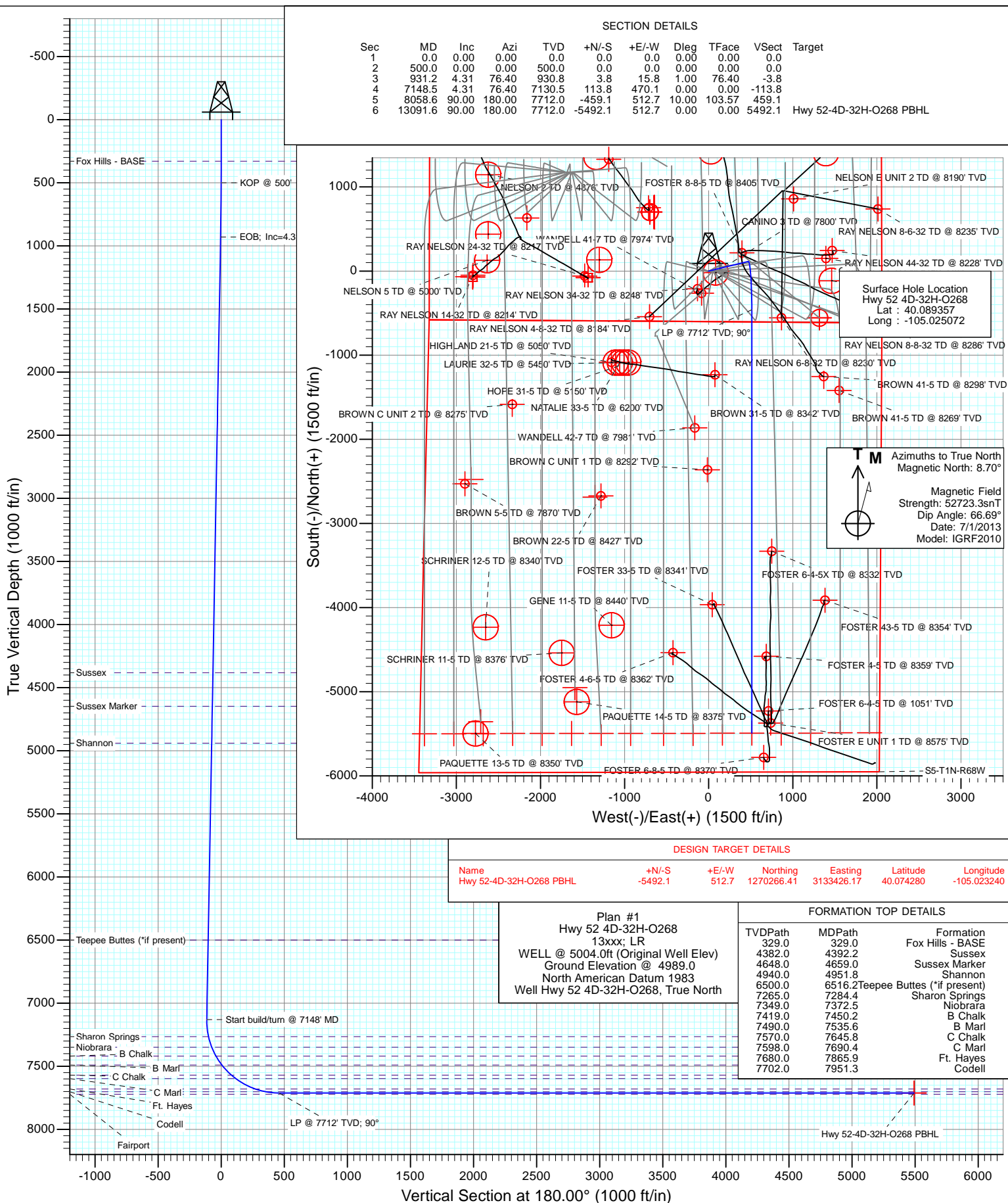




Project: DJ Wattenberg  
Site: S32-T2N-R68W (File/Hwy 52)  
Well: Hwy 52 4D-32H-O268  
Wellbore: Hz  
Design: Plan #1



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

<b>Project</b>	DJ Wattenberg		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 4D-32H-O268					
Well Position	+N/-S	0.0 ft	Northing:	1,275,755.69 ft	Latitude:	40.089357
	+E/-W	0.0 ft	Easting:	3,132,884.09 ft	Longitude:	-105.025072
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,989.0 ft

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

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

<b>Plan Sections</b>										
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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
931.2	4.31	76.40	930.8	3.8	15.8	1.00	1.00	0.00	76.40	
7,148.5	4.31	76.40	7,130.5	113.8	470.1	0.00	0.00	0.00	0.00	
8,058.6	90.00	180.00	7,712.0	-459.1	512.7	10.00	9.41	11.38	103.57	
13,091.6	90.00	180.00	7,712.0	-5,492.1	512.7	0.00	0.00	0.00	0.00	Hwy 52-4D-32H-O268

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
329.0	0.00	0.00	329.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	76.40	600.0	0.2	0.8	-0.2	1.00	1.00	
700.0	2.00	76.40	700.0	0.8	3.4	-0.8	1.00	1.00	
800.0	3.00	76.40	799.9	1.8	7.6	-1.8	1.00	1.00	
900.0	4.00	76.40	899.7	3.3	13.6	-3.3	1.00	1.00	
931.2	4.31	76.40	930.8	3.8	15.8	-3.8	1.00	1.00	EOB; Inc=4.31°
1,000.0	4.31	76.40	999.4	5.0	20.8	-5.0	0.00	0.00	
1,100.0	4.31	76.40	1,099.1	6.8	28.1	-6.8	0.00	0.00	
1,200.0	4.31	76.40	1,198.8	8.6	35.4	-8.6	0.00	0.00	
1,300.0	4.31	76.40	1,298.5	10.3	42.7	-10.3	0.00	0.00	
1,400.0	4.31	76.40	1,398.3	12.1	50.0	-12.1	0.00	0.00	
1,500.0	4.31	76.40	1,498.0	13.9	57.3	-13.9	0.00	0.00	
1,600.0	4.31	76.40	1,597.7	15.6	64.6	-15.6	0.00	0.00	
1,700.0	4.31	76.40	1,697.4	17.4	71.9	-17.4	0.00	0.00	
1,800.0	4.31	76.40	1,797.1	19.2	79.2	-19.2	0.00	0.00	
1,900.0	4.31	76.40	1,896.9	20.9	86.6	-20.9	0.00	0.00	
2,000.0	4.31	76.40	1,996.6	22.7	93.9	-22.7	0.00	0.00	
2,100.0	4.31	76.40	2,096.3	24.5	101.2	-24.5	0.00	0.00	
2,200.0	4.31	76.40	2,196.0	26.3	108.5	-26.3	0.00	0.00	
2,300.0	4.31	76.40	2,295.7	28.0	115.8	-28.0	0.00	0.00	
2,400.0	4.31	76.40	2,395.4	29.8	123.1	-29.8	0.00	0.00	
2,500.0	4.31	76.40	2,495.2	31.6	130.4	-31.6	0.00	0.00	
2,600.0	4.31	76.40	2,594.9	33.3	137.7	-33.3	0.00	0.00	
2,700.0	4.31	76.40	2,694.6	35.1	145.0	-35.1	0.00	0.00	
2,800.0	4.31	76.40	2,794.3	36.9	152.3	-36.9	0.00	0.00	
2,900.0	4.31	76.40	2,894.0	38.6	159.6	-38.6	0.00	0.00	
3,000.0	4.31	76.40	2,993.7	40.4	166.9	-40.4	0.00	0.00	
3,100.0	4.31	76.40	3,093.5	42.2	174.2	-42.2	0.00	0.00	
3,200.0	4.31	76.40	3,193.2	43.9	181.5	-43.9	0.00	0.00	
3,300.0	4.31	76.40	3,292.9	45.7	188.9	-45.7	0.00	0.00	
3,400.0	4.31	76.40	3,392.6	47.5	196.2	-47.5	0.00	0.00	
3,500.0	4.31	76.40	3,492.3	49.2	203.5	-49.2	0.00	0.00	
3,600.0	4.31	76.40	3,592.0	51.0	210.8	-51.0	0.00	0.00	
3,700.0	4.31	76.40	3,691.8	52.8	218.1	-52.8	0.00	0.00	
3,800.0	4.31	76.40	3,791.5	54.5	225.4	-54.5	0.00	0.00	
3,900.0	4.31	76.40	3,891.2	56.3	232.7	-56.3	0.00	0.00	
4,000.0	4.31	76.40	3,990.9	58.1	240.0	-58.1	0.00	0.00	
4,100.0	4.31	76.40	4,090.6	59.9	247.3	-59.9	0.00	0.00	
4,200.0	4.31	76.40	4,190.3	61.6	254.6	-61.6	0.00	0.00	
4,300.0	4.31	76.40	4,290.1	63.4	261.9	-63.4	0.00	0.00	
4,392.2	4.31	76.40	4,382.0	65.0	268.7	-65.0	0.00	0.00	Sussex
4,400.0	4.31	76.40	4,389.8	65.2	269.2	-65.2	0.00	0.00	
4,500.0	4.31	76.40	4,489.5	66.9	276.5	-66.9	0.00	0.00	
4,600.0	4.31	76.40	4,589.2	68.7	283.8	-68.7	0.00	0.00	
4,659.0	4.31	76.40	4,648.0	69.7	288.2	-69.7	0.00	0.00	Sussex Marker
4,700.0	4.31	76.40	4,688.9	70.5	291.2	-70.5	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	4.31	76.40	4,788.6	72.2	298.5	-72.2	0.00	0.00	
4,900.0	4.31	76.40	4,888.4	74.0	305.8	-74.0	0.00	0.00	
4,951.8	4.31	76.40	4,940.0	74.9	309.6	-74.9	0.00	0.00	Shannon
5,000.0	4.31	76.40	4,988.1	75.8	313.1	-75.8	0.00	0.00	
5,100.0	4.31	76.40	5,087.8	77.5	320.4	-77.5	0.00	0.00	
5,200.0	4.31	76.40	5,187.5	79.3	327.7	-79.3	0.00	0.00	
5,300.0	4.31	76.40	5,287.2	81.1	335.0	-81.1	0.00	0.00	
5,400.0	4.31	76.40	5,386.9	82.8	342.3	-82.8	0.00	0.00	
5,500.0	4.31	76.40	5,486.7	84.6	349.6	-84.6	0.00	0.00	
5,600.0	4.31	76.40	5,586.4	86.4	356.9	-86.4	0.00	0.00	
5,700.0	4.31	76.40	5,686.1	88.1	364.2	-88.1	0.00	0.00	
5,800.0	4.31	76.40	5,785.8	89.9	371.5	-89.9	0.00	0.00	
5,900.0	4.31	76.40	5,885.5	91.7	378.8	-91.7	0.00	0.00	
6,000.0	4.31	76.40	5,985.2	93.5	386.1	-93.5	0.00	0.00	
6,100.0	4.31	76.40	6,085.0	95.2	393.5	-95.2	0.00	0.00	
6,200.0	4.31	76.40	6,184.7	97.0	400.8	-97.0	0.00	0.00	
6,300.0	4.31	76.40	6,284.4	98.8	408.1	-98.8	0.00	0.00	
6,400.0	4.31	76.40	6,384.1	100.5	415.4	-100.5	0.00	0.00	
6,500.0	4.31	76.40	6,483.8	102.3	422.7	-102.3	0.00	0.00	
6,516.2	4.31	76.40	6,500.0	102.6	423.9	-102.6	0.00	0.00	Teepee Buttes (*if present)
6,600.0	4.31	76.40	6,583.6	104.1	430.0	-104.1	0.00	0.00	
6,700.0	4.31	76.40	6,683.3	105.8	437.3	-105.8	0.00	0.00	
6,800.0	4.31	76.40	6,783.0	107.6	444.6	-107.6	0.00	0.00	
6,900.0	4.31	76.40	6,882.7	109.4	451.9	-109.4	0.00	0.00	
7,000.0	4.31	76.40	6,982.4	111.1	459.2	-111.1	0.00	0.00	
7,100.0	4.31	76.40	7,082.1	112.9	466.5	-112.9	0.00	0.00	
7,148.5	4.31	76.40	7,130.5	113.8	470.1	-113.8	0.00	0.00	Start build/turn @ 7148' MD
7,200.0	5.89	134.72	7,181.8	112.4	473.8	-112.4	10.00	3.06	
7,284.4	13.25	161.86	7,265.0	100.1	479.9	-100.1	10.00	8.72	Sharon Springs
7,300.0	14.74	163.82	7,280.2	96.5	481.0	-96.5	10.00	9.53	
7,372.5	21.78	169.43	7,349.0	74.4	486.1	-74.4	10.00	9.71	Niobrara
7,400.0	24.48	170.74	7,374.3	63.7	487.9	-63.7	10.00	9.82	
7,450.2	29.41	172.53	7,419.0	41.2	491.2	-41.2	9.96	9.83	B Chalk
7,500.0	34.36	173.85	7,461.3	15.1	494.3	-15.1	10.04	9.94	
7,535.6	37.90	174.60	7,490.0	-5.8	496.4	5.8	10.00	9.92	B Marl
7,600.0	44.30	175.69	7,538.5	-47.9	500.0	47.9	10.00	9.94	
7,645.8	48.85	176.33	7,570.0	-81.1	502.3	81.1	10.00	9.95	C Chalk
7,690.4	53.29	176.87	7,598.0	-115.7	504.3	115.7	10.00	9.96	C Marl
7,700.0	54.25	176.98	7,603.7	-123.5	504.7	123.5	10.00	9.96	
7,800.0	64.21	177.97	7,654.8	-209.2	508.5	209.2	10.00	9.96	
7,865.9	70.79	178.54	7,680.0	-270.1	510.3	270.1	10.00	9.97	Ft. Hayes
7,900.0	74.18	178.81	7,690.2	-302.5	511.1	302.5	10.00	9.97	
7,951.3	79.29	179.21	7,702.0	-352.4	511.9	352.4	10.00	9.97	Codell
8,000.0	84.16	179.57	7,709.0	-400.6	512.5	400.6	10.00	9.97	
8,058.6	90.00	180.00	7,712.0	-459.1	512.7	459.1	10.00	9.97	LP @ 7712' TVD; 90°
8,100.0	90.00	180.00	7,712.0	-500.5	512.7	500.5	0.00	0.00	
8,200.0	90.00	180.00	7,712.0	-600.5	512.7	600.5	0.00	0.00	
8,300.0	90.00	180.00	7,712.0	-700.5	512.7	700.5	0.00	0.00	
8,400.0	90.00	180.00	7,712.0	-800.5	512.7	800.5	0.00	0.00	
8,500.0	90.00	180.00	7,712.0	-900.5	512.7	900.5	0.00	0.00	
8,600.0	90.00	180.00	7,712.0	-1,000.5	512.7	1,000.5	0.00	0.00	
8,700.0	90.00	180.00	7,712.0	-1,100.5	512.7	1,100.5	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	180.00	7,712.0	-1,200.5	512.7	1,200.5	0.00	0.00	
8,900.0	90.00	180.00	7,712.0	-1,300.5	512.7	1,300.5	0.00	0.00	
9,000.0	90.00	180.00	7,712.0	-1,400.5	512.7	1,400.5	0.00	0.00	
9,100.0	90.00	180.00	7,712.0	-1,500.5	512.7	1,500.5	0.00	0.00	
9,200.0	90.00	180.00	7,712.0	-1,600.5	512.7	1,600.5	0.00	0.00	
9,300.0	90.00	180.00	7,712.0	-1,700.5	512.7	1,700.5	0.00	0.00	
9,400.0	90.00	180.00	7,712.0	-1,800.5	512.7	1,800.5	0.00	0.00	
9,500.0	90.00	180.00	7,712.0	-1,900.5	512.7	1,900.5	0.00	0.00	
9,600.0	90.00	180.00	7,712.0	-2,000.5	512.7	2,000.5	0.00	0.00	
9,700.0	90.00	180.00	7,712.0	-2,100.5	512.7	2,100.5	0.00	0.00	
9,800.0	90.00	180.00	7,712.0	-2,200.5	512.7	2,200.5	0.00	0.00	
9,900.0	90.00	180.00	7,712.0	-2,300.5	512.7	2,300.5	0.00	0.00	
10,000.0	90.00	180.00	7,712.0	-2,400.5	512.7	2,400.5	0.00	0.00	
10,100.0	90.00	180.00	7,712.0	-2,500.5	512.7	2,500.5	0.00	0.00	
10,200.0	90.00	180.00	7,712.0	-2,600.5	512.7	2,600.5	0.00	0.00	
10,300.0	90.00	180.00	7,712.0	-2,700.5	512.7	2,700.5	0.00	0.00	
10,400.0	90.00	180.00	7,712.0	-2,800.5	512.7	2,800.5	0.00	0.00	
10,500.0	90.00	180.00	7,712.0	-2,900.5	512.7	2,900.5	0.00	0.00	
10,600.0	90.00	180.00	7,712.0	-3,000.5	512.7	3,000.5	0.00	0.00	
10,700.0	90.00	180.00	7,712.0	-3,100.5	512.7	3,100.5	0.00	0.00	
10,800.0	90.00	180.00	7,712.0	-3,200.5	512.7	3,200.5	0.00	0.00	
10,900.0	90.00	180.00	7,712.0	-3,300.5	512.7	3,300.5	0.00	0.00	
11,000.0	90.00	180.00	7,712.0	-3,400.5	512.7	3,400.5	0.00	0.00	
11,100.0	90.00	180.00	7,712.0	-3,500.5	512.7	3,500.5	0.00	0.00	
11,200.0	90.00	180.00	7,712.0	-3,600.5	512.7	3,600.5	0.00	0.00	
11,300.0	90.00	180.00	7,712.0	-3,700.5	512.7	3,700.5	0.00	0.00	
11,400.0	90.00	180.00	7,712.0	-3,800.5	512.7	3,800.5	0.00	0.00	
11,500.0	90.00	180.00	7,712.0	-3,900.5	512.7	3,900.5	0.00	0.00	
11,600.0	90.00	180.00	7,712.0	-4,000.5	512.7	4,000.5	0.00	0.00	
11,700.0	90.00	180.00	7,712.0	-4,100.5	512.7	4,100.5	0.00	0.00	
11,800.0	90.00	180.00	7,712.0	-4,200.5	512.7	4,200.5	0.00	0.00	
11,900.0	90.00	180.00	7,712.0	-4,300.5	512.7	4,300.5	0.00	0.00	
12,000.0	90.00	180.00	7,712.0	-4,400.5	512.7	4,400.5	0.00	0.00	
12,100.0	90.00	180.00	7,712.0	-4,500.5	512.7	4,500.5	0.00	0.00	
12,200.0	90.00	180.00	7,712.0	-4,600.5	512.7	4,600.5	0.00	0.00	
12,300.0	90.00	180.00	7,712.0	-4,700.5	512.7	4,700.5	0.00	0.00	
12,400.0	90.00	180.00	7,712.0	-4,800.5	512.7	4,800.5	0.00	0.00	
12,500.0	90.00	180.00	7,712.0	-4,900.5	512.7	4,900.5	0.00	0.00	
12,600.0	90.00	180.00	7,712.0	-5,000.5	512.7	5,000.5	0.00	0.00	
12,700.0	90.00	180.00	7,712.0	-5,100.5	512.7	5,100.5	0.00	0.00	
12,800.0	90.00	180.00	7,712.0	-5,200.5	512.7	5,200.5	0.00	0.00	
12,900.0	90.00	180.00	7,712.0	-5,300.5	512.7	5,300.5	0.00	0.00	
13,000.0	90.00	180.00	7,712.0	-5,400.5	512.7	5,400.5	0.00	0.00	
13,091.6	90.00	180.00	7,712.0	-5,492.1	512.7	5,492.1	0.00	0.00	TD at 13091.6 - Hwy 52-4D-32H-O268 PBHL

