8	165.47	3.5	96.7	104.4	102.7	1.69	61.777		
600.0	599.7	597.7	597.7	1.1	1.0	166.25	3.5	96.7	110.3	108.2	2.04	54.107		
700.0	699.4	695.8	695.8	1.3	1.2	167.33	3.0	97.4	118.3	115.9	2.38	49.585		
800.0	799.1	793.6	793.6	1.5	1.4	168.73	1.5	99.3	127.8	125.0	2.73	46.782		
900.0	898.8	891.0	890.9	1.7	1.5	170.31	-1.0	102.6	138.8	135.7	3.08	45.093		
1,000.0	998.5	988.1	987.8	1.9	1.7	171.99	-4.5	107.2	151.3	147.9	3.42	44.188		
1,100.0	1,098.2	1,084.7	1,084.1	2.1	1.9	173.70	-8.9	113.0	165.4	161.6	3.77	43.858 SF		
1,200.0	1,197.9	1,180.8	1,179.8	2.3	2.1	175.38	-14.3	120.1	181.1	177.0	4.12	43.962		
1,300.0	1,297.6	1,276.3	1,274.7	2.6	2.3	177.00	-20.7	128.5	198.4	193.9	4.47	44.405		
1,400.0	1,397.3	1,371.2	1,368.9	2.8	2.6	178.54	-27.9	138.0	217.3	212.5	4.82	45.116		
1,500.0	1,497.1	1,465.5	1,462.2	3.0	2.8	179.99	-36.0	148.7	237.8	232.6	5.16	46.046		
1,600.0	1,596.8	1,562.1	1,557.7	3.2	3.1	-178.66	-45.0	160.5	259.5	254.0	5.52	47.034		
1,700.0	1,696.5	1,659.6	1,654.0	3.4	3.4	-177.51	-54.1	172.5	281.4	275.5	5.87	47.923		
1,800.0	1,796.2	1,757.0	1,750.2	3.7	3.7	-176.53	-63.2	184.4	303.3	297.1	6.22	48.729		
1,900.0	1,895.9	1,854.5	1,846.5	3.9	4.0	-175.68	-72.2	196.4	325.3	318.7	6.58	49.462		
2,000.0	1,995.6	1,951.9	1,942.8	4.1	4.3	-174.93	-81.3	208.3	347.4	340.5	6.93	50.132		
2,100.0	2,095.3	2,049.3	2,039.1	4.3	4.6	-174.28	-90.4	220.3	369.5	362.2	7.28	50.747		
2,200.0	2,195.0	2,146.8	2,135.4	4.5	4.9	-173.69	-99.5	232.2	391.7	384.1	7.63	51.312		
2,300.0	2,294.7	2,244.2	2,231.6	4.7	5.2	-173.17	-108.6	244.2	413.9	405.9	7.99	51.833		
2,400.0	2,394.4	2,341.6	2,327.9	5.0	5.5	-172.71	-117.7	256.2	436.1	427.8	8.34	52.315		
2,500.0	2,494.1	2,439.1	2,424.2	5.2	5.8	-172.29	-126.7	268.1	458.4	449.7	8.69	52.762		
2,600.0	2,593.8	2,536.5	2,520.5	5.4	6.1	-171.90	-135.8	280.1	480.7	471.6	9.04	53.177		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4N-32H-O268 - 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	86.03	7.1	102.3	102.6					
100.0	100.0	98.0	98.0	0.1	0.1	86.03	7.1	102.3	102.6	102.3	0.29	349.171		
200.0	200.0	198.0	198.0	0.3	0.3	86.03	7.1	102.3	102.6	101.9	0.64	159.689 CC, ES		
300.0	300.0	298.0	298.0	0.5	0.5	162.54	7.1	102.3	103.4	102.4	0.99	104.300		
400.0	400.0	398.0	398.0	0.7	0.7	162.96	7.1	102.3	105.9	104.6	1.34	79.000		
500.0	499.9	497.9	497.9	0.9	0.8	163.61	7.1	102.3	110.1	108.4	1.69	65.143		
600.0	599.7	597.7	597.7	1.1	1.0	164.45	7.1	102.3	115.9	113.9	2.04	56.862		
700.0	699.4	697.4	697.4	1.3	1.2	165.38	7.1	102.3	123.2	120.8	2.39	51.573		
800.0	799.1	795.2	795.2	1.5	1.4	166.37	6.7	103.0	131.3	128.6	2.74	48.004		
900.0	898.8	892.6	892.6	1.7	1.5	167.56	5.6	105.2	141.0	137.9	3.08	45.754		
1,000.0	998.5	989.7	989.6	1.9	1.7	168.88	3.6	108.8	152.2	148.8	3.43	44.425		
1,100.0	1,098.2	1,086.4	1,086.1	2.1	1.9	170.25	0.9	113.8	165.0	161.3	3.77	43.770		
1,200.0	1,197.9	1,182.6	1,182.0	2.3	2.1	171.63	-2.6	120.2	179.5	175.3	4.11	43.620 SF		
1,300.0	1,297.6	1,278.3	1,277.3	2.6	2.3	172.97	-6.8	128.0	195.5	191.1	4.46	43.861		
1,400.0	1,397.3	1,373.5	1,371.9	2.8	2.5	174.27	-11.7	137.1	213.2	208.4	4.80	44.410		