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Hwy 52-4D-32H-O268 P	0.00	0.00	7,712.0	-5,492.1	512.7	1,270,266.41	3,133,426.17	40.074280	-105.023240
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
329.0	329.0	Fox Hills - BASE				
4,392.2	4,382.0	Sussex				
4,659.0	4,648.0	Sussex Marker				
4,951.8	4,940.0	Shannon				
6,516.2	6,500.0	Teepee Buttes (*if present)				
7,284.4	7,265.0	Sharon Springs				
7,372.5	7,349.0	Niobrara				
7,450.2	7,419.0	B Chalk				
7,535.6	7,490.0	B Marl				
7,645.8	7,570.0	C Chalk				
7,690.4	7,598.0	C Marl				
7,865.9	7,680.0	Ft. Hayes				
7,951.3	7,702.0	Codell				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
931.2	930.8	3.8	15.8	EOB; Inc=4.31°
7,148.5	7,130.5	113.8	470.1	Start build/turn @ 7148' MD
8,058.6	7,712.0	-459.1	512.7	LP @ 7712' TVD; 90°
13,091.6	7,712.0	-5,492.1	512.7	TD at 13091.6

# **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

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

**Hwy 52 4D-32H-O268**

**Hz**

**Plan #1**

## **Anticollision Report**

**03 July, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>		<b>Date</b>	7/3/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	13,091.1	Plan #1 (Hz)	Geolink MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON 31-32 (EXISTING) - ENCANA WELL - PLAN						Out of range
ANDERSON 32-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 32-7 (EXISTING) - KPK WELL - NO SURVE						Out of range
ANDERSON 41-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 42-32 (EXISTING) - BASIN EXP WELL - NO						Out of range
ANDERSON 4-2-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 6-4-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON TRUST 1 (EXISTING) - KPK WELL - NO S						Out of range
ANDERSON TRUST 1 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 32-2 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST 32-8 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C 1 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS	8,841.8	7,950.2	440.0	398.9	10.708	CC, ES
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS	8,900.0	7,949.0	443.8	401.8	10.573	SF
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA	1,233.8	1,209.3	380.0	374.4	67.979	CC, ES
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA	1,800.0	1,699.2	449.8	441.3	52.961	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	1,725.8	1,665.1	37.0	30.8	5.971	CC, ES
CANINO 3 (EXISTING) - HUGHES CW WELL - NO SUR	1,900.0	1,838.9	39.3	32.4	5.745	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						Out of range
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	11,562.8	7,991.8	460.4	359.4	4.560	CC, ES
FOSTER 33-5 (EXISTING) - ENCANA WELL - SURVEY	11,600.0	7,992.2	461.9	360.3	4.545	SF
FOSTER 43-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 4-5 (EXISTING) - ENCANA WELL - SURVEYS	12,192.1	7,837.1	160.1	57.0	1.553	CC, ES
FOSTER 4-5 (EXISTING) - ENCANA WELL - SURVEYS	12,200.0	7,836.9	160.3	57.1	1.553	SF
FOSTER 4-6-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
FOSTER 6-4-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5X (EXISTING) - ENCANA WELL - SURVEY	10,952.5	8,140.4	232.7	133.0	2.333	CC, ES, SF
FOSTER 6-8-5 (EXISTING) - ENCANA WELL - SURVEY	13,091.6	7,803.3	338.6	224.8	2.975	CC, ES, SF
FOSTER 8-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER E UNIT 1 (EXISTING) - ENCANA WELL - NO S	12,971.0	7,756.0	223.9	113.5	2.029	CC, ES, SF
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU						Out of range
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
Hwy 52 4A-32H-O268 - Hz - Plan #1	166.3	167.3	16.2	15.6	30.483	CC
Hwy 52 4A-32H-O268 - Hz - Plan #1	200.0	201.0	16.2	15.5	24.950	ES
Hwy 52 4A-32H-O268 - Hz - Plan #1	500.0	500.0	23.1	21.3	13.467	SF
Hwy 52 4B-32H-O268 - Hz - Plan #1	200.0	200.0	10.0	9.4	15.485	CC, ES
Hwy 52 4B-32H-O268 - Hz - Plan #1	400.0	399.6	13.3	11.9	9.831	SF
Hwy 52 4C-32H-O268 - Hz - Plan #1	681.5	681.7	7.5	5.2	3.222	CC
Hwy 52 4C-32H-O268 - Hz - Plan #1	700.0	700.2	7.5	5.1	3.147	ES
Hwy 52 4C-32H-O268 - Hz - Plan #1	13,091.6	12,758.7	450.0	294.3	2.890	SF
Hwy 52 4E-32H-O268 - Hz - Plan #1	1,000.0	999.3	12.0	8.5	3.441	CC, ES
Hwy 52 4E-32H-O268 - Hz - Plan #1	13,091.6	12,840.5	450.0	294.0	2.885	SF
Hwy 52 4F-32H-O268 - Hz - Plan #1	1,067.7	1,066.8	7.8	4.1	2.102	CC
Hwy 52 4F-32H-O268 - Hz - Plan #1	1,100.0	1,099.1	7.9	4.1	2.052	ES, SF
Hwy 52 4G-32H-O268 - Hz - Plan #1	1,057.2	1,056.3	13.0	9.3	3.510	CC
Hwy 52 4G-32H-O268 - Hz - Plan #1	1,100.0	1,099.1	13.1	9.3	3.388	ES
Hwy 52 4G-32H-O268 - Hz - Plan #1	1,300.0	1,298.9	15.2	10.5	3.242	SF
Hwy 52 4H-32H-O268 - Hz - Plan #1	1,148.7	1,147.6	8.3	4.3	2.054	CC, ES
Hwy 52 4H-32H-O268 - Hz - Plan #1	1,200.0	1,198.9	8.5	4.3	2.008	SF
Hwy 52 4I-32H-O268 - Hz - Plan #1	768.0	767.2	33.5	30.7	12.174	CC, ES
Hwy 52 4I-32H-O268 - Hz - Plan #1	800.0	798.9	33.7	30.9	11.745	SF
Hwy 52 4J-32H-O268 - Hz - Plan #1	819.7	817.6	45.2	42.4	15.701	CC, ES
Hwy 52 4J-32H-O268 - Hz - Plan #1	1,000.0	996.2	50.0	46.5	14.106	SF
Hwy 52 4K-32H-O268 - Hz - Plan #1	400.0	399.0	55.3	54.0	41.222	CC, ES
Hwy 52 4K-32H-O268 - Hz - Plan #1	7,819.4	7,836.3	146.7	118.2	5.142	SF
Hwy 52 4L-32H-O268 - Hz - Plan #1	933.3	928.7	57.1	53.9	17.752	CC, ES
Hwy 52 4L-32H-O268 - Hz - Plan #1	7,471.0	7,834.2	101.9	75.1	3.809	SF
Hwy 52 4M-32H-O268 - Hz - Plan #1	1,025.0	1,018.8	73.5	69.9	20.811	CC, ES
Hwy 52 4M-32H-O268 - Hz - Plan #1	7,900.0	7,806.1	393.0	363.8	13.480	SF
Hwy 52 4N-32H-O268 - Hz - Plan #1	1,120.4	1,113.9	72.2	68.3	18.697	CC, ES
Hwy 52 4N-32H-O268 - Hz - Plan #1	1,400.0	1,389.3	80.4	75.5	16.465	SF
Hwy 52 4O-32H-O268 - Hz - Plan #1	400.0	399.0	90.1	88.8	67.144	CC, ES
Hwy 52 4O-32H-O268 - Hz - Plan #1	1,300.0	1,282.9	118.3	113.8	26.313	SF
Hwy 52 4P-32H-O268 - Hz - Plan #1	200.0	199.0	95.7	95.0	148.578	CC, ES
Hwy 52 4P-32H-O268 - Hz - Plan #1	1,300.0	1,274.6	157.0	152.5	35.139	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

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S32-T2N-R68W (File/Hwy 52)						
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO						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	1,293.5	1,256.9	386.4	382.0	87.016	CC
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN	1,300.0	1,262.7	386.4	381.9	86.560	ES
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN	2,300.0	2,188.1	492.6	483.6	55.100	SF
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN	2,831.6	2,816.2	70.1	59.6	6.650	CC, ES
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN	2,900.0	2,883.6	71.2	60.4	6.551	SF
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	140.9	131.3	435.0	434.6	1,027.869	CC, ES
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	900.0	806.8	492.4	489.4	167.817	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	3,951.5	4,111.7	212.7	180.4	6.583	CC, ES
RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PL	4,000.0	4,154.9	213.9	181.2	6.541	SF
RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PL	8,155.8	7,865.6	352.5	305.4	7.479	CC, ES
RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PL	8,200.0	7,865.6	355.3	307.7	7.457	SF
Ray Nelson 7-8-32 - DD - Plan #1	1,000.0	958.0	436.8	433.3	124.676	CC, ES
Ray Nelson 7-8-32 - DD - Plan #1	2,000.0	1,927.8	498.1	490.2	62.662	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	440.3			
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU	1,000.0	904.3	496.9	493.1	131.616	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						Out of range
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:		0.0 ft	
Survey Program: 777-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	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
8,700.0	7,712.0	7,953.0	7,814.7	26.4	26.0	90.74	-1,242.2	72.7	462.2	423.3	38.96	11.865				
8,800.0	7,712.0	7,951.0	7,812.7	27.8	26.0	90.48	-1,242.2	72.7	441.9	401.5	40.45	10.925				
8,841.8	7,712.0	7,950.2	7,811.9	28.4	26.0	90.37	-1,242.3	72.7	440.0	398.9	41.09	10.708 CC, ES				
8,900.0	7,712.0	7,949.0	7,810.7	29.3	26.0	90.22	-1,242.3	72.7	443.8	401.8	41.97	10.573 SF				
9,000.0	7,712.0	7,947.0	7,808.7	30.7	26.0	89.96	-1,242.3	72.7	467.5	424.0	43.52	10.743				