1,500.0	1,497.1	1,468.0	1,465.7	3.0	2.7	175.49	-17.4	147.5	232.6	227.4	5.14	45.207		
1,600.0	1,596.8	1,561.9	1,558.6	3.2	3.0	176.64	-23.7	159.2	253.5	248.0	5.49	46.206		
1,700.0	1,696.5	1,655.0	1,650.6	3.4	3.3	177.71	-30.7	172.2	276.1	270.3	5.83	47.370		
1,800.0	1,796.2	1,747.5	1,741.7	3.7	3.5	178.69	-38.4	186.3	300.2	294.1	6.17	48.672		
1,900.0	1,895.9	1,839.2	1,831.7	3.9	3.8	179.60	-46.6	201.6	326.0	319.5	6.51	50.090		
2,000.0	1,995.6	1,930.3	1,920.9	4.1	4.2	-179.56	-55.5	218.0	353.3	346.4	6.85	51.607		
2,100.0	2,095.3	2,025.8	2,014.2	4.3	4.5	-178.78	-65.2	235.9	381.4	374.2	7.19	53.035		
2,200.0	2,195.0	2,121.7	2,107.9	4.5	4.9	-178.10	-75.0	253.9	409.6	402.0	7.54	54.342		
2,300.0	2,294.7	2,217.5	2,201.5	4.7	5.3	-177.51	-84.7	271.9	437.8	429.9	7.88	55.543		
2,400.0	2,394.4	2,313.4	2,295.1	5.0	5.6	-177.00	-94.4	289.8	466.0	457.8	8.23	56.650		
2,500.0	2,494.1	2,409.2	2,388.8	5.2	6.0	-176.54	-104.1	307.8	494.3	485.8	8.57	57.674		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4O-32H-O268 - 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	88.11	3.5	105.1	105.2					
100.0	100.0	98.0	98.0	0.1	0.1	88.11	3.5	105.1	105.2	104.9	0.29	358.052		
200.0	200.0	198.0	198.0	0.3	0.3	88.11	3.5	105.1	105.2	104.5	0.64	163.750 CC, ES		
300.0	300.0	298.0	298.0	0.5	0.5	164.61	3.5	105.1	106.0	105.0	0.99	106.943		
400.0	400.0	398.0	398.0	0.7	0.7	164.97	3.5	105.1	108.5	107.2	1.34	80.979		
500.0	499.9	496.1	496.1	0.9	0.8	165.66	3.2	105.9	113.5	111.8	1.69	67.327		
600.0	599.7	593.8	593.8	1.1	1.0	166.72	2.4	108.2	121.8	119.8	2.03	59.977		
700.0	699.4	691.1	690.9	1.3	1.2	168.01	1.1	112.1	133.2	130.8	2.38	56.041		
800.0	799.1	787.9	787.6	1.5	1.4	169.28	-0.8	117.5	146.3	143.6	2.72	53.769		
900.0	898.8	884.2	883.6	1.7	1.6	170.49	-3.1	124.5	161.1	158.1	3.07	52.572		
1,000.0	998.5	980.0	979.1	1.9	1.8	171.63	-6.0	132.9	177.6	174.2	3.41	52.123 SF		
1,100.0	1,098.2	1,075.3	1,073.7	2.1	2.0	172.67	-9.4	142.7	195.8	192.0	3.75	52.216		
1,200.0	1,197.9	1,169.9	1,167.6	2.3	2.3	173.61	-13.2	154.0	215.6	211.5	4.09	52.713		
1,300.0	1,297.6	1,263.9	1,260.6	2.6	2.5	174.47	-17.5	166.6	237.0	232.6	4.43	53.519		
1,400.0	1,397.3	1,357.2	1,352.7	2.8	2.8	175.25	-22.3	180.6	260.1	255.3	4.77	54.566		
1,500.0	1,497.1	1,449.7	1,443.8	3.0	3.1	175.95	-27.5	195.9	284.7	279.6	5.10	55.805		
1,600.0	1,596.8	1,541.4	1,533.9	3.2	3.4	176.58	-33.1	212.4	310.9	305.5	5.44	57.197		
1,700.0	1,696.5	1,632.3	1,622.9	3.4	3.8	177.14	-39.1	230.1	338.7	332.9	5.77	58.715		
1,800.0	1,796.2	1,722.4	1,710.7	3.7	4.1	177.65	-45.6	248.9	368.0	361.9	6.10	60.336		
1,900.0	1,895.9	1,811.6	1,797.3	3.9	4.5	178.11	-52.4	268.9	398.8	392.4	6.43	62.043		
2,000.0	1,995.6	1,900.0	1,882.9	4.1	4.9	178.53	-59.5	289.9	431.1	424.3	6.75	63.819		
2,100.0	2,095.3	1,992.2	1,971.9	4.3	5.4	178.92	-67.4	312.8	464.5	457.4	7.09	65.527		
2,200.0	2,195.0	2,086.4	2,062.8	4.5	5.8	179.26	-75.3	336.2	497.9	490.5	7.42	67.063		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Hwy 52 4P-32H-O268 - 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	86.33	7.1	110.7	111.0				
100.0	100.0	98.0	98.0	0.1	0.1	86.33	7.1	110.7	110.9	110.6	0.29	377.683	