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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 (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	62.30	201.5	383.9	433.7				
100.0	100.0	86.6	86.6	0.1	0.1	62.34	201.5	384.4	434.1	433.8	0.27	1,585.659	
200.0	200.0	185.8	185.7	0.3	0.3	62.41	201.5	385.5	435.0	434.3	0.62	698.897	
300.0	300.0	287.5	287.5	0.5	0.5	62.51	201.2	386.6	435.8	434.8	0.98	446.908	
400.0	400.0	398.7	398.6	0.7	0.7	62.79	198.9	386.8	435.1	433.7	1.34	324.107	
500.0	500.0	506.1	505.8	0.8	0.9	63.54	192.4	386.6	432.1	430.4	1.70	253.629	
600.0	600.0	613.5	612.6	1.0	1.1	-11.43	180.5	387.0	426.8	424.6	2.16	197.826	
700.0	700.0	716.4	714.1	1.2	1.5	-9.39	163.9	388.0	418.4	415.8	2.63	158.903	
800.0	799.9	808.2	804.4	1.4	1.8	-7.27	147.4	389.8	409.3	406.2	3.10	131.901	
900.0	899.7	903.4	897.8	1.6	2.1	-4.83	129.7	393.5	400.5	396.9	3.61	110.826	
1,000.0	999.4	1,000.7	993.1	1.8	2.5	-1.99	110.2	398.0	391.6	387.4	4.18	93.720	
1,100.0	1,099.1	1,094.0	1,083.4	2.0	2.9	1.44	87.8	403.6	384.2	379.4	4.79	80.184	
1,200.0	1,198.8	1,180.5	1,166.6	2.2	3.3	5.08	64.8	410.8	380.3	374.9	5.39	70.574	
1,233.8	1,232.5	1,209.3	1,194.1	2.3	3.5	6.31	57.1	413.8	380.0	374.4	5.59	67.979 CC, ES	
1,300.0	1,298.5	1,265.1	1,247.5	2.4	3.8	8.76	42.0	420.3	381.1	375.1	5.98	63.726	
1,400.0	1,398.3	1,350.5	1,328.8	2.6	4.2	12.48	18.9	432.2	386.9	380.3	6.54	59.121	
1,500.0	1,498.0	1,434.7	1,408.8	2.8	4.7	15.90	-3.1	446.3	397.3	390.2	7.07	56.210	
1,600.0	1,597.7	1,523.2	1,492.6	3.0	5.2	19.31	-26.2	463.2	411.9	404.3	7.59	54.299	
1,700.0	1,697.4	1,613.4	1,577.6	3.2	5.7	22.55	-49.8	481.6	429.4	421.4	8.06	53.287	
1,800.0	1,797.1	1,699.2	1,658.4	3.5	6.2	25.31	-71.8	500.5	449.8	441.3	8.49	52.961 SF	
1,900.0	1,896.9	1,783.9	1,737.4	3.7	6.8	27.91	-94.6	520.7	473.4	464.5	8.91	53.126	
2,000.0	1,996.6	1,880.2	1,826.6	3.9	7.4	30.85	-122.8	543.8	499.2	489.9	9.35	53.383	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	102.38	-18.1	82.5	102.5					
100.0	100.0	42.0	42.0	0.1	0.1	102.38	-18.1	82.5	84.5	84.3	0.22	380.861		
200.0	200.0	142.0	142.0	0.3	0.2	102.38	-18.1	82.5	84.5	83.9	0.57	148.000		
300.0	300.0	242.0	242.0	0.5	0.4	102.38	-18.1	82.5	84.5	83.6	0.92	91.846		
400.0	400.0	342.0	342.0	0.7	0.6	102.38	-18.1	82.5	84.5	83.2	1.27	66.583		
500.0	500.0	442.0	442.0	0.8	0.8	102.38	-18.1	82.5	84.5	82.9	1.62	52.219		
600.0	600.0	542.0	542.0	1.0	0.9	26.25	-18.1	82.5	83.7	81.7	1.97	42.556		
700.0	700.0	642.0	642.0	1.2	1.1	27.08	-18.1	82.5	81.4	79.1	2.32	35.132		
800.0	799.9	741.9	741.9	1.4	1.3	28.56	-18.1	82.5	77.5	74.8	2.67	29.072		
900.0	899.7	841.7	841.7	1.6	1.5	30.91	-18.1	82.5	72.2	69.2	3.02	23.920		
1,000.0	999.4	941.4	941.4	1.8	1.6	34.23	-18.1	82.5	65.9	62.6	3.38	19.528		
1,100.0	1,099.1	1,041.1	1,041.1	2.0	1.8	38.28	-18.1	82.5	59.9	56.1	3.74	16.005		
1,200.0	1,198.8	1,140.8	1,140.8	2.2	2.0	43.21	-18.1	82.5	54.2	50.0	4.11	13.172		
1,300.0	1,298.5	1,240.5	1,240.5	2.4	2.2	49.24	-18.1	82.5	48.9	44.4	4.49	10.894		
1,400.0	1,398.3	1,340.3	1,340.3	2.6	2.3	56.59	-18.1	82.5	44.4	39.5	4.89	9.087		
1,500.0	1,498.0	1,440.0	1,440.0	2.8	2.5	65.43	-18.1	82.5	40.7	35.4	5.29	7.701		
1,600.0	1,597.7	1,539.7	1,539.7	3.0	2.7	75.71	-18.1	82.5	38.2	32.5	5.70	6.706		
1,700.0	1,697.4	1,639.4	1,639.4	3.2	2.9	87.01	-18.1	82.5	37.1	31.0	6.10	6.078		
1,725.8	1,723.1	1,665.1	1,665.1	3.3	2.9	90.00	-18.1	82.5	37.0	30.8	6.20	5.971 CC, ES		
1,800.0	1,797.1	1,739.1	1,739.1	3.5	3.0	98.55	-18.1	82.5	37.4	31.0	6.48	5.777		
1,900.0	1,896.9	1,838.9	1,838.9	3.7	3.2	109.43	-18.1	82.5	39.3	32.4	6.84	5.745 SF		
2,000.0	1,996.6	1,938.6	1,938.6	3.9	3.4	119.04	-18.1	82.5	42.4	35.2	7.17	5.910		
2,100.0	2,096.3	2,038.3	2,038.3	4.1	3.6	127.15	-18.1	82.5	46.5	39.0	7.49	6.207		
2,200.0	2,196.0	2,138.0	2,138.0	4.3	3.7	133.84	-18.1	82.5	51.4	43.6	7.81	6.581		
2,300.0	2,295.7	2,237.7	2,237.7	4.5	3.9	139.30	-18.1	82.5	56.9	48.7	8.13	6.997		
2,400.0	2,395.4	2,337.4	2,337.4	4.7	4.1	143.78	-18.1	82.5	62.8	54.3	8.45	7.428		
2,500.0	2,495.2	2,437.2	2,437.2	5.0	4.3	147.47	-18.1	82.5	69.0	60.2	8.78	7.861		
2,600.0	2,594.9	2,536.9	2,536.9	5.2	4.4	150.54	-18.1	82.5	75.4	66.3	9.10	8.286		
2,700.0	2,694.6	2,636.6	2,636.6	5.4	4.6	153.12	-18.1	82.5	82.1	72.6	9.44	8.698		
2,800.0	2,794.3	2,736.3	2,736.3	5.6	4.8	155.31	-18.1	82.5	88.8	79.1	9.77	9.094		
2,900.0	2,894.0	2,836.0	2,836.0	5.8	4.9	157.19	-18.1	82.5	95.7	85.6	10.11	9.473		
3,000.0	2,993.7	2,935.7	2,935.7	6.0	5.1	158.81	-18.1	82.5	102.7	92.3	10.44	9.834		
3,100.0	3,093.5	3,035.5	3,035.5	6.3	5.3	160.23	-18.1	82.5	109.7	99.0	10.78	10.178		
3,200.0	3,193.2	3,135.2	3,135.2	6.5	5.5	161.48	-18.1	82.5	116.9	105.7	11.12	10.505		
3,300.0	3,292.9	3,234.9	3,234.9	6.7	5.6	162.58	-18.1	82.5	124.0	112.5	11.46	10.817		
3,400.0	3,392.6	3,334.6	3,334.6	6.9	5.8	163.57	-18.1	82.5	131.2	119.4	11.81	11.112		
3,500.0	3,492.3	3,434.3	3,434.3	7.1	6.0	164.45	-18.1	82.5	138.4	126.3	12.15	11.394		
3,600.0	3,592.0	3,534.0	3,534.0	7.4	6.2	165.24	-18.1	82.5	145.7	133.2	12.49	11.661		
3,700.0	3,691.8	3,633.8	3,633.8	7.6	6.3	165.96	-18.1	82.5	153.0	140.1	12.84	11.916		
3,800.0	3,791.5	3,733.5	3,733.5	7.8	6.5	166.61	-18.1	82.5	160.3	147.1	13.18	12.159		
3,900.0	3,891.2	3,833.2	3,833.2	8.0	6.7	167.20	-18.1	82.5	167.6	154.1	13.53	12.390		
4,000.0	3,990.9	3,932.9	3,932.9	8.2	6.9	167.75	-18.1	82.5	174.9	161.1	13.87	12.611		
4,100.0	4,090.6	4,032.6	4,032.6	8.4	7.0	168.25	-18.1	82.5	182.3	168.1	14.22	12.822		
4,200.0	4,190.3	4,132.3	4,132.3	8.7	7.2	168.71	-18.1	82.5	189.7	175.1	14.56	13.024		
4,300.0	4,290.1	4,232.1	4,232.1	8.9	7.4	169.14	-18.1	82.5	197.0	182.1	14.91	13.216		
4,400.0	4,389.8	4,331.8	4,331.8	9.1	7.6	169.54	-18.1	82.5	204.4	189.2	15.25	13.401		
4,500.0	4,489.5	4,431.5	4,431.5	9.3	7.7	169.91	-18.1	82.5	211.8	196.2	15.60	13.578		
4,600.0	4,589.2	4,531.2	4,531.2	9.5	7.9	170.25	-18.1	82.5	219.2	203.3	15.95	13.747		
4,700.0	4,688.9	4,630.9	4,630.9	9.7	8.1	170.57	-18.1	82.5	226.6	210.4	16.29	13.910		
4,800.0	4,788.6	4,730.6	4,730.6	10.0	8.3	170.87	-18.1	82.5	234.1	217.4	16.64	14.066		
4,900.0	4,888.4	4,830.4	4,830.4	10.2	8.4	171.16	-18.1	82.5	241.5	224.5	16.99	14.216		
5,000.0	4,988.1	4,930.1	4,930.1	10.4	8.6	171.42	-18.1	82.5	248.9	231.6	17.33	14.360		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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)				
5,100.0	5,087.8	5,029.8	5,029.8	10.6	8.8	171.67	-18.1	82.5	256.4	238.7	17.68	14.499		
5,200.0	5,187.5	5,129.5	5,129.5	10.8	9.0	171.91	-18.1	82.5	263.8	245.8	18.03	14.632		
5,300.0	5,287.2	5,229.2	5,229.2	11.1	9.1	172.13	-18.1	82.5	271.2	252.9	18.38	14.761		
5,400.0	5,386.9	5,328.9	5,328.9	11.3	9.3	172.34	-18.1	82.5	278.7	260.0	18.72	14.885		
5,500.0	5,486.7	5,428.7	5,428.7	11.5	9.5	172.55	-18.1	82.5	286.2	267.1	19.07	15.005		
5,600.0	5,586.4	5,528.4	5,528.4	11.7	9.6	172.74	-18.1	82.5	293.6	274.2	19.42	15.120		
5,700.0	5,686.1	5,628.1	5,628.1	11.9	9.8	172.92	-18.1	82.5	301.1	281.3	19.77	15.232		
5,800.0	5,785.8	5,727.8	5,727.8	12.1	10.0	173.09	-18.1	82.5	308.5	288.4	20.11	15.340		
5,900.0	5,885.5	5,827.5	5,827.5	12.4	10.2	173.25	-18.1	82.5	316.0	295.5	20.46	15.444		
6,000.0	5,985.2	5,927.2	5,927.2	12.6	10.3	173.41	-18.1	82.5	323.5	302.7	20.81	15.545		
6,100.0	6,085.0	6,027.0	6,027.0	12.8	10.5	173.56	-18.1	82.5	330.9	309.8	21.16	15.643		
6,200.0	6,184.7	6,126.7	6,126.7	13.0	10.7	173.70	-18.1	82.5	338.4	316.9	21.50	15.737		
6,300.0	6,284.4	6,226.4	6,226.4	13.2	10.9	173.84	-18.1	82.5	345.9	324.0	21.85	15.829		
6,400.0	6,384.1	6,326.1	6,326.1	13.5	11.0	173.97	-18.1	82.5	353.4	331.2	22.20	15.918		
6,500.0	6,483.8	6,425.8	6,425.8	13.7	11.2	174.09	-18.1	82.5	360.8	338.3	22.55	16.004		
6,600.0	6,583.6	6,525.6	6,525.6	13.9	11.4	174.21	-18.1	82.5	368.3	345.4	22.89	16.088		
6,700.0	6,683.3	6,625.3	6,625.3	14.1	11.6	174.33	-18.1	82.5	375.8	352.5	23.24	16.169		
6,800.0	6,783.0	6,725.0	6,725.0	14.3	11.7	174.44	-18.1	82.5	383.3	359.7	23.59	16.248		
6,900.0	6,882.7	6,824.7	6,824.7	14.5	11.9	174.55	-18.1	82.5	390.8	366.8	23.94	16.324		
7,000.0	6,982.4	6,924.4	6,924.4	14.8	12.1	174.65	-18.1	82.5	398.2	374.0	24.29	16.398		
7,100.0	7,082.1	7,024.1	7,024.1	15.0	12.3	174.75	-18.1	82.5	405.7	381.1	24.63	16.471		
7,200.0	7,181.8	7,123.8	7,123.8	15.2	12.4	116.72	-18.1	82.5	412.5	387.5	25.00	16.500		
7,300.0	7,280.2	7,222.2	7,222.2	15.4	12.6	90.13	-18.1	82.5	414.7	389.3	25.33	16.367		
7,400.0	7,374.3	7,316.3	7,316.3	15.5	12.8	88.04	-18.1	82.5	413.6	387.9	25.66	16.120		
7,469.5	7,435.6	7,377.6	7,377.6	15.6	12.9	90.00	-18.1	82.5	412.9	387.0	25.91	15.933		
7,500.0	7,461.3	7,403.3	7,403.3	15.7	12.9	91.27	-18.1	82.5	413.1	387.1	26.00	15.889		
7,600.0	7,538.5	7,480.5	7,480.5	15.9	13.1	96.03	-18.1	82.5	418.5	392.2	26.33	15.897		
7,700.0	7,603.7	7,545.7	7,545.7	16.3	13.2	100.15	-18.1	82.5	435.2	408.5	26.63	16.344		
7,800.0	7,654.8	7,596.8	7,596.8	16.8	13.3	102.08	-18.1	82.5	466.8	439.8	27.06	17.250		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - FOSTER 33-5 (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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
11,400.0	7,712.0	7,990.0	7,737.0	70.2	30.9	87.89	-3,963.3	52.6	488.3	390.2	98.15	4.975		
11,500.0	7,712.0	7,991.1	7,738.1	71.9	30.9	88.02	-3,963.3	52.6	464.6	364.8	99.88	4.652		
11,562.8	7,712.0	7,991.8	7,738.8	73.0	30.9	88.11	-3,963.3	52.6	460.4	359.4	100.97	4.560 CC, ES		
11,600.0	7,712.0	7,992.2	7,739.2	73.6	30.9	88.16	-3,963.4	52.5	461.9	360.3	101.61	4.545 SF		
11,700.0	7,712.0	7,993.3	7,740.3	75.4	30.9	88.29	-3,963.4	52.5	480.4	377.0	103.35	4.648		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - FOSTER 4-5 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 73-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		
11,800.0	7,712.0	7,844.4	7,761.9	77.1	19.8	-91.03	-4,592.5	672.9	423.5	327.2	96.31	4.397		
11,900.0	7,712.0	7,842.5	7,760.0	78.8	19.8	-90.35	-4,592.5	672.9	333.1	235.0	98.05	3.397		
12,000.0	7,712.0	7,840.6	7,758.1	80.5	19.8	-89.69	-4,592.5	672.8	250.1	150.3	99.78	2.506		
12,100.0	7,712.0	7,838.8	7,756.3	82.2	19.8	-89.02	-4,592.6	672.8	184.7	83.2	101.50	1.820		
12,192.1	7,712.0	7,837.1	7,754.6	83.8	19.8	-88.42	-4,592.6	672.7	160.1	57.0	103.07	1.553 CC, ES		
12,200.0	7,712.0	7,836.9	7,754.4	84.0	19.8	-88.36	-4,592.6	672.7	160.3	57.1	103.20	1.553 SF		
12,300.0	7,712.0	7,835.1	7,752.6	85.7	19.8	-87.71	-4,592.6	672.7	193.1	88.2	104.89	1.841		
12,400.0	7,712.0	7,833.3	7,750.8	87.4	19.8	-87.06	-4,592.7	672.6	262.4	155.8	106.57	2.462		
12,500.0	7,712.0	7,831.5	7,749.0	89.1	19.8	-86.41	-4,592.7	672.6	347.0	238.8	108.24	3.206		
12,600.0	7,712.0	7,829.6	7,747.1	90.9	19.8	-85.75	-4,592.7	672.5	438.1	328.2	109.89	3.987		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - FOSTER 6-4-5X (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 42-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,600.0	7,712.0	8,157.8	7,773.4	56.6	37.8	-93.79	-3,352.1	745.5	422.0	328.5	93.57	4.510		
10,700.0	7,712.0	8,152.9	7,768.5	58.3	37.8	-92.59	-3,352.4	745.5	343.2	247.8	95.37	3.598		
10,800.0	7,712.0	8,147.9	7,763.6	60.0	37.8	-91.38	-3,352.6	745.5	278.1	181.0	97.14	2.863		
10,900.0	7,712.0	8,143.0	7,758.7	61.7	37.8	-90.17	-3,352.9	745.4	238.6	139.7	98.88	2.413		
10,952.5	7,712.0	8,140.4	7,756.1	62.6	37.8	-89.53	-3,353.0	745.4	232.7	133.0	99.77	2.333 CC, ES, SF		
11,000.0	7,712.0	8,138.0	7,753.7	63.4	37.8	-88.94	-3,353.1	745.4	237.5	136.9	100.57	2.362		
11,100.0	7,712.0	8,133.0	7,748.7	65.1	37.8	-87.71	-3,353.4	745.3	275.4	173.2	102.22	2.694		
11,200.0	7,712.0	8,127.9	7,743.7	66.8	37.8	-86.47	-3,353.6	745.3	339.5	235.7	103.83	3.270		
11,300.0	7,712.0	8,122.8	7,738.6	68.5	37.8	-85.22	-3,353.9	745.2	417.9	312.5	105.38	3.965		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> S32-T2N-R68W (File/Hwy 52) - FOSTER 6-8-5 (EXISTING) - ENCANA WELL - SURVEYS													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 71-Geolink MWD													<b>Offset Well Error:</b>	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	
13,000.0	7,712.0	7,806.1	7,771.4	97.8	15.2	-95.53	-5,797.1	659.1	423.0	311.0	112.07	3.775		
13,091.6	7,712.0	7,803.3	7,768.6	99.4	15.2	-94.44	-5,797.2	659.1	338.6	224.8	113.83	2.975 CC, ES, SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) - FOSTER E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS		Offset Site Error:		0.0 ft
Survey Program:													8575-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft) +E/-W (ft)		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
12,600.0	7,712.0	7,756.0	7,756.0	90.9	13.5	-90.00	-5,371.5	736.6	433.3	329.4	103.92	4.170					
12,700.0	7,712.0	7,756.0	7,756.0	92.6	13.5	-90.00	-5,371.5	736.6	351.5	245.9	105.66	3.327					
12,800.0	7,712.0	7,756.0	7,756.0	94.3	13.5	-90.00	-5,371.5	736.6	281.7	174.3	107.39	2.623					
12,900.0	7,712.0	7,756.0	7,756.0	96.0	13.5	-90.00	-5,371.5	736.6	234.9	125.7	109.13	2.152					
12,971.0	7,712.0	7,756.0	7,756.0	97.3	13.5	-90.00	-5,371.5	736.6	223.9	113.5	110.36	2.029	CC, ES, SF				
13,000.0	7,712.0	7,756.0	7,756.0	97.8	13.5	-90.00	-5,371.5	736.6	225.7	114.9	110.87	2.036					
13,091.6	7,712.0	7,756.0	7,756.0	99.4	13.5	-90.00	-5,371.5	736.6	254.3	141.8	112.46	2.261					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4A-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	1.0	1.0	0.0	0.0	-111.49	-5.9	-15.0	16.2					
100.0	100.0	101.0	101.0	0.1	0.2	-111.49	-5.9	-15.0	16.2	15.9	0.30	54.131		
166.3	166.3	167.3	167.3	0.3	0.3	-111.49	-5.9	-15.0	16.2	15.6	0.53	30.483 CC		
200.0	200.0	201.0	201.0	0.3	0.3	-111.49	-5.9	-15.0	16.2	15.5	0.65	24.950 ES		
300.0	300.0	300.8	300.8	0.5	0.5	-109.76	-5.7	-15.9	16.9	15.9	1.00	16.940		
400.0	400.0	400.5	400.4	0.7	0.7	-105.44	-5.1	-18.4	19.1	17.8	1.35	14.172		
500.0	500.0	500.0	499.9	0.8	0.9	-100.18	-4.1	-22.7	23.1	21.3	1.71	13.467 SF		
600.0	600.0	599.4	599.0	1.0	1.1	-171.91	-2.6	-28.6	29.6	27.6	2.05	14.473		
700.0	700.0	698.7	698.1	1.2	1.3	-168.85	-0.9	-35.8	39.3	36.9	2.39	16.434		
800.0	799.9	798.0	797.1	1.4	1.5	-167.39	0.9	-43.2	50.9	48.2	2.74	18.587		
900.0	899.7	897.1	895.9	1.6	1.7	-166.83	2.7	-50.5	64.3	61.2	3.09	20.810		
1,000.0	999.4	996.0	994.6	1.8	1.9	-166.70	4.5	-57.9	78.9	75.4	3.44	22.946		
1,100.0	1,099.1	1,094.9	1,093.2	2.0	2.1	-166.62	6.2	-65.2	93.6	89.8	3.79	24.701		
1,200.0	1,198.8	1,193.9	1,191.8	2.2	2.3	-166.57	8.0	-72.5	108.2	104.1	4.14	26.158		
1,300.0	1,298.5	1,292.8	1,290.4	2.4	2.5	-166.53	9.8	-79.9	122.9	118.4	4.49	27.386		
1,400.0	1,398.3	1,391.7	1,389.1	2.6	2.8	-166.50	11.6	-87.2	137.6	132.8	4.84	28.436		
1,500.0	1,498.0	1,490.6	1,487.7	2.8	3.0	-166.47	13.4	-94.6	152.3	147.1	5.19	29.343		
1,600.0	1,597.7	1,589.5	1,586.3	3.0	3.2	-166.45	15.1	-101.9	167.0	161.5	5.54	30.134		
1,700.0	1,697.4	1,688.4	1,684.9	3.2	3.4	-166.44	16.9	-109.2	181.7	175.8	5.89	30.831		
1,800.0	1,797.1	1,787.3	1,783.6	3.5	3.6	-166.42	18.7	-116.6	196.4	190.1	6.24	31.450		
1,900.0	1,896.9	1,886.3	1,882.2	3.7	3.8	-166.41	20.5	-123.9	211.1	204.5	6.60	32.002		
2,000.0	1,996.6	1,985.2	1,980.8	3.9	4.1	-166.40	22.3	-131.3	225.8	218.8	6.95	32.498		
2,100.0	2,096.3	2,084.1	2,079.4	4.1	4.3	-166.39	24.1	-138.6	240.4	233.1	7.30	32.946		
2,200.0	2,196.0	2,183.0	2,178.1	4.3	4.5	-166.38	25.8	-145.9	255.1	247.5	7.65	33.353		
2,300.0	2,295.7	2,281.9	2,276.7	4.5	4.7	-166.37	27.6	-153.3	269.8	261.8	8.00	33.724		
2,400.0	2,395.4	2,380.8	2,375.3	4.7	4.9	-166.36	29.4	-160.6	284.5	276.2	8.35	34.064		
2,500.0	2,495.2	2,479.8	2,474.0	5.0	5.1	-166.36	31.2	-168.0	299.2	290.5	8.70	34.376		
2,600.0	2,594.9	2,578.7	2,572.6	5.2	5.4	-166.35	33.0	-175.3	313.9	304.8	9.05	34.664		
2,700.0	2,694.6	2,677.6	2,671.2	5.4	5.6	-166.35	34.7	-182.6	328.6	319.2	9.41	34.930		
2,800.0	2,794.3	2,776.5	2,769.8	5.6	5.8	-166.34	36.5	-190.0	343.3	333.5	9.76	35.178		
2,900.0	2,894.0	2,875.4	2,868.5	5.8	6.0	-166.34	38.3	-197.3	357.9	347.8	10.11	35.407		
3,000.0	2,993.7	2,974.3	2,967.1	6.0	6.2	-166.33	40.1	-204.7	372.6	362.2	10.46	35.622		
3,100.0	3,093.5	3,073.3	3,065.7	6.3	6.4	-166.33	41.9	-212.0	387.3	376.5	10.81	35.822		
3,200.0	3,193.2	3,172.2	3,164.3	6.5	6.7	-166.33	43.6	-219.4	402.0	390.8	11.16	36.010		
3,300.0	3,292.9	3,271.1	3,263.0	6.7	6.9	-166.32	45.4	-226.7	416.7	405.2	11.52	36.186		
3,400.0	3,392.6	3,370.0	3,361.6	6.9	7.1	-166.32	47.2	-234.0	431.4	419.5	11.87	36.352		
3,500.0	3,492.3	3,468.9	3,460.2	7.1	7.3	-166.32	49.0	-241.4	446.1	433.9	12.22	36.508		
3,600.0	3,592.0	3,567.8	3,558.8	7.4	7.5	-166.31	50.8	-248.7	460.8	448.2	12.57	36.656		
3,700.0	3,691.8	3,666.7	3,657.5	7.6	7.7	-166.31	52.5	-256.1	475.4	462.5	12.92	36.795		
3,800.0	3,791.5	3,765.7	3,756.1	7.8	8.0	-166.31	54.3	-263.4	490.1	476.9	13.27	36.927		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	-89.69	0.1	-10.0	10.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.69	0.1	-10.0	10.0	9.7	0.30	33.703		
200.0	200.0	200.0	200.0	0.3	0.3	-89.69	0.1	-10.0	10.0	9.4	0.65	15.485 CC, ES		
300.0	300.0	299.8	299.8	0.5	0.5	-87.84	0.4	-10.8	10.8	9.8	1.00	10.853		
400.0	400.0	399.6	399.6	0.7	0.7	-83.65	1.5	-13.2	13.3	11.9	1.35	9.831 SF		
500.0	500.0	499.4	499.3	0.8	0.9	-79.63	3.1	-16.8	17.1	15.4	1.71	10.009		
600.0	600.0	599.3	599.1	1.0	1.0	-154.43	4.7	-20.5	21.8	19.8	2.04	10.700		
700.0	700.0	699.1	698.8	1.2	1.2	-154.98	6.4	-24.2	28.2	25.8	2.39	11.789		
800.0	799.9	798.8	798.4	1.4	1.4	-156.47	8.0	-27.9	36.1	33.4	2.74	13.179		
900.0	899.7	898.3	897.9	1.6	1.6	-158.26	9.7	-31.6	45.7	42.6	3.09	14.779		
1,000.0	999.4	997.7	997.2	1.8	1.8	-159.91	11.3	-35.3	56.5	53.1	3.44	16.417		
1,100.0	1,099.1	1,097.1	1,096.5	2.0	2.0	-161.06	12.9	-39.0	67.4	63.6	3.79	17.776		
1,200.0	1,198.8	1,196.5	1,195.8	2.2	2.2	-161.89	14.6	-42.7	78.4	74.2	4.15	18.909		
1,300.0	1,298.5	1,295.9	1,295.1	2.4	2.4	-162.52	16.2	-46.4	89.4	84.9	4.50	19.867		
1,400.0	1,398.3	1,395.3	1,394.4	2.6	2.5	-163.01	17.9	-50.1	100.3	95.5	4.85	20.688		
1,500.0	1,498.0	1,494.7	1,493.8	2.8	2.7	-163.40	19.5	-53.8	111.3	106.1	5.20	21.398		
1,600.0	1,597.7	1,594.1	1,593.1	3.0	2.9	-163.72	21.1	-57.5	122.3	116.8	5.55	22.019		
1,700.0	1,697.4	1,693.5	1,692.4	3.2	3.1	-163.99	22.8	-61.2	133.3	127.4	5.91	22.567		
1,800.0	1,797.1	1,792.9	1,791.7	3.5	3.3	-164.22	24.4	-64.9	144.3	138.0	6.26	23.053		
1,900.0	1,896.9	1,892.3	1,891.0	3.7	3.5	-164.42	26.1	-68.5	155.3	148.7	6.61	23.488		
2,000.0	1,996.6	1,991.7	1,990.3	3.9	3.7	-164.59	27.7	-72.2	166.3	159.3	6.96	23.879		
2,100.0	2,096.3	2,091.1	2,089.6	4.1	3.8	-164.74	29.4	-75.9	177.3	170.0	7.32	24.232		
2,200.0	2,196.0	2,190.4	2,188.9	4.3	4.0	-164.87	31.0	-79.6	188.3	180.6	7.67	24.553		
2,300.0	2,295.7	2,289.8	2,288.2	4.5	4.2	-164.99	32.6	-83.3	199.3	191.3	8.02	24.846		
2,400.0	2,395.4	2,389.2	2,387.5	4.7	4.4	-165.09	34.3	-87.0	210.3	201.9	8.37	25.114		
2,500.0	2,495.2	2,488.6	2,486.9	5.0	4.6	-165.18	35.9	-90.7	221.3	212.6	8.73	25.361		
2,600.0	2,594.9	2,588.0	2,586.2	5.2	4.8	-165.27	37.6	-94.4	232.3	223.2	9.08	25.589		
2,700.0	2,694.6	2,687.4	2,685.5	5.4	5.0	-165.35	39.2	-98.1	243.3	233.9	9.43	25.800		
2,800.0	2,794.3	2,786.8	2,784.8	5.6	5.2	-165.42	40.8	-101.8	254.3	244.5	9.78	25.995		
2,900.0	2,894.0	2,886.2	2,884.1	5.8	5.3	-165.48	42.5	-105.5	265.3	255.2	10.14	26.177		
3,000.0	2,993.7	2,985.6	2,983.4	6.0	5.5	-165.54	44.1	-109.2	276.3	265.8	10.49	26.347		
3,100.0	3,093.5	3,085.0	3,082.7	6.3	5.7	-165.60	45.8	-112.9	287.3	276.5	10.84	26.506		
3,200.0	3,193.2	3,184.4	3,182.0	6.5	5.9	-165.65	47.4	-116.6	298.3	287.1	11.19	26.654		
3,300.0	3,292.9	3,283.8	3,281.3	6.7	6.1	-165.70	49.0	-120.2	309.3	297.8	11.54	26.794		
3,400.0	3,392.6	3,383.2	3,380.7	6.9	6.3	-165.74	50.7	-123.9	320.3	308.4	11.90	26.926		
3,500.0	3,492.3	3,482.5	3,480.0	7.1	6.5	-165.78	52.3	-127.6	331.3	319.1	12.25	27.050		
3,600.0	3,592.0	3,581.9	3,579.3	7.4	6.7	-165.82	54.0	-131.3	342.4	329.8	12.60	27.166		
3,700.0	3,691.8	3,681.3	3,678.6	7.6	6.8	-165.86	55.6	-135.0	353.4	340.4	12.95	27.277		
3,800.0	3,791.5	3,780.7	3,777.9	7.8	7.0	-165.89	57.3	-138.7	364.4	351.1	13.31	27.382		
3,900.0	3,891.2	3,880.1	3,877.2	8.0	7.2	-165.92	58.9	-142.4	375.4	361.7	13.66	27.481		
4,000.0	3,990.9	3,979.5	3,976.5	8.2	7.4	-165.95	60.5	-146.1	386.4	372.4	14.01	27.576		
4,100.0	4,090.6	4,078.9	4,075.8	8.4	7.6	-165.98	62.2	-149.8	397.4	383.0	14.36	27.665		
4,200.0	4,190.3	4,178.3	4,175.1	8.7	7.8	-166.01	63.8	-153.5	408.4	393.7	14.72	27.751		
4,300.0	4,290.1	4,277.7	4,274.4	8.9	8.0	-166.04	65.5	-157.2	419.4	404.3	15.07	27.832		
4,400.0	4,389.8	4,377.1	4,373.8	9.1	8.2	-166.06	67.1	-160.9	430.4	415.0	15.42	27.910		
4,500.0	4,489.5	4,476.5	4,473.1	9.3	8.3	-166.08	68.7	-164.6	441.4	425.6	15.77	27.984		
4,600.0	4,589.2	4,575.9	4,572.4	9.5	8.5	-166.11	70.4	-168.3	452.4	436.3	16.13	28.056		
4,700.0	4,688.9	4,675.3	4,671.7	9.7	8.7	-166.13	72.0	-171.9	463.4	446.9	16.48	28.124		
4,800.0	4,788.6	4,774.6	4,771.0	10.0	8.9	-166.15	73.7	-175.6	474.4	457.6	16.83	28.189		
4,900.0	4,888.4	4,874.0	4,870.3	10.2	9.1	-166.17	75.3	-179.3	485.4	468.3	17.18	28.251		