200.0	200.0	198.0	198.0	0.3	0.3	86.33	7.1	110.7	110.9	110.3	0.64	172.728	CC, ES
300.0	300.0	296.2	296.2	0.5	0.5	162.92	7.0	111.5	112.6	111.6	0.99	113.916	
400.0	400.0	394.1	394.1	0.7	0.7	163.57	6.5	113.9	117.5	116.2	1.33	88.110	
500.0	499.9	491.7	491.6	0.9	0.9	164.54	5.7	118.0	125.9	124.2	1.68	74.941	
600.0	599.7	588.8	588.5	1.1	1.0	165.69	4.7	123.7	137.5	135.5	2.02	67.964	
700.0	699.4	685.3	684.7	1.3	1.2	166.91	3.3	130.9	152.3	149.9	2.37	64.328	
800.0	799.1	781.2	780.2	1.5	1.5	168.02	1.7	139.7	168.9	166.2	2.71	62.304	
900.0	898.8	876.5	875.0	1.7	1.7	168.99	-0.3	149.9	187.1	184.1	3.05	61.316	
1,000.0	998.5	971.3	968.9	1.9	2.0	169.85	-2.5	161.6	207.0	203.6	3.39	61.046	SF
1,100.0	1,098.2	1,065.3	1,062.0	2.1	2.2	170.60	-5.0	174.8	228.6	224.9	3.73	61.293	
1,200.0	1,197.9	1,158.7	1,154.2	2.3	2.5	171.26	-7.7	189.3	251.8	247.7	4.07	61.922	
1,300.0	1,297.6	1,251.3	1,245.4	2.6	2.8	171.83	-10.7	205.2	276.5	272.1	4.40	62.843	
1,400.0	1,397.3	1,343.1	1,335.5	2.8	3.2	172.33	-13.9	222.4	302.9	298.1	4.73	63.991	
1,500.0	1,497.1	1,434.1	1,424.5	3.0	3.5	172.77	-17.4	240.8	330.8	325.7	5.06	65.317	
1,600.0	1,596.8	1,524.2	1,512.4	3.2	3.9	173.16	-21.1	260.4	360.2	354.8	5.39	66.787	
1,700.0	1,696.5	1,613.4	1,599.1	3.4	4.3	173.50	-25.0	281.2	391.1	385.4	5.72	68.374	
1,800.0	1,796.2	1,700.0	1,682.9	3.7	4.7	173.80	-29.0	302.6	423.5	417.5	6.04	70.090	
1,900.0	1,895.9	1,789.1	1,768.8	3.9	5.2	174.07	-33.4	325.9	457.4	451.0	6.37	71.815	
2,000.0	1,995.6	1,875.5	1,851.7	4.1	5.6	174.31	-37.9	349.7	492.7	486.0	6.69	73.641	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - RAY NELSON 33-32 (EXISTING) - ENCANA WELL - ENCANA WELL											Offset Site Error:		0.0 ft	
Survey Program:		926-Geolink MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis				Distance						Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis					
0.0	0.0	0.0	0.0	0.0	0.0	59.14	229.7	384.3	447.9							
100.0	100.0	91.0	91.0	0.1	0.2	59.14	229.6	384.3	447.6	447.3	0.31	1,450.870				
200.0	200.0	192.1	192.1	0.3	0.3	59.15	229.4	384.0	447.3	446.6	0.66	676.660				
246.1	246.1	238.7	238.7	0.4	0.4	135.54	229.2	383.8	447.2	446.4	0.81	549.458 CC				
300.0	300.0	293.2	293.2	0.5	0.5	135.61	229.0	383.6	447.3	446.3	1.00	446.594 ES				
400.0	400.0	394.2	394.2	0.7	0.7	135.86	228.4	382.9	448.4	447.0	1.35	331.590				
500.0	499.9	495.2	495.2	0.9	0.9	136.26	227.7	382.1	450.5	448.8	1.71	263.991				
600.0	599.7	596.2	596.2	1.1	1.0	136.81	226.8	381.1	453.6	451.5	2.07	219.610				
700.0	699.4	697.1	697.0	1.3	1.2	137.49	225.7	379.9	457.6	455.1	2.43	188.442				
800.0	799.1	797.9	797.9	1.5	1.4	138.19	224.5	378.5	461.4	458.6	2.79	165.271				
900.0	898.8	898.8	898.7	1.7	1.6	138.88	223.1	376.9	465.1	462.0	3.16	147.377				
1,000.0	998.5	998.6	998.5	1.9	1.8	139.43	222.6	374.8	468.8	465.2	3.52	133.207				
1,100.0	1,098.2	1,085.3	1,085.1	2.1	1.9	139.56	225.2	372.5	473.6	469.8	3.86	122.634				
1,200.0	1,197.9	1,172.9	1,172.5	2.3	2.1	139.38	231.1	371.5	481.5	477.2	4.22	114.213				