5,000.0	4,988.1	4,973.4	4,969.6	10.4	9.3	-166.18	76.9	-183.0	496.4	478.9	17.54	28.311		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	-139.89	-6.0	-5.0	7.8					
100.0	100.0	100.0	100.0	0.1	0.1	-139.89	-6.0	-5.0	7.8	7.5	0.30	26.323		
200.0	200.0	200.0	200.0	0.3	0.3	-139.89	-6.0	-5.0	7.8	7.2	0.65	12.094		
300.0	300.0	300.0	300.0	0.5	0.5	-139.89	-6.0	-5.0	7.8	6.8	0.99	7.851		
400.0	400.0	400.0	400.0	0.7	0.7	-139.89	-6.0	-5.0	7.8	6.5	1.34	5.812		
500.0	500.0	500.0	500.0	0.8	0.8	-139.89	-6.0	-5.0	7.8	6.1	1.69	4.613		
600.0	600.0	600.1	600.1	1.0	1.0	145.29	-5.5	-4.3	7.7	5.7	2.04	3.769		
681.5	681.4	681.7	681.6	1.2	1.2	149.15	-4.6	-2.6	7.5	5.2	2.33	3.222 CC		
700.0	700.0	700.2	700.2	1.2	1.2	150.53	-4.3	-2.1	7.5	5.1	2.39	3.147 ES		
800.0	799.9	800.2	800.1	1.4	1.4	160.32	-2.9	0.3	8.7	6.0	2.74	3.181		
900.0	899.7	900.1	900.0	1.6	1.6	169.42	-1.6	2.8	11.8	8.7	3.09	3.825		
1,000.0	999.4	1,000.0	999.9	1.8	1.7	175.10	-0.2	5.2	16.4	13.0	3.44	4.773		
1,100.0	1,099.1	1,099.9	1,099.7	2.0	1.9	178.29	1.2	7.7	21.2	17.4	3.78	5.592		
1,200.0	1,198.8	1,199.8	1,199.5	2.2	2.1	-179.70	2.6	10.1	26.0	21.8	4.13	6.282		
1,300.0	1,298.5	1,299.7	1,299.4	2.4	2.3	-178.32	4.0	12.6	30.8	26.3	4.48	6.868		
1,400.0	1,398.3	1,399.5	1,399.2	2.6	2.5	-177.31	5.4	15.0	35.6	30.8	4.83	7.372		
1,500.0	1,498.0	1,499.4	1,499.1	2.8	2.6	-176.54	6.7	17.5	40.5	35.3	5.18	7.809		
1,600.0	1,597.7	1,599.3	1,598.9	3.0	2.8	-175.94	8.1	19.9	45.3	39.8	5.54	8.192		
1,700.0	1,697.4	1,699.2	1,698.7	3.2	3.0	-175.45	9.5	22.4	50.2	44.3	5.89	8.530		
1,800.0	1,797.1	1,799.1	1,798.6	3.5	3.2	-175.05	10.9	24.8	55.1	48.8	6.24	8.830		
1,900.0	1,896.9	1,898.9	1,898.4	3.7	3.4	-174.72	12.3	27.3	59.9	53.3	6.59	9.099		
2,000.0	1,996.6	1,998.8	1,998.3	3.9	3.5	-174.43	13.7	29.7	64.8	57.9	6.94	9.340		
2,100.0	2,096.3	2,098.7	2,098.1	4.1	3.7	-174.19	15.0	32.2	69.7	62.4	7.29	9.558		
2,200.0	2,196.0	2,198.6	2,197.9	4.3	3.9	-173.98	16.4	34.6	74.5	66.9	7.64	9.757		
2,300.0	2,295.7	2,298.5	2,297.8	4.5	4.1	-173.79	17.8	37.1	79.4	71.4	7.99	9.938		
2,400.0	2,395.4	2,398.3	2,397.6	4.7	4.3	-173.62	19.2	39.5	84.3	75.9	8.34	10.103		
2,500.0	2,495.2	2,498.2	2,497.5	5.0	4.4	-173.48	20.6	42.0	89.1	80.5	8.69	10.256		
2,600.0	2,594.9	2,598.1	2,597.3	5.2	4.6	-173.35	21.9	44.4	94.0	85.0	9.04	10.397		
2,700.0	2,694.6	2,698.0	2,697.2	5.4	4.8	-173.23	23.3	46.9	98.9	89.5	9.39	10.527		
2,800.0	2,794.3	2,797.9	2,797.0	5.6	5.0	-173.12	24.7	49.3	103.8	94.0	9.75	10.648		
2,900.0	2,894.0	2,897.7	2,896.8	5.8	5.2	-173.02	26.1	51.8	108.6	98.5	10.10	10.760		
3,000.0	2,993.7	2,997.6	2,996.7	6.0	5.3	-172.93	27.5	54.2	113.5	103.1	10.45	10.865		
3,100.0	3,093.5	3,097.5	3,096.5	6.3	5.5	-172.85	28.9	56.6	118.4	107.6	10.80	10.963		
3,200.0	3,193.2	3,197.4	3,196.4	6.5	5.7	-172.77	30.2	59.1	123.3	112.1	11.15	11.055		
3,300.0	3,292.9	3,297.3	3,296.2	6.7	5.9	-172.70	31.6	61.5	128.1	116.6	11.50	11.141		
3,400.0	3,392.6	3,397.2	3,396.0	6.9	6.1	-172.64	33.0	64.0	133.0	121.2	11.85	11.222		
3,500.0	3,492.3	3,497.0	3,495.9	7.1	6.2	-172.58	34.4	66.4	137.9	125.7	12.20	11.299		
3,600.0	3,592.0	3,596.9	3,595.7	7.4	6.4	-172.52	35.8	68.9	142.8	130.2	12.55	11.371		
3,700.0	3,691.8	3,696.8	3,695.6	7.6	6.6	-172.47	37.1	71.3	147.6	134.7	12.90	11.439		
3,800.0	3,791.5	3,796.7	3,795.4	7.8	6.8	-172.42	38.5	73.8	152.5	139.2	13.26	11.504		
3,900.0	3,891.2	3,896.6	3,895.3	8.0	7.0	-172.37	39.9	76.2	157.4	143.8	13.61	11.565		
4,000.0	3,990.9	3,996.4	3,995.1	8.2	7.2	-172.33	41.3	78.7	162.2	148.3	13.96	11.624		
4,100.0	4,090.6	4,096.3	4,094.9	8.4	7.3	-172.29	42.7	81.1	167.1	152.8	14.31	11.679		
4,200.0	4,190.3	4,196.2	4,194.8	8.7	7.5	-172.25	44.1	83.6	172.0	157.3	14.66	11.732		
4,300.0	4,290.1	4,296.1	4,294.6	8.9	7.7	-172.21	45.4	86.0	176.9	161.9	15.01	11.782		
4,400.0	4,389.8	4,396.0	4,394.5	9.1	7.9	-172.18	46.8	88.5	181.7	166.4	15.36	11.830		
4,500.0	4,489.5	4,495.8	4,494.3	9.3	8.1	-172.15	48.2	90.9	186.6	170.9	15.71	11.876		
4,600.0	4,589.2	4,595.7	4,594.1	9.5	8.2	-172.12	49.6	93.4	191.5	175.4	16.07	11.920		
4,700.0	4,688.9	4,695.6	4,694.0	9.7	8.4	-172.09	51.0	95.8	196.4	180.0	16.42	11.962		
4,800.0	4,788.6	4,795.5	4,793.8	10.0	8.6	-172.06	52.3	98.3	201.2	184.5	16.77	12.002		
4,900.0	4,888.4	4,895.4	4,893.7	10.2	8.8	-172.03	53.7	100.7	206.1	189.0	17.12	12.041		
5,000.0	4,988.1	4,995.2	4,993.5	10.4	9.0	-172.01	55.1	103.2	211.0	193.5	17.47	12.078		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,087.8	5,095.1	5,093.4	10.6	9.1	-171.98	56.5	105.6	215.9	198.1	17.82	12.113		
5,200.0	5,187.5	5,195.0	5,193.2	10.8	9.3	-171.96	57.9	108.1	220.7	202.6	18.17	12.147		
5,300.0	5,287.2	5,294.9	5,293.0	11.1	9.5	-171.94	59.3	110.5	225.6	207.1	18.52	12.180		
5,400.0	5,386.9	5,394.8	5,392.9	11.3	9.7	-171.92	60.6	112.9	230.5	211.6	18.88	12.212		
5,500.0	5,486.7	5,494.7	5,492.7	11.5	9.9	-171.90	62.0	115.4	235.4	216.1	19.23	12.242		
5,600.0	5,586.4	5,594.5	5,592.6	11.7	10.1	-171.88	63.4	117.8	240.3	220.7	19.58	12.272		
5,700.0	5,686.1	5,694.4	5,692.4	11.9	10.2	-171.86	64.8	120.3	245.1	225.2	19.93	12.300		
5,800.0	5,785.8	5,794.3	5,792.2	12.1	10.4	-171.84	66.2	122.7	250.0	229.7	20.28	12.327		
5,900.0	5,885.5	5,894.2	5,892.1	12.4	10.6	-171.82	67.6	125.2	254.9	234.2	20.63	12.354		
6,000.0	5,985.2	5,994.1	5,991.9	12.6	10.8	-171.81	68.9	127.6	259.8	238.8	20.98	12.379		
6,100.0	6,085.0	6,093.9	6,091.8	12.8	11.0	-171.79	70.3	130.1	264.6	243.3	21.33	12.404		
6,200.0	6,184.7	6,193.8	6,191.6	13.0	11.1	-171.77	71.7	132.5	269.5	247.8	21.69	12.428		
6,300.0	6,284.4	6,293.7	6,291.4	13.2	11.3	-171.76	73.1	135.0	274.4	252.3	22.04	12.451		
6,400.0	6,384.1	6,393.6	6,391.3	13.5	11.5	-171.74	74.5	137.4	279.3	256.9	22.39	12.474		
6,500.0	6,483.8	6,493.5	6,491.1	13.7	11.7	-171.73	75.8	139.9	284.1	261.4	22.74	12.495		
6,600.0	6,583.6	6,593.3	6,591.0	13.9	11.9	-171.72	77.2	142.3	289.0	265.9	23.09	12.516		
6,700.0	6,683.3	6,693.2	6,690.8	14.1	12.0	-171.70	78.6	144.8	293.9	270.4	23.44	12.537		
6,800.0	6,783.0	6,793.1	6,790.7	14.3	12.2	-171.69	80.0	147.2	298.8	275.0	23.79	12.557		
6,900.0	6,882.7	6,891.0	6,888.5	14.5	12.4	-171.94	79.9	149.6	303.8	279.6	24.13	12.589		
7,000.0	6,982.4	6,983.7	6,980.2	14.8	12.5	-174.50	67.3	151.9	310.5	286.1	24.40	12.723		
7,100.0	7,082.1	7,069.8	7,062.6	15.0	12.6	-179.10	42.4	153.9	321.1	296.4	24.68	13.011		
7,200.0	7,181.8	7,150.0	7,135.1	15.2	12.8	116.32	8.4	155.7	338.0	312.9	25.06	13.487		
7,300.0	7,280.2	7,221.4	7,195.1	15.4	12.9	81.46	-30.2	157.1	358.0	332.5	25.53	14.022		
7,400.0	7,374.3	7,293.0	7,250.0	15.5	13.1	69.67	-76.0	158.5	378.8	352.9	25.97	14.588		
7,500.0	7,461.3	7,362.8	7,297.6	15.7	13.4	62.73	-127.0	159.6	398.7	372.5	26.24	15.193		
7,600.0	7,538.5	7,431.2	7,338.0	15.9	13.7	58.01	-182.2	160.6	416.4	390.1	26.32	15.819		
7,700.0	7,603.7	7,500.0	7,371.6	16.3	14.1	54.72	-242.1	161.5	431.0	404.8	26.27	16.408		
7,800.0	7,654.8	7,565.5	7,396.8	16.8	14.6	52.56	-302.6	162.1	441.9	415.7	26.19	16.875		
7,900.0	7,690.2	7,631.9	7,415.0	17.4	15.2	51.30	-366.3	162.5	448.7	422.4	26.24	17.100		
8,000.0	7,709.0	7,700.0	7,426.0	18.2	15.8	50.87	-433.5	162.8	451.1	424.5	26.57	16.977		
8,100.0	7,714.1	7,767.0	7,429.0	19.1	16.5	50.83	-500.4	162.9	451.4	423.9	27.48	16.426		
8,100.0	7,712.0	7,767.1	7,429.0	19.1	16.5	51.03	-500.5	162.9	450.0	422.4	27.53	16.343		
8,200.0	7,712.0	7,867.1	7,429.0	20.1	17.7	51.03	-600.5	162.9	450.0	420.6	29.36	15.325		
8,300.0	7,712.0	7,967.1	7,429.0	21.2	18.9	51.03	-700.5	162.9	450.0	418.6	31.32	14.368		
8,400.0	7,712.0	8,067.1	7,429.0	22.4	20.3	51.03	-800.5	162.9	450.0	416.6	33.38	13.479		
8,500.0	7,712.0	8,167.1	7,429.0	23.7	21.6	51.03	-900.5	162.9	450.0	414.4	35.54	12.661		
8,600.0	7,712.0	8,267.1	7,429.0	25.0	23.1	51.03	-1,000.5	162.9	450.0	412.2	37.77	11.913		
8,700.0	7,712.0	8,367.1	7,429.0	26.4	24.5	51.03	-1,100.5	162.9	450.0	409.9	40.06	11.231		
8,800.0	7,712.0	8,467.1	7,429.0	27.8	26.1	51.03	-1,200.5	162.9	450.0	407.5	42.41	10.609		
8,900.0	7,712.0	8,567.1	7,429.0	29.3	27.6	51.03	-1,300.5	162.9	450.0	405.1	44.80	10.043		
9,000.0	7,712.0	8,667.1	7,429.0	30.7	29.2	51.03	-1,400.5	162.9	450.0	402.7	47.23	9.526		
9,100.0	7,712.0	8,767.1	7,429.0	32.3	30.7	51.03	-1,500.5	162.9	450.0	400.3	49.70	9.054		
9,200.0	7,712.0	8,867.1	7,429.0	33.8	32.3	51.03	-1,600.5	162.9	450.0	397.8	52.19	8.622		
9,300.0	7,712.0	8,967.1	7,429.0	35.3	34.0	51.03	-1,700.5	162.9	450.0	395.3	54.70	8.226		
9,400.0	7,712.0	9,067.1	7,429.0	36.9	35.6	51.03	-1,800.5	162.9	450.0	392.7	57.23	7.862		
9,500.0	7,712.0	9,167.1	7,429.0	38.5	37.2	51.03	-1,900.5	162.9	450.0	390.2	59.78	7.526		
9,600.0	7,712.0	9,267.1	7,429.0	40.1	38.9	51.03	-2,000.5	162.9	450.0	387.6	62.35	7.216		
9,700.0	7,712.0	9,367.1	7,429.0	41.7	40.5	51.03	-2,100.5	162.9	450.0	385.0	64.93	6.929		
9,800.0	7,712.0	9,467.1	7,429.0	43.4	42.2	51.03	-2,200.5	162.9	450.0	382.4	67.53	6.663		
9,900.0	7,712.0	9,567.1	7,429.0	45.0	43.9	51.03	-2,300.5	162.9	450.0	379.8	70.13	6.416		
10,000.0	7,712.0	9,667.1	7,429.0	46.6	45.6	51.03	-2,400.5	162.9	450.0	377.2	72.75	6.185		
10,100.0	7,712.0	9,767.1	7,429.0	48.3	47.2	51.03	-2,500.5	162.9	450.0	374.6	75.37	5.970		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,712.0	9,867.1	7,429.0	50.0	48.9	51.03	-2,600.5	162.9	450.0	371.9	78.00	5.768		
10,300.0	7,712.0	9,967.1	7,429.0	51.6	50.6	51.03	-2,700.5	162.9	450.0	369.3	80.64	5.580		
10,400.0	7,712.0	10,067.1	7,429.0	53.3	52.3	51.03	-2,800.5	162.9	450.0	366.7	83.29	5.402		
10,500.0	7,712.0	10,167.1	7,429.0	55.0	54.0	51.03	-2,900.5	162.9	450.0	364.0	85.94	5.236		
10,600.0	7,712.0	10,267.1	7,429.0	56.6	55.7	51.03	-3,000.5	162.9	450.0	361.4	88.59	5.079		
10,700.0	7,712.0	10,367.1	7,429.0	58.3	57.4	51.03	-3,100.5	162.9	450.0	358.7	91.26	4.931		
10,800.0	7,712.0	10,467.1	7,429.0	60.0	59.1	51.03	-3,200.5	162.9	450.0	356.0	93.92	4.791		
10,900.0	7,712.0	10,567.1	7,429.0	61.7	60.9	51.03	-3,300.5	162.9	450.0	353.4	96.59	4.658		
11,000.0	7,712.0	10,667.1	7,429.0	63.4	62.6	51.03	-3,400.5	162.9	450.0	350.7	99.26	4.533		
11,100.0	7,712.0	10,767.1	7,429.0	65.1	64.3	51.03	-3,500.5	162.9	450.0	348.0	101.94	4.414		
11,200.0	7,712.0	10,867.1	7,429.0	66.8	66.0	51.03	-3,600.5	162.9	450.0	345.3	104.62	4.301		
11,300.0	7,712.0	10,967.1	7,429.0	68.5	67.7	51.03	-3,700.5	162.9	450.0	342.6	107.30	4.193		
11,400.0	7,712.0	11,067.1	7,429.0	70.2	69.4	51.03	-3,800.5	162.9	450.0	340.0	109.99	4.091		
11,500.0	7,712.0	11,167.1	7,429.0	71.9	71.2	51.03	-3,900.5	162.9	450.0	337.3	112.68	3.993		
11,600.0	7,712.0	11,267.1	7,429.0	73.6	72.9	51.03	-4,000.5	162.9	450.0	334.6	115.37	3.900		
11,700.0	7,712.0	11,367.1	7,429.0	75.4	74.6	51.03	-4,100.5	162.9	450.0	331.9	118.06	3.811		
11,800.0	7,712.0	11,467.1	7,429.0	77.1	76.4	51.03	-4,200.5	162.9	450.0	329.2	120.76	3.726		
11,900.0	7,712.0	11,567.1	7,429.0	78.8	78.1	51.03	-4,300.5	162.9	450.0	326.5	123.45	3.645		
12,000.0	7,712.0	11,667.1	7,429.0	80.5	79.8	51.03	-4,400.5	162.9	450.0	323.8	126.15	3.567		
12,100.0	7,712.0	11,767.1	7,429.0	82.2	81.5	51.03	-4,500.5	162.9	450.0	321.1	128.85	3.492		
12,200.0	7,712.0	11,867.1	7,429.0	84.0	83.3	51.03	-4,600.5	162.9	450.0	318.4	131.55	3.420		
12,300.0	7,712.0	11,967.1	7,429.0	85.7	85.0	51.03	-4,700.5	162.9	450.0	315.7	134.26	3.351		
12,400.0	7,712.0	12,067.1	7,429.0	87.4	86.7	51.03	-4,800.5	162.9	450.0	313.0	136.96	3.285		
12,500.0	7,712.0	12,167.1	7,429.0	89.1	88.5	51.03	-4,900.5	162.9	450.0	310.3	139.67	3.222		
12,600.0	7,712.0	12,267.1	7,429.0	90.9	90.2	51.03	-5,000.5	162.9	450.0	307.6	142.37	3.160		
12,700.0	7,712.0	12,367.1	7,429.0	92.6	92.0	51.03	-5,100.5	162.9	450.0	304.9	145.08	3.101		
12,800.0	7,712.0	12,467.1	7,429.0	94.3	93.7	51.03	-5,200.5	162.9	450.0	302.2	147.79	3.044		
12,900.0	7,712.0	12,567.1	7,429.0	96.0	95.4	51.03	-5,300.5	162.9	450.0	299.4	150.50	2.990		
13,000.0	7,712.0	12,667.1	7,429.0	97.8	97.2	51.03	-5,400.5	162.9	450.0	296.7	153.21	2.937		
13,091.6	7,712.0	12,758.7	7,429.0	99.4	98.8	51.03	-5,492.1	162.9	450.0	294.3	155.70	2.890 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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: 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	112.11	-6.1	15.0	16.2					
100.0	100.0	100.0	100.0	0.1	0.1	112.11	-6.1	15.0	16.2	15.9	0.30	54.449		
200.0	200.0	200.0	200.0	0.3	0.3	112.11	-6.1	15.0	16.2	15.5	0.65	25.017		
300.0	300.0	300.0	300.0	0.5	0.5	112.11	-6.1	15.0	16.2	15.2	0.99	16.239		
400.0	400.0	400.0	400.0	0.7	0.7	112.11	-6.1	15.0	16.2	14.8	1.34	12.021		
500.0	500.0	500.0	500.0	0.8	0.8	112.11	-6.1	15.0	16.2	14.5	1.69	9.543		
600.0	600.0	600.0	600.0	1.0	1.0	37.61	-6.1	15.0	15.5	13.4	2.04	7.568		
700.0	700.0	699.8	699.8	1.2	1.2	42.18	-6.0	15.8	14.2	11.8	2.39	5.920		
800.0	799.9	799.6	799.5	1.4	1.4	48.11	-5.6	18.4	13.1	10.3	2.75	4.762		
900.0	899.7	899.4	899.3	1.6	1.6	55.47	-4.9	22.7	12.3	9.2	3.11	3.945		
977.7	977.2	977.0	976.7	1.7	1.7	60.54	-4.2	27.2	12.1	8.7	3.41	3.543		
1,000.0	999.4	999.3	998.9	1.8	1.7	62.29	-4.0	28.7	12.0	8.5	3.50	3.441 CC, ES		
1,100.0	1,099.1	1,099.1	1,098.5	2.0	1.9	62.61	-2.9	36.5	12.8	8.9	3.89	3.286		
1,200.0	1,198.8	1,199.0	1,197.9	2.2	2.2	57.06	-1.4	45.9	14.5	10.3	4.28	3.398		
1,300.0	1,298.5	1,298.7	1,297.0	2.4	2.4	48.56	0.2	57.0	17.6	13.0	4.64	3.792		
1,400.0	1,398.3	1,398.4	1,395.9	2.6	2.6	40.17	2.1	69.7	22.2	17.2	4.99	4.456		
1,500.0	1,498.0	1,498.3	1,494.8	2.8	2.9	34.43	4.1	82.7	27.4	22.1	5.33	5.142		
1,600.0	1,597.7	1,598.1	1,593.8	3.0	3.2	30.54	6.0	95.8	32.8	27.1	5.68	5.777		
1,700.0	1,697.4	1,697.9	1,692.8	3.2	3.4	27.76	8.0	108.8	38.3	32.3	6.03	6.354		
1,800.0	1,797.1	1,797.8	1,791.7	3.5	3.7	25.68	10.0	121.8	43.8	37.5	6.37	6.878		
1,900.0	1,896.9	1,897.6	1,890.7	3.7	4.0	24.06	11.9	134.8	49.4	42.7	6.72	7.353		
2,000.0	1,996.6	1,997.4	1,989.7	3.9	4.3	22.78	13.9	147.8	55.1	48.0	7.07	7.785		
2,100.0	2,096.3	2,097.3	2,088.6	4.1	4.5	21.73	15.8	160.8	60.7	53.3	7.42	8.179		
2,200.0	2,196.0	2,197.1	2,187.6	4.3	4.8	20.87	17.8	173.8	66.4	58.6	7.78	8.538		
2,300.0	2,295.7	2,296.9	2,286.6	4.5	5.1	20.14	19.7	186.8	72.1	63.9	8.13	8.868		
2,400.0	2,395.4	2,396.8	2,385.5	4.7	5.4	19.51	21.7	199.8	77.8	69.3	8.48	9.172		
2,500.0	2,495.2	2,496.6	2,484.5	5.0	5.7	18.97	23.6	212.8	83.5	74.6	8.83	9.452		
2,600.0	2,594.9	2,596.4	2,583.4	5.2	5.9	18.50	25.6	225.8	89.2	80.0	9.18	9.711		
2,700.0	2,694.6	2,696.3	2,682.4	5.4	6.2	18.09	27.5	238.8	94.9	85.3	9.53	9.951		
2,800.0	2,794.3	2,796.1	2,781.4	5.6	6.5	17.73	29.5	251.8	100.6	90.7	9.89	10.174		
2,900.0	2,894.0	2,896.0	2,880.3	5.8	6.8	17.40	31.4	264.8	106.3	96.1	10.24	10.383		
3,000.0	2,993.7	2,995.8	2,979.3	6.0	7.1	17.10	33.4	277.8	112.0	101.4	10.59	10.578		
3,100.0	3,093.5	3,095.6	3,078.3	6.3	7.4	16.84	35.3	290.8	117.8	106.8	10.94	10.760		
3,200.0	3,193.2	3,195.5	3,177.2	6.5	7.6	16.60	37.3	303.8	123.5	112.2	11.30	10.931		
3,300.0	3,292.9	3,295.3	3,276.2	6.7	7.9	16.38	39.2	316.8	129.2	117.6	11.65	11.092		
3,400.0	3,392.6	3,395.1	3,375.2	6.9	8.2	16.18	41.2	329.8	134.9	122.9	12.00	11.244		
3,500.0	3,492.3	3,495.0	3,474.1	7.1	8.5	16.00	43.1	342.8	140.7	128.3	12.35	11.387		
3,600.0	3,592.0	3,594.8	3,573.1	7.4	8.8	15.83	45.1	355.8	146.4	133.7	12.71	11.522		
3,700.0	3,691.8	3,694.6	3,672.1	7.6	9.1	15.67	47.1	368.8	152.1	139.1	13.06	11.650		
3,800.0	3,791.5	3,794.5	3,771.0	7.8	9.4	15.52	49.0	381.8	157.9	144.5	13.41	11.771		
3,900.0	3,891.2	3,894.3	3,870.0	8.0	9.6	15.39	51.0	394.8	163.6	149.8	13.77	11.886		
4,000.0	3,990.9	3,994.1	3,969.0	8.2	9.9	15.26	52.9	407.8	169.3	155.2	14.12	11.995		
4,100.0	4,090.6	4,094.0	4,067.9	8.4	10.2	15.14	54.9	420.8	175.1	160.6	14.47	12.099		
4,200.0	4,190.3	4,193.8	4,166.9	8.7	10.5	15.03	56.8	433.9	180.8	166.0	14.82	12.198		
4,300.0	4,290.1	4,293.6	4,265.9	8.9	10.8	14.93	58.8	446.9	186.6	171.4	15.18	12.293		
4,400.0	4,389.8	4,393.5	4,364.8	9.1	11.1	14.83	60.7	459.9	192.3	176.8	15.53	12.383		
4,500.0	4,489.5	4,493.3	4,463.8	9.3	11.4	14.74	62.7	472.9	198.0	182.2	15.88	12.470		
4,600.0	4,589.2	4,593.1	4,562.7	9.5	11.7	14.65	64.6	485.9	203.8	187.6	16.24	12.552		
4,700.0	4,688.9	4,693.0	4,661.7	9.7	11.9	14.57	66.6	498.9	209.5	192.9	16.59	12.631		
4,800.0	4,788.6	4,792.8	4,760.7	10.0	12.2	14.50	68.5	511.9	215.3	198.3	16.94	12.707		
4,900.0	4,888.4	4,892.6	4,859.6	10.2	12.5	14.42	70.5	524.9	221.0	203.7	17.29	12.780		
5,000.0	4,988.1	4,992.5	4,958.6	10.4	12.8	14.35	72.4	537.9	226.8	209.1	17.65	12.849		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,087.8	5,092.3	5,057.6	10.6	13.1	14.29	74.4	550.9	232.5	214.5	18.00	12.917	
5,200.0	5,187.5	5,192.1	5,156.5	10.8	13.4	14.22	76.3	563.9	238.2	219.9	18.35	12.981	
5,300.0	5,287.2	5,292.0	5,255.5	11.1	13.7	14.16	78.3	576.9	244.0	225.3	18.71	13.043	
5,400.0	5,386.9	5,391.8	5,354.5	11.3	14.0	14.11	80.2	589.9	249.7	230.7	19.06	13.103	
5,500.0	5,486.7	5,491.7	5,453.4	11.5	14.3	14.05	82.2	602.9	255.5	236.1	19.41	13.161	
5,600.0	5,586.4	5,591.5	5,552.4	11.7	14.5	14.00	84.2	615.9	261.2	241.5	19.76	13.216	
5,700.0	5,686.1	5,691.3	5,651.4	11.9	14.8	13.95	86.1	628.9	267.0	246.8	20.12	13.270	
5,800.0	5,785.8	5,791.2	5,750.3	12.1	15.1	13.90	88.1	641.9	272.7	252.2	20.47	13.322	
5,900.0	5,885.5	5,891.0	5,849.3	12.4	15.4	13.85	90.0	654.9	278.5	257.6	20.82	13.372	
6,000.0	5,985.2	5,990.8	5,948.3	12.6	15.7	13.81	92.0	667.9	284.2	263.0	21.18	13.420	
6,100.0	6,085.0	6,090.7	6,047.2	12.8	16.0	13.77	93.9	680.9	289.9	268.4	21.53	13.467	
6,200.0	6,184.7	6,190.5	6,146.2	13.0	16.3	13.73	95.9	693.9	295.7	273.8	21.88	13.512	
6,300.0	6,284.4	6,290.3	6,245.1	13.2	16.6	13.69	97.8	706.9	301.4	279.2	22.24	13.556	
6,400.0	6,384.1	6,390.2	6,344.1	13.5	16.9	13.65	99.8	719.9	307.2	284.6	22.59	13.598	
6,500.0	6,483.8	6,490.0	6,443.1	13.7	17.1	13.61	101.7	732.9	312.9	290.0	22.94	13.640	
6,600.0	6,583.6	6,589.8	6,542.0	13.9	17.4	13.58	103.7	745.9	318.7	295.4	23.30	13.680	
6,700.0	6,683.3	6,689.7	6,641.0	14.1	17.7	13.54	105.6	758.9	324.4	300.8	23.65	13.718	
6,800.0	6,783.0	6,789.5	6,740.0	14.3	18.0	13.51	107.6	771.9	330.2	306.2	24.00	13.756	
6,900.0	6,882.7	6,889.3	6,838.9	14.5	18.3	13.48	109.5	785.0	335.9	311.6	24.35	13.793	
7,000.0	6,982.4	6,988.5	6,937.0	14.8	18.6	14.59	104.7	797.8	341.7	317.0	24.75	13.809	
7,100.0	7,082.1	7,082.8	7,028.2	15.0	18.8	18.18	84.5	809.8	348.7	323.4	25.27	13.799	
7,200.0	7,181.8	7,168.8	7,107.5	15.2	19.0	-34.45	53.1	820.2	359.2	333.3	25.93	13.855	
7,300.0	7,280.2	7,250.0	7,177.3	15.4	19.2	-57.56	12.7	829.4	372.8	346.3	26.46	14.086	
7,400.0	7,374.3	7,328.8	7,239.0	15.5	19.4	-59.17	-35.5	837.5	387.8	361.1	26.65	14.551	
7,500.0	7,461.3	7,400.0	7,288.7	15.7	19.6	-57.89	-86.1	844.0	402.9	376.5	26.40	15.264	
7,600.0	7,538.5	7,479.5	7,336.2	15.9	19.9	-55.77	-149.3	850.3	417.0	391.2	25.86	16.126	
7,700.0	7,603.7	7,550.0	7,370.8	16.3	20.2	-54.01	-210.6	854.8	429.4	404.1	25.27	16.992	
7,800.0	7,654.8	7,624.6	7,399.1	16.8	20.6	-52.53	-279.5	858.5	439.2	414.2	25.01	17.559	
7,900.0	7,690.2	7,700.0	7,418.3	17.4	21.1	-51.53	-352.3	861.1	446.0	420.6	25.46	17.519	
8,000.0	7,709.0	7,767.1	7,427.3	18.2	21.6	-51.08	-418.8	862.3	449.5	422.7	26.84	16.748	
8,100.0	7,712.0	7,848.9	7,429.0	19.1	22.2	-51.03	-500.5	862.5	449.9	421.2	28.79	15.631	
8,200.0	7,712.0	7,948.9	7,429.0	20.1	23.1	-51.03	-600.5	862.5	450.0	419.4	30.54	14.732	
8,300.0	7,712.0	8,048.9	7,429.0	21.2	24.0	-51.03	-700.5	862.5	450.0	417.5	32.43	13.874	
8,400.0	7,712.0	8,148.9	7,429.0	22.4	25.1	-51.03	-800.5	862.5	450.0	415.5	34.44	13.067	
8,500.0	7,712.0	8,248.9	7,429.0	23.7	26.2	-51.03	-900.5	862.5	450.0	413.4	36.53	12.316	
8,600.0	7,712.0	8,348.9	7,429.0	25.0	27.4	-51.03	-1,000.5	862.5	450.0	411.2	38.71	11.622	
8,700.0	7,712.0	8,448.9	7,429.0	26.4	28.6	-51.03	-1,100.5	862.5	450.0	409.0	40.96	10.985	
8,800.0	7,712.0	8,548.9	7,429.0	27.8	29.9	-51.03	-1,200.5	862.5	450.0	406.7	43.26	10.400	
8,900.0	7,712.0	8,648.9	7,429.0	29.3	31.3	-51.03	-1,300.5	862.5	450.0	404.3	45.62	9.864	
9,000.0	7,712.0	8,748.9	7,429.0	30.7	32.7	-51.03	-1,400.5	862.5	450.0	401.9	48.01	9.372	
9,100.0	7,712.0	8,848.9	7,429.0	32.3	34.1	-51.03	-1,500.5	862.5	450.0	399.5	50.44	8.921	
9,200.0	7,712.0	8,948.9	7,429.0	33.8	35.5	-51.03	-1,600.5	862.5	450.0	397.1	52.90	8.506	
9,300.0	7,712.0	9,048.9	7,429.0	35.3	37.0	-51.03	-1,700.5	862.5	450.0	394.6	55.38	8.125	
9,400.0	7,712.0	9,148.9	7,429.0	36.9	38.5	-51.03	-1,800.5	862.5	450.0	392.1	57.89	7.773	
9,500.0	7,712.0	9,248.9	7,429.0	38.5	40.0	-51.03	-1,900.5	862.5	450.0	389.5	60.42	7.448	
9,600.0	7,712.0	9,348.9	7,429.0	40.1	41.6	-51.03	-2,000.5	862.5	450.0	387.0	62.96	7.147	
9,700.0	7,712.0	9,448.9	7,429.0	41.7	43.1	-51.03	-2,100.5	862.5	450.0	384.4	65.52	6.867	
9,800.0	7,712.0	9,548.9	7,429.0	43.4	44.7	-51.03	-2,200.5	862.5	450.0	381.9	68.10	6.608	
9,900.0	7,712.0	9,648.9	7,429.0	45.0	46.3	-51.03	-2,300.5	862.5	450.0	379.3	70.68	6.366	
10,000.0	7,712.0	9,748.9	7,429.0	46.6	47.9	-51.03	-2,400.5	862.5	450.0	376.7	73.28	6.140	
10,100.0	7,712.0	9,848.9	7,429.0	48.3	49.5	-51.03	-2,500.5	862.5	450.0	374.1	75.89	5.929	
10,200.0	7,712.0	9,948.9	7,429.0	50.0	51.1	-51.03	-2,600.5	862.5	450.0	371.4	78.51	5.731	