1,300.0	1,297.6	1,260.4	1,259.5	2.6	2.2	138.94	240.1	371.3	491.7	487.1	4.58	107.406 SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - RAY NELSON 34-32 (EXISTING) - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 103-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	92.11	-8.6	231.9	232.2					
100.0	100.0	88.6	88.6	0.1	0.1	92.10	-8.5	232.1	232.3	232.0	0.28	827.189 ES		
200.0	200.0	187.7	187.7	0.3	0.3	92.11	-8.6	232.9	233.1	232.5	0.63	372.774		
300.0	300.0	288.1	288.1	0.5	0.5	168.61	-9.0	233.8	234.9	233.9	0.97	241.124		
400.0	400.0	388.4	388.4	0.7	0.7	168.91	-9.8	234.6	238.2	236.9	1.32	179.902		
500.0	499.9	488.5	488.5	0.9	0.8	169.27	-10.5	235.1	243.1	241.4	1.67	145.268		
600.0	599.7	588.4	588.4	1.1	1.0	169.64	-11.1	235.6	249.6	247.6	2.02	123.465		
700.0	699.4	688.8	688.7	1.3	1.2	170.02	-11.5	236.0	257.4	255.0	2.37	108.526		
800.0	799.1	788.8	788.8	1.5	1.4	170.34	-11.6	236.1	265.1	262.3	2.72	97.395		
900.0	898.8	889.6	889.6	1.7	1.5	170.62	-11.7	236.1	272.5	269.5	3.07	88.701		
1,000.0	998.5	989.9	989.9	1.9	1.7	170.86	-11.5	235.6	279.6	276.2	3.42	81.697		
1,100.0	1,098.2	1,090.2	1,090.1	2.1	1.9	171.13	-11.6	235.1	286.6	282.9	3.77	75.970		
1,200.0	1,197.9	1,191.5	1,191.5	2.3	2.1	171.36	-11.5	234.2	293.3	289.1	4.12	71.094		
1,300.0	1,297.6	1,291.0	1,290.9	2.6	2.2	171.51	-11.1	233.0	299.7	295.2	4.47	66.985		
1,400.0	1,397.3	1,391.0	1,391.0	2.8	2.4	171.61	-10.4	232.0	306.1	301.3	4.82	63.471		
1,500.0	1,497.1	1,492.3	1,492.3	3.0	2.6	171.67	-9.5	230.6	312.2	307.1	5.18	60.334		
1,600.0	1,596.8	1,593.1	1,593.0	3.2	2.8	171.77	-8.7	228.8	318.0	312.4	5.53	57.537		
1,700.0	1,696.5	1,691.8	1,691.7	3.4	2.9	171.87	-8.1	227.0	323.6	317.8	5.87	55.099		
1,800.0	1,796.2	1,790.5	1,790.3	3.7	3.1	171.87	-6.9	225.8	329.8	323.6	6.22	53.011		
1,900.0	1,895.9	1,891.4	1,891.3	3.9	3.3	171.80	-5.2	224.5	336.0	329.4	6.57	51.108		
2,000.0	1,995.6	1,989.2	1,989.1	4.1	3.5	171.72	-3.6	223.4	342.3	335.3	6.92	49.454		
2,100.0	2,095.3	2,087.9	2,087.7	4.3	3.6	171.77	-2.7	222.6	348.9	341.6	7.27	48.004		
2,200.0	2,195.0	2,185.8	2,185.6	4.5	3.8	171.98	-2.9	222.2	356.1	348.5	7.61	46.777		
2,300.0	2,294.7	2,286.2	2,286.0	4.7	4.0	172.25	-3.5	222.0	363.5	355.5	7.96	45.648		
2,400.0	2,394.4	2,385.1	2,384.9	5.0	4.1	172.51	-4.1	221.5	370.7	362.4	8.31	44.612		
2,500.0	2,494.1	2,489.0	2,488.9	5.2	4.3	172.91	-5.7	220.9	377.8	369.2	8.66	43.608		
2,600.0	2,593.8	2,603.0	2,602.7	5.4	4.5	173.48	-7.9	217.0	382.2	373.2	9.04	42.298		
2,700.0	2,693.6	2,703.9	2,703.4	5.6	4.7	174.25	-11.6	211.3	384.7	375.3	9.39	40.981		
2,800.0	2,793.3	2,806.7	2,805.9	5.8	4.9	175.28	-17.0	205.1	387.1	377.3	9.74	39.727		
2,900.0	2,893.0	2,910.9	2,909.5	6.1	5.1	176.60	-24.1	197.0	388.2	378.1	10.11	38.403		
3,000.0	2,992.7	3,015.8	3,013.7	6.3	5.3	177.97	-31.4	187.8	388.5	378.0	10.48	37.065		
3,100.0	3,092.4	3,126.2	3,122.9	6.5	5.6	179.92	-41.8	174.9	386.7	375.8	10.88	35.522		
3,200.0	3,192.1	3,223.2	3,218.5	6.7	5.8	-178.18	-51.9	162.4	384.4	373.1	11.27	34.095		
3,300.0	3,291.8	3,326.1	3,320.2	6.9	6.1	-176.33	-61.4	149.5	382.5	370.8	11.68	32.741		
3,400.0	3,391.5	3,435.1	3,427.7	7.2	6.4	-174.37	-70.7	133.8	379.0	366.9	12.13	31.251		
3,500.0	3,491.2	3,536.3	3,526.8	7.4	6.7	-172.13	-81.0	116.7	374.1	361.6	12.58	29.733		
3,600.0	3,590.9	3,639.2	3,627.5	7.6	7.0	-169.67	-91.9	98.4	369.2	356.1	13.08	28.232		
3,700.0	3,690.6	3,729.5	3,715.6	7.8	7.3	-167.17	-103.4	82.2	365.7	352.1	13.58	26.934		
3,800.0	3,790.3	3,827.7	3,811.1	8.0	7.6	-164.13	-118.0	64.4	363.8	349.7	14.15	25.713		
3,837.1	3,827.4	3,861.7	3,844.0	8.1	7.7	-163.03	-123.4	58.3	363.6	349.3	14.36	25.318		
3,900.0	3,890.0	3,922.7	3,903.3	8.3	8.0	-161.02	-133.4	47.6	364.1	349.3	14.75	24.685		
4,000.0	3,989.8	4,026.6	4,003.9	8.5	8.4	-157.53	-150.1	27.9	364.5	349.1	15.42	23.639		
4,100.0	4,089.5	4,125.5	4,099.8	8.7	8.7	-154.33	-165.0	8.9	365.3	349.2	16.08	22.717		
4,200.0	4,189.2	4,219.6	4,191.3	8.9	9.1	-151.45	-178.6	-8.4	367.5	350.8	16.71	21.990		
4,300.0	4,288.9	4,318.8	4,288.3	9.1	9.4	-148.76	-192.1	-24.8	371.5	354.1	17.35	21.411		
4,400.0	4,388.6	4,411.4	4,379.0	9.4	9.8	-146.52	-203.8	-38.9	376.4	358.5	17.94	20.986		
4,500.0	4,488.3	4,508.9	4,474.7	9.6	10.1	-144.35	-216.6	-52.4	383.2	364.7	18.54	20.670		
4,600.0	4,588.0	4,607.2	4,571.1	9.8	10.4	-142.16	-229.8	-66.3	390.7	371.5	19.16	20.394		
4,700.0	4,687.7	4,706.8	4,669.1	10.0	10.8	-140.22	-242.5	-79.3	398.8	379.0	19.73	20.211		
4,800.0	4,787.4	4,808.8	4,769.8	10.2	11.1	-138.70	-253.3	-90.7	406.6	386.3	20.26	20.064		
4,900.0	4,887.1	4,910.2	4,870.5	10.5	11.3	-137.82	-261.3	-99.2	414.0	393.3	20.73	19.968		
5,000.0	4,986.8	5,013.3	4,973.3	10.7	11.5	-137.35	-267.2	-105.6	421.0	399.8	21.17	19.884		

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 Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - RAY NELSON 34-32 (EXISTING) - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 103-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,086.5	5,115.2	5,075.0	10.9	11.7	-137.17	-271.4	-110.8	427.1	405.6	21.57	19.801		
5,200.0	5,186.3	5,220.6	5,180.3	11.1	11.9	-137.29	-273.6	-114.8	432.4	410.4	21.94	19.703		
5,300.0	5,286.0	5,320.5	5,280.1	11.3	12.1	-137.64	-274.2	-117.4	437.1	414.8	22.28	19.615		
5,400.0	5,385.7	5,421.7	5,381.3	11.6	12.2	-138.26	-273.6	-118.4	441.8	419.2	22.59	19.553		
5,500.0	5,485.4	5,525.8	5,485.4	11.8	12.3	-138.97	-272.0	-119.2	445.7	422.8	22.90	19.464		
5,600.0	5,585.1	5,624.1	5,583.6	12.0	12.5	-139.70	-269.7	-119.9	449.3	426.1	23.19	19.371		
5,700.0	5,684.8	5,720.1	5,679.6	12.2	12.6	-140.41	-268.0	-120.0	453.6	430.2	23.48	19.320		
5,800.0	5,784.5	5,821.4	5,781.0	12.4	12.7	-141.14	-266.5	-120.0	458.4	434.6	23.78	19.278		
5,900.0	5,884.2	5,922.6	5,882.1	12.7	12.9	-141.83	-264.8	-120.4	462.7	438.7	24.08	19.217		
6,000.0	5,983.9	6,019.6	5,979.1	12.9	13.0	-142.38	-263.8	-121.3	467.4	443.0	24.40	19.158		
6,100.0	6,083.6	6,119.2	6,078.7	13.1	13.2	-142.83	-263.6	-122.6	472.5	447.8	24.71	19.119		
6,200.0	6,183.3	6,222.7	6,182.2	13.3	13.3	-143.35	-262.7	-123.9	477.2	452.1	25.02	19.067		
6,300.0	6,283.0	6,322.2	6,281.6	13.5	13.4	-143.91	-261.2	-125.1	481.4	456.0	25.33	19.001		
6,400.0	6,382.8	6,420.0	6,379.4	13.8	13.6	-144.40	-260.1	-126.2	486.0	460.3	25.64	18.952		
6,500.0	6,482.5	6,522.0	6,481.4	14.0	13.7	-144.90	-259.1	-127.5	490.7	464.7	25.95	18.906		