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,300.0	7,712.0	10,048.9	7,429.0	51.6	52.7	-51.03	-2,700.5	862.5	450.0	368.8	81.13	5.546	
10,400.0	7,712.0	10,148.9	7,429.0	53.3	54.4	-51.03	-2,800.5	862.5	450.0	366.2	83.76	5.372	
10,500.0	7,712.0	10,248.9	7,429.0	55.0	56.0	-51.03	-2,900.5	862.5	450.0	363.6	86.40	5.208	
10,600.0	7,712.0	10,348.9	7,429.0	56.6	57.6	-51.03	-3,000.5	862.5	450.0	360.9	89.05	5.053	
10,700.0	7,712.0	10,448.9	7,429.0	58.3	59.3	-51.03	-3,100.5	862.5	450.0	358.3	91.70	4.907	
10,800.0	7,712.0	10,548.9	7,429.0	60.0	61.0	-51.03	-3,200.5	862.5	450.0	355.6	94.35	4.769	
10,900.0	7,712.0	10,648.9	7,429.0	61.7	62.6	-51.03	-3,300.5	862.5	450.0	352.9	97.01	4.638	
11,000.0	7,712.0	10,748.9	7,429.0	63.4	64.3	-51.03	-3,400.5	862.5	450.0	350.3	99.67	4.514	
11,100.0	7,712.0	10,848.9	7,429.0	65.1	66.0	-51.03	-3,500.5	862.5	450.0	347.6	102.34	4.397	
11,200.0	7,712.0	10,948.9	7,429.0	66.8	67.6	-51.03	-3,600.5	862.5	450.0	344.9	105.01	4.285	
11,300.0	7,712.0	11,048.9	7,429.0	68.5	69.3	-51.03	-3,700.5	862.5	450.0	342.3	107.69	4.178	
11,400.0	7,712.0	11,148.9	7,429.0	70.2	71.0	-51.03	-3,800.5	862.5	450.0	339.6	110.37	4.077	
11,500.0	7,712.0	11,248.9	7,429.0	71.9	72.7	-51.03	-3,900.5	862.5	450.0	336.9	113.05	3.980	
11,600.0	7,712.0	11,348.9	7,429.0	73.6	74.4	-51.03	-4,000.5	862.5	450.0	334.2	115.73	3.888	
11,700.0	7,712.0	11,448.9	7,429.0	75.4	76.1	-51.03	-4,100.5	862.5	450.0	331.5	118.42	3.800	
11,800.0	7,712.0	11,548.9	7,429.0	77.1	77.8	-51.03	-4,200.5	862.5	450.0	328.8	121.11	3.715	
11,900.0	7,712.0	11,648.9	7,429.0	78.8	79.5	-51.03	-4,300.5	862.5	450.0	326.2	123.80	3.635	
12,000.0	7,712.0	11,748.9	7,429.0	80.5	81.2	-51.03	-4,400.5	862.5	450.0	323.5	126.49	3.557	
12,100.0	7,712.0	11,848.9	7,429.0	82.2	82.9	-51.03	-4,500.5	862.5	450.0	320.8	129.18	3.483	
12,200.0	7,712.0	11,948.9	7,429.0	84.0	84.6	-51.03	-4,600.5	862.5	450.0	318.1	131.88	3.412	
12,300.0	7,712.0	12,048.9	7,429.0	85.7	86.3	-51.03	-4,700.5	862.5	450.0	315.4	134.58	3.343	
12,400.0	7,712.0	12,148.9	7,429.0	87.4	88.0	-51.03	-4,800.5	862.5	450.0	312.7	137.28	3.278	
12,500.0	7,712.0	12,248.9	7,429.0	89.1	89.7	-51.03	-4,900.5	862.5	450.0	310.0	139.98	3.214	
12,600.0	7,712.0	12,348.9	7,429.0	90.9	91.4	-51.03	-5,000.5	862.5	450.0	307.3	142.68	3.154	
12,700.0	7,712.0	12,448.9	7,429.0	92.6	93.1	-51.03	-5,100.5	862.5	450.0	304.6	145.39	3.095	
12,800.0	7,712.0	12,548.9	7,429.0	94.3	94.8	-51.03	-5,200.5	862.5	450.0	301.9	148.09	3.038	
12,900.0	7,712.0	12,648.9	7,429.0	96.0	96.6	-51.03	-5,300.5	862.5	450.0	299.2	150.80	2.984	
13,000.0	7,712.0	12,748.9	7,429.0	97.8	98.3	-51.03	-5,400.5	862.5	450.0	296.4	153.51	2.931	
13,054.5	7,712.0	12,803.4	7,429.0	98.7	99.2	-51.03	-5,455.0	862.5	450.0	295.0	154.98	2.903	
13,091.6	7,712.0	12,840.5	7,429.0	99.4	99.9	-51.03	-5,492.1	862.5	450.0	294.0	155.99	2.885 SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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: 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	90.31	-0.1	20.0	20.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.31	-0.1	20.0	20.0	19.7	0.30	67.407		
200.0	200.0	200.0	200.0	0.3	0.3	90.31	-0.1	20.0	20.0	19.4	0.65	30.971		
300.0	300.0	300.0	300.0	0.5	0.5	90.31	-0.1	20.0	20.0	19.0	0.99	20.104		
400.0	400.0	400.0	400.0	0.7	0.7	90.31	-0.1	20.0	20.0	18.7	1.34	14.882		
500.0	500.0	500.0	500.0	0.8	0.8	90.31	-0.1	20.0	20.0	18.3	1.69	11.814		
600.0	600.0	600.0	600.0	1.0	1.0	14.54	-0.1	20.0	19.2	17.1	2.04	9.381		
700.0	700.0	700.0	700.0	1.2	1.2	16.81	-0.1	20.0	16.6	14.2	2.39	6.958		
800.0	799.9	799.6	799.6	1.4	1.4	21.63	0.0	20.9	13.4	10.6	2.74	4.878		
900.0	899.7	899.4	899.3	1.6	1.5	30.64	0.3	23.4	10.3	7.2	3.09	3.343		
1,000.0	999.4	999.2	999.1	1.8	1.7	45.35	0.7	27.8	8.2	4.7	3.47	2.370		
1,067.7	1,066.9	1,066.8	1,066.6	1.9	1.9	54.26	1.1	31.7	7.8	4.1	3.73	2.102 CC		
1,100.0	1,099.1	1,099.1	1,098.8	2.0	1.9	57.18	1.3	33.8	7.9	4.1	3.86	2.052 ES, SF		
1,200.0	1,198.8	1,199.0	1,198.4	2.2	2.1	59.48	2.2	41.6	8.9	4.7	4.25	2.100		
1,300.0	1,298.5	1,298.8	1,297.8	2.4	2.3	54.03	3.2	51.1	11.1	6.4	4.63	2.392		
1,400.0	1,398.3	1,398.6	1,396.9	2.6	2.6	45.73	4.3	62.3	14.6	9.6	4.98	2.931		
1,500.0	1,498.0	1,498.2	1,495.6	2.8	2.8	37.99	5.7	75.2	19.8	14.5	5.32	3.721		
1,600.0	1,597.7	1,597.6	1,593.9	3.0	3.1	31.90	7.2	89.8	26.8	21.1	5.66	4.734		
1,700.0	1,697.4	1,696.6	1,691.6	3.2	3.4	27.37	8.9	106.0	35.6	29.6	6.00	5.933		
1,800.0	1,797.1	1,795.8	1,789.1	3.5	3.7	24.08	10.8	123.7	45.9	39.6	6.33	7.252		
1,900.0	1,896.9	1,895.2	1,886.9	3.7	4.0	21.94	12.6	141.7	56.6	49.9	6.68	8.477		
2,000.0	1,996.6	1,994.6	1,984.6	3.9	4.3	20.49	14.5	159.6	67.3	60.3	7.03	9.585		
2,100.0	2,096.3	2,094.0	2,082.4	4.1	4.7	19.43	16.4	177.6	78.1	70.7	7.37	10.590		
2,200.0	2,196.0	2,193.4	2,180.2	4.3	5.0	18.63	18.3	195.6	88.9	81.1	7.72	11.505		
2,300.0	2,295.7	2,292.8	2,277.9	4.5	5.4	18.00	20.2	213.5	99.7	91.6	8.08	12.342		
2,400.0	2,395.4	2,392.2	2,375.7	4.7	5.7	17.50	22.1	231.5	110.5	102.0	8.43	13.109		
2,500.0	2,495.2	2,491.6	2,473.4	5.0	6.0	17.08	23.9	249.5	121.3	112.5	8.78	13.815		
2,600.0	2,594.9	2,591.0	2,571.2	5.2	6.4	16.73	25.8	267.4	132.1	123.0	9.13	14.467		
2,700.0	2,694.6	2,690.5	2,668.9	5.4	6.7	16.44	27.7	285.4	142.9	133.4	9.48	15.070		
2,800.0	2,794.3	2,789.9	2,766.7	5.6	7.1	16.19	29.6	303.4	153.7	143.9	9.83	15.631		
2,900.0	2,894.0	2,889.3	2,864.4	5.8	7.5	15.97	31.5	321.3	164.5	154.4	10.19	16.153		
3,000.0	2,993.7	2,988.7	2,962.2	6.0	7.8	15.77	33.4	339.3	175.4	164.8	10.54	16.639		
3,100.0	3,093.5	3,088.1	3,059.9	6.3	8.2	15.60	35.2	357.3	186.2	175.3	10.89	17.095		
3,200.0	3,193.2	3,187.5	3,157.7	6.5	8.5	15.45	37.1	375.2	197.0	185.8	11.24	17.522		
3,300.0	3,292.9	3,286.9	3,255.5	6.7	8.9	15.32	39.0	393.2	207.9	196.3	11.60	17.923		
3,400.0	3,392.6	3,386.3	3,353.2	6.9	9.2	15.19	40.9	411.2	218.7	206.7	11.95	18.300		
3,500.0	3,492.3	3,485.7	3,451.0	7.1	9.6	15.08	42.8	429.1	229.5	217.2	12.30	18.656		
3,600.0	3,592.0	3,585.2	3,548.7	7.4	9.9	14.98	44.6	447.1	240.3	227.7	12.66	18.991		
3,700.0	3,691.8	3,684.6	3,646.5	7.6	10.3	14.89	46.5	465.1	251.2	238.2	13.01	19.309		
3,800.0	3,791.5	3,784.0	3,744.2	7.8	10.7	14.81	48.4	483.0	262.0	248.6	13.36	19.610		
3,900.0	3,891.2	3,883.4	3,842.0	8.0	11.0	14.73	50.3	501.0	272.8	259.1	13.71	19.895		
4,000.0	3,990.9	3,982.8	3,939.7	8.2	11.4	14.66	52.2	519.0	283.7	269.6	14.07	20.166		
4,100.0	4,090.6	4,082.2	4,037.5	8.4	11.7	14.59	54.1	536.9	294.5	280.1	14.42	20.424		
4,200.0	4,190.3	4,181.6	4,135.3	8.7	12.1	14.53	55.9	554.9	305.3	290.6	14.77	20.670		
4,300.0	4,290.1	4,281.0	4,233.0	8.9	12.5	14.47	57.8	572.9	316.2	301.1	15.13	20.904		
4,400.0	4,389.8	4,380.4	4,330.8	9.1	12.8	14.42	59.7	590.8	327.0	311.5	15.48	21.127		
4,500.0	4,489.5	4,479.8	4,428.5	9.3	13.2	14.37	61.6	608.8	337.9	322.0	15.83	21.341		
4,600.0	4,589.2	4,579.3	4,526.3	9.5	13.5	14.32	63.5	626.8	348.7	332.5	16.18	21.545		
4,700.0	4,688.9	4,678.7	4,624.0	9.7	13.9	14.28	65.4	644.7	359.5	343.0	16.54	21.740		
4,800.0	4,788.6	4,778.1	4,721.8	10.0	14.3	14.23	67.2	662.7	370.4	353.5	16.89	21.927		
4,900.0	4,888.4	4,877.5	4,819.5	10.2	14.6	14.19	69.1	680.7	381.2	364.0	17.24	22.107		
5,000.0	4,988.1	4,976.9	4,917.3	10.4	15.0	14.16	71.0	698.6	392.0	374.4	17.60	22.279		