6,600.0	6,582.2	6,623.6	6,583.0	14.2	13.9	-145.44	-257.4	-128.7	494.9	468.6	26.26	18.847		
6,700.0	6,681.9	6,721.9	6,681.3	14.4	14.0	-146.04	-255.3	-129.4	499.1	472.6	26.54	18.808		
7,100.0	7,075.1	7,120.5	7,079.7	15.2	14.6	-61.79	-243.6	-131.7	482.4	455.5	26.93	17.914		
7,200.0	7,163.6	7,203.0	7,162.1	15.3	14.7	-65.26	-241.1	-132.4	456.7	430.1	26.64	17.143		
7,300.0	7,242.7	7,277.2	7,236.3	15.6	14.8	-72.03	-239.9	-132.8	428.1	401.5	26.58	16.106		
7,400.0	7,310.2	7,341.4	7,300.6	15.9	14.9	-80.19	-239.4	-132.9	402.4	375.6	26.83	14.999		
7,500.0	7,363.9	7,391.8	7,351.0	16.3	14.9	-87.38	-238.7	-132.6	387.3	360.0	27.28	14.195		
7,536.4	7,379.7	7,406.4	7,365.5	16.5	15.0	-89.33	-238.5	-132.4	385.9	358.4	27.51	14.030		
7,600.0	7,402.2	7,426.7	7,385.9	16.9	15.0	-91.54	-238.2	-132.2	390.2	362.3	27.91	13.982 SF		
7,700.0	7,423.9	7,445.4	7,404.5	17.7	15.0	-91.49	-237.8	-131.9	415.0	386.2	28.78	14.421		
7,800.0	7,429.0	7,448.2	7,407.4	18.6	15.0	-88.29	-237.7	-131.8	459.5	429.8	29.72	15.459		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - RAY NELSON 44-32 (EXISTING) - ENCANA WELL - ENCANA WELL		Offset Site Error:		0.0 ft	
Survey Program:												134-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
0.0	0.0	0.0	0.0	0.0	0.0	61.26	216.9	395.5	451.3								
100.0	100.0	89.3	89.3	0.1	0.1	61.30	216.6	395.7	451.1	450.8	0.29	1,572.670					
141.7	141.7	131.1	131.1	0.2	0.2	61.36	216.2	395.9	451.1	450.6	0.42	1,062.984	CC, ES				
200.0	200.0	182.7	182.7	0.3	0.3	61.41	216.0	396.3	451.4	450.8	0.62	731.830					
300.0	300.0	269.6	269.5	0.5	0.5	137.80	217.3	398.4	454.8	453.9	0.94	482.534					
400.0	400.0	359.3	359.1	0.7	0.6	137.89	220.0	402.5	462.3	461.0	1.28	362.380					
500.0	499.9	446.4	445.9	0.9	0.8	138.10	223.4	408.3	473.2	471.6	1.61	294.355					
600.0	599.7	534.2	533.3	1.1	1.0	138.45	227.5	416.3	488.0	486.1	1.94	250.935	SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft
Survey Program: 850-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		
3,700.0	3,690.6	4,022.4	3,827.4	7.8	23.8	140.85	252.4	143.0	467.3	450.3	16.96	27.549		
3,800.0	3,790.3	4,115.7	3,913.1	8.0	24.5	143.00	227.1	116.3	435.0	417.1	17.96	24.223		
3,900.0	3,890.0	4,208.9	3,998.8	8.3	25.2	145.48	201.8	89.5	403.4	384.3	19.10	21.118		
4,000.0	3,989.8	4,302.2	4,084.4	8.5	25.9	148.37	176.5	62.8	372.7	352.2	20.43	18.245		
4,100.0	4,089.5	4,395.4	4,170.1	8.7	26.6	151.73	151.1	36.0	342.9	321.0	21.96	15.618		
4,200.0	4,189.2	4,488.6	4,255.7	8.9	27.3	155.69	125.8	9.3	314.6	290.8	23.74	13.253		
4,300.0	4,288.9	4,581.9	4,341.4	9.1	28.0	160.35	100.5	-17.4	287.9	262.1	25.79	11.166		
4,400.0	4,388.6	4,675.1	4,427.1	9.4	28.6	165.85	75.2	-44.2	263.5	235.4	28.12	9.371		
4,500.0	4,488.3	4,768.4	4,512.7	9.6	29.3	172.31	49.9	-70.9	242.1	211.4	30.72	7.881		
4,600.0	4,588.0	4,861.6	4,598.4	9.8	30.0	179.77	24.6	-97.7	224.5	191.0	33.50	6.703		
4,700.0	4,687.7	4,954.9	4,684.1	10.0	30.7	-171.80	-0.7	-124.4	211.7	175.4	36.27	5.835		
4,800.0	4,787.4	5,048.1	4,769.7	10.2	31.4	-162.65	-26.0	-151.2	204.5	165.7	38.80	5.270		
4,864.8	4,852.0	5,108.5	4,825.2	10.4	31.8	-156.52	-42.4	-168.5	203.1	163.0	40.16	5.057		
4,900.0	4,887.1	5,141.4	4,855.4	10.5	32.1	-153.17	-51.3	-177.9	203.5	162.7	40.79	4.989		
5,000.0	4,986.8	5,234.6	4,941.1	10.7	32.8	-143.87	-76.7	-204.7	208.9	166.8	42.08	4.965		
5,100.0	5,086.5	5,327.8	5,026.7	10.9	33.4	-135.20	-102.0	-231.4	220.2	177.5	42.65	5.162		
5,200.0	5,186.3	5,421.1	5,112.4	11.1	34.1	-127.44	-127.3	-258.1	236.5	193.8	42.65	5.546		
5,300.0	5,286.0	5,514.3	5,198.1	11.3	34.8	-120.69	-152.6	-284.9	256.9	214.6	42.25	6.079		
5,400.0	5,385.7	5,607.6	5,283.7	11.6	35.5	-114.92	-177.9	-311.6	280.5	238.8	41.66	6.733		
5,500.0	5,485.4	5,700.8	5,369.4	11.8	36.2	-110.02	-203.2	-338.4	306.5	265.5	40.99	7.478		
5,600.0	5,585.1	5,794.1	5,455.1	12.0	36.9	-105.87	-228.5	-365.1	334.4	294.1	40.33	8.292		
5,700.0	5,684.8	5,887.3	5,540.7	12.2	37.6	-102.34	-253.8	-391.9	363.8	324.1	39.72	9.158		
5,800.0	5,784.5	5,980.5	5,626.4	12.4	38.2	-99.32	-279.1	-418.6	394.3	355.1	39.19	10.061		
5,900.0	5,884.2	6,073.8	5,712.1	12.7	38.9	-96.73	-304.4	-445.4	425.6	386.9	38.73	10.989		
6,000.0	5,983.9	6,167.0	5,797.7	12.9	39.6	-94.49	-329.8	-472.1	457.7	419.4	38.36	11.932		
6,100.0	6,083.6	6,260.3	5,883.4	13.1	40.3	-92.53	-355.1	-498.8	490.4	452.3	38.06	12.884		
7,400.0	7,310.2	7,683.9	7,269.2	15.9	41.6	29.68	-535.6	-689.6	463.6	439.5	24.10	19.236		
7,500.0	7,363.9	7,737.6	7,322.9	16.3	41.6	44.46	-535.6	-689.6	385.3	357.0	28.30	13.616		
7,600.0	7,402.2	7,775.9	7,361.2	16.9	41.6	64.73	-535.6	-689.6	304.1	265.4	38.69	7.861		
7,700.0	7,423.9	7,797.7	7,382.9	17.7	41.6	82.92	-535.6	-689.6	228.6	183.6	45.05	5.075		
7,800.0	7,429.0	7,802.7	7,388.0	18.6	41.6	90.00	-535.6	-689.6	176.7	130.3	46.40	3.807		
7,855.0	7,429.0	7,802.7	7,388.0	19.1	41.6	90.00	-535.6	-689.6	167.9	120.8	47.04	3.569 CC, ES, SF		
7,900.0	7,429.0	7,802.7	7,388.0	19.6	41.6	90.00	-535.6	-689.6	173.8	126.2	47.55	3.655		
8,000.0	7,429.0	7,802.7	7,388.0	20.7	41.6	90.00	-535.6	-689.6	221.8	173.0	48.80	4.545		
8,100.0	7,429.0	7,802.7	7,388.0	21.9	41.6	90.00	-535.6	-689.6	297.0	246.9	50.12	5.925		
8,200.0	7,429.0	7,802.7	7,388.0	23.2	41.6	90.00	-535.6	-689.6	383.7	332.2	51.50	7.449		
8,300.0	7,429.0	7,802.7	7,388.0	24.5	41.6	90.00	-535.6	-689.6	475.6	422.7	52.94	8.984		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - Ray Nelson 7-8-32 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	63.98	200.2	410.1	456.5					
100.0	100.0	89.0	89.0	0.1	0.1	63.98	200.2	410.1	456.3	456.0	0.28	1,627.495		
200.0	200.0	189.0	189.0	0.3	0.3	63.98	200.2	410.1	456.3	455.7	0.63	728.293 CC, ES		
300.0	300.0	289.0	289.0	0.5	0.5	140.41	200.2	410.1	457.0	456.0	0.98	468.260		
400.0	400.0	389.0	389.0	0.7	0.7	140.61	200.2	410.1	459.0	457.7	1.33	345.941		
500.0	499.9	488.9	488.9	0.9	0.8	140.93	200.2	410.1	462.4	460.7	1.68	275.131		
600.0	599.7	582.8	582.7	1.1	1.0	141.47	199.4	411.0	467.7	465.7	2.03	230.500		
700.0	699.4	675.3	675.2	1.3	1.2	142.43	196.8	414.2	475.7	473.3	2.38	199.530		
800.0	799.1	767.0	766.6	1.5	1.3	143.68	192.3	419.7	485.3	482.6	2.75	176.519		
900.0	898.8	857.8	856.8	1.7	1.6	145.17	186.1	427.4	496.9	493.7	3.13	158.743 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:													70-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	63.98	200.2		410.1	456.5								
100.0	100.0	84.9	84.9	0.1	0.1	63.99	200.3		410.5	456.8	456.5	0.27	1,687.174					
200.0	200.0	180.2	180.2	0.3	0.3	64.03	200.5		411.7	458.0	457.4	0.61	746.863					
300.0	300.0	275.4	275.4	0.5	0.5	140.74	199.4		414.7	461.0	460.1	0.96	481.143					
400.0	400.0	364.7	364.4	0.7	0.7	141.45	196.7		420.0	467.2	465.9	1.31	357.161					
500.0	499.9	456.0	455.3	0.9	0.9	142.53	192.9		428.1	476.9	475.3	1.68	283.654					
600.0	599.7	547.6	546.2	1.1	1.1	143.94	187.2		438.0	489.5	487.4	2.08	235.435 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-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					
7,200.0	7,163.6	7,174.6	7,056.6	15.3	17.2	-55.40	-328.2	-152.0	498.8	469.4	29.36	16.986						
7,300.0	7,242.7	7,241.2	7,120.8	15.6	17.5	-62.57	-316.9	-138.8	465.9	436.7	29.20	15.957						
7,400.0	7,310.2	7,296.8	7,174.9	15.9	17.7	-70.58	-308.2	-128.7	435.4	406.1	29.27	14.875						
7,500.0	7,363.9	7,339.2	7,216.2	16.3	17.9	-77.43	-302.1	-121.5	413.8	384.2	29.55	14.002						
7,582.9	7,396.8	7,362.7	7,239.1	16.8	17.9	-80.92	-298.8	-117.7	407.4	377.5	29.94	13.607 CC, ES						
7,600.0	7,402.2	7,366.1	7,242.4	16.9	18.0	-81.32	-298.4	-117.2	407.7	377.7	30.02	13.580 SF						
7,700.0	7,423.9	7,375.2	7,251.3	17.7	18.0	-81.11	-297.2	-115.7	421.0	390.4	30.59	13.764						
7,800.0	7,429.0	7,365.3	7,241.7	18.6	18.0	-77.42	-298.5	-117.3	452.7	421.6	31.02	14.594						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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/Hwy 52) - WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1		Offset Site Error:		0.0 ft
Survey Program:											0-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			
8,800.0	7,429.0	7,492.9	7,240.2	31.8	23.8	-75.19	-1,798.7	-174.4	479.9	428.4	51.41	9.334			
8,900.0	7,429.0	7,515.0	7,261.8	33.3	23.9	-78.63	-1,802.9	-172.7	419.8	366.1	53.68	7.819			
9,000.0	7,429.0	7,535.6	7,282.0	34.8	23.9	-81.88	-1,806.7	-171.1	376.0	320.2	55.81	6.736			
9,100.0	7,429.0	7,554.8	7,300.8	36.4	24.0	-84.94	-1,810.1	-169.7	354.6	296.8	57.80	6.136			
9,130.5	7,429.0	7,560.4	7,306.4	36.9	24.0	-85.84	-1,811.1	-169.3	353.4	295.0	58.38	6.053 CC, ES			
9,200.0	7,429.0	7,572.8	7,318.5	38.0	24.1	-87.81	-1,813.2	-168.4	359.9	300.3	59.66	6.033 SF			
9,300.0	7,429.0	7,589.6	7,335.0	39.6	24.1	-90.49	-1,816.0	-167.3	390.8	329.4	61.40	6.365			
9,400.0	7,429.0	7,605.4	7,350.6	41.2	24.2	-92.99	-1,818.6	-166.2	442.0	379.0	63.04	7.012			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Hwy 52 4A-32H-O268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5005.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 5005.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hwy 52 4A-32H-O268	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 @ 5005.0ft (Original Well Elev)

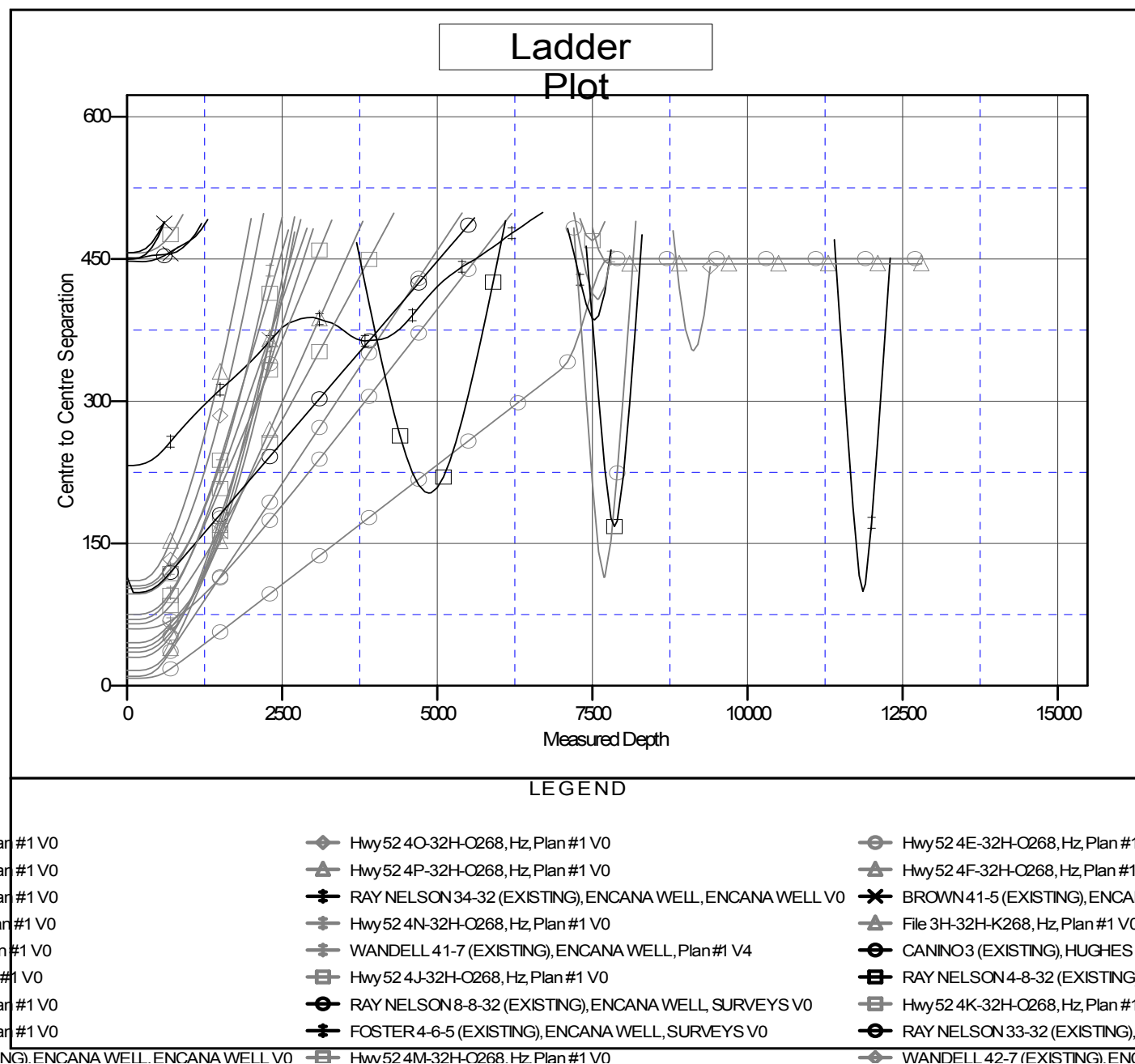
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Hwy 52 4A-32H-O268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.31°



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