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> S32-T2N-R68W (File/Hwy 52) - Hwy 52 4F-32H-O268 - Hz - Plan #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-Geolink MWD													<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,087.8	5,076.3	5,015.1	10.6	15.4	14.12	72.9	716.6	402.9	384.9	17.95	22.445		
5,200.0	5,187.5	5,175.7	5,112.8	10.8	15.7	14.09	74.8	734.6	413.7	395.4	18.30	22.604		
5,300.0	5,287.2	5,275.1	5,210.6	11.1	16.1	14.06	76.7	752.5	424.5	405.9	18.66	22.757		
5,400.0	5,386.9	5,374.5	5,308.3	11.3	16.4	14.03	78.5	770.5	435.4	416.4	19.01	22.905		
5,500.0	5,486.7	5,474.0	5,406.1	11.5	16.8	14.00	80.4	788.5	446.2	426.9	19.36	23.047		
5,600.0	5,586.4	5,573.4	5,503.8	11.7	17.2	13.97	82.3	806.4	457.1	437.3	19.71	23.184		
5,700.0	5,686.1	5,672.8	5,601.6	11.9	17.5	13.94	84.2	824.4	467.9	447.8	20.07	23.316		
5,800.0	5,785.8	5,772.2	5,699.3	12.1	17.9	13.92	86.1	842.4	478.7	458.3	20.42	23.444		
5,900.0	5,885.5	5,871.6	5,797.1	12.4	18.3	13.90	87.9	860.3	489.6	468.8	20.77	23.567		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	103.80	-6.1	25.0	25.7					
100.0	100.0	100.0	100.0	0.1	0.1	103.80	-6.1	25.0	25.7	25.4	0.30	86.651		
200.0	200.0	200.0	200.0	0.3	0.3	103.80	-6.1	25.0	25.7	25.1	0.65	39.813		
300.0	300.0	300.0	300.0	0.5	0.5	103.80	-6.1	25.0	25.7	24.7	0.99	25.843		
400.0	400.0	400.0	400.0	0.7	0.7	103.80	-6.1	25.0	25.7	24.4	1.34	19.131		
500.0	500.0	500.0	500.0	0.8	0.8	103.80	-6.1	25.0	25.7	24.0	1.69	15.186		
600.0	600.0	600.0	600.0	1.0	1.0	28.33	-6.1	25.0	24.9	22.9	2.04	12.213		
700.0	700.0	700.0	700.0	1.2	1.2	31.49	-6.1	25.0	22.7	20.3	2.39	9.479		
800.0	799.9	799.9	799.9	1.4	1.4	38.36	-6.1	25.0	19.1	16.3	2.74	6.957		
900.0	899.7	899.5	899.5	1.6	1.5	50.94	-6.1	25.8	15.4	12.3	3.10	4.966		
1,000.0	999.4	999.2	999.2	1.8	1.7	68.55	-5.8	28.4	13.3	9.8	3.49	3.812		
1,057.2	1,056.4	1,056.3	1,056.2	1.9	1.8	77.55	-5.7	30.7	13.0	9.3	3.71	3.510 CC		
1,100.0	1,099.1	1,099.1	1,098.9	2.0	1.9	82.84	-5.5	32.7	13.1	9.3	3.88	3.388 ES		
1,200.0	1,198.8	1,199.0	1,198.7	2.2	2.1	89.46	-5.0	38.8	14.0	9.7	4.27	3.269		
1,300.0	1,298.5	1,298.9	1,298.3	2.4	2.3	88.67	-4.3	46.6	15.2	10.5	4.68	3.242 SF		
1,400.0	1,398.3	1,398.9	1,397.8	2.6	2.5	82.15	-3.5	56.1	16.8	11.7	5.09	3.297		
1,500.0	1,498.0	1,498.7	1,496.9	2.8	2.7	72.04	-2.6	67.4	19.3	13.8	5.49	3.514		
1,600.0	1,597.7	1,598.3	1,595.7	3.0	3.0	60.92	-1.5	80.3	23.3	17.4	5.86	3.975		
1,700.0	1,697.4	1,697.7	1,694.0	3.2	3.2	50.88	-0.3	94.9	29.2	23.0	6.20	4.705		
1,800.0	1,797.1	1,796.8	1,791.8	3.5	3.5	42.80	1.1	111.2	37.1	30.5	6.52	5.682		
1,900.0	1,896.9	1,895.6	1,889.0	3.7	3.8	36.61	2.6	129.0	46.9	40.1	6.84	6.860		
2,000.0	1,996.6	1,994.0	1,985.4	3.9	4.2	31.93	4.2	148.5	58.8	51.6	7.17	8.200		
2,100.0	2,096.3	2,091.9	2,081.0	4.1	4.6	28.37	6.0	169.5	72.4	64.9	7.49	9.667		
2,200.0	2,196.0	2,189.4	2,175.8	4.3	5.0	25.63	7.9	192.0	87.9	80.1	7.82	11.238		
2,300.0	2,295.7	2,286.6	2,270.0	4.5	5.4	23.48	9.9	216.0	105.1	96.9	8.15	12.890		
2,400.0	2,395.4	2,384.9	2,365.1	4.7	5.8	21.85	12.0	240.9	122.9	114.4	8.49	14.477		
2,500.0	2,495.2	2,483.3	2,460.2	5.0	6.2	20.64	14.1	265.7	140.8	132.0	8.83	15.944		
2,600.0	2,594.9	2,581.6	2,555.4	5.2	6.7	19.70	16.1	290.5	158.8	149.6	9.18	17.303		
2,700.0	2,694.6	2,680.0	2,650.5	5.4	7.1	18.95	18.2	315.3	176.7	167.2	9.52	18.564		
2,800.0	2,794.3	2,778.3	2,745.7	5.6	7.6	18.34	20.3	340.2	194.7	184.9	9.87	19.737		
2,900.0	2,894.0	2,876.7	2,840.8	5.8	8.0	17.83	22.4	365.0	212.8	202.5	10.21	20.830		
3,000.0	2,993.7	2,975.0	2,935.9	6.0	8.5	17.41	24.5	389.8	230.8	220.2	10.56	21.852		
3,100.0	3,093.5	3,073.3	3,031.1	6.3	9.0	17.04	26.5	414.6	248.8	237.9	10.91	22.808		
3,200.0	3,193.2	3,171.7	3,126.2	6.5	9.4	16.72	28.6	439.4	266.9	255.6	11.26	23.706		
3,300.0	3,292.9	3,270.0	3,221.4	6.7	9.9	16.45	30.7	464.3	284.9	273.3	11.61	24.549		
3,400.0	3,392.6	3,368.4	3,316.5	6.9	10.4	16.20	32.8	489.1	303.0	291.1	11.96	25.343		
3,500.0	3,492.3	3,466.7	3,411.6	7.1	10.8	15.99	34.9	513.9	321.1	308.8	12.31	26.093		
3,600.0	3,592.0	3,565.1	3,506.8	7.4	11.3	15.80	37.0	538.7	339.2	326.5	12.65	26.801		
3,700.0	3,691.8	3,663.4	3,601.9	7.6	11.8	15.62	39.0	563.6	357.2	344.2	13.00	27.470		
3,800.0	3,791.5	3,761.8	3,697.1	7.8	12.2	15.47	41.1	588.4	375.3	362.0	13.35	28.105		
3,900.0	3,891.2	3,860.1	3,792.2	8.0	12.7	15.32	43.2	613.2	393.4	379.7	13.70	28.708		
4,000.0	3,990.9	3,958.5	3,887.3	8.2	13.2	15.19	45.3	638.0	411.5	397.4	14.05	29.280		
4,100.0	4,090.6	4,056.8	3,982.5	8.4	13.6	15.07	47.4	662.9	429.6	415.2	14.40	29.825		
4,200.0	4,190.3	4,155.2	4,077.6	8.7	14.1	14.96	49.5	687.7	447.7	432.9	14.75	30.343		
4,300.0	4,290.1	4,253.5	4,172.8	8.9	14.6	14.86	51.5	712.5	465.7	450.6	15.10	30.838		
4,400.0	4,389.8	4,351.9	4,267.9	9.1	15.1	14.77	53.6	737.3	483.8	468.4	15.45	31.311		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	-0.2	30.0	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.31	-0.2	30.0	30.0	29.7	0.30	101.110		
200.0	200.0	200.0	200.0	0.3	0.3	90.31	-0.2	30.0	30.0	29.4	0.65	46.456		
300.0	300.0	300.0	300.0	0.5	0.5	90.31	-0.2	30.0	30.0	29.0	0.99	30.156		
400.0	400.0	400.0	400.0	0.7	0.7	90.31	-0.2	30.0	30.0	28.7	1.34	22.323		
500.0	500.0	500.0	500.0	0.8	0.8	90.31	-0.2	30.0	30.0	28.3	1.69	17.720		
600.0	600.0	600.0	600.0	1.0	1.0	14.33	-0.2	30.0	29.2	27.1	2.04	14.278		
700.0	700.0	700.0	700.0	1.2	1.2	15.73	-0.2	30.0	26.6	24.2	2.39	11.138		
800.0	799.9	799.9	799.9	1.4	1.4	18.76	-0.2	30.0	22.5	19.7	2.74	8.198		
900.0	899.7	899.7	899.7	1.6	1.5	25.49	-0.2	30.0	16.8	13.7	3.09	5.432		
1,000.0	999.4	999.2	999.2	1.8	1.7	40.67	-0.1	30.9	11.3	7.8	3.46	3.269		
1,100.0	1,099.1	1,099.0	1,098.9	2.0	1.9	65.11	0.1	33.4	8.6	4.7	3.86	2.231		
1,148.7	1,147.7	1,147.6	1,147.5	2.1	2.0	77.32	0.2	35.3	8.3	4.3	4.05	2.054 CC, ES		
1,200.0	1,198.8	1,198.9	1,198.7	2.2	2.1	87.46	0.4	37.8	8.5	4.3	4.26	2.008 SF		
1,300.0	1,298.5	1,298.8	1,298.5	2.4	2.3	96.82	0.8	43.8	9.6	5.0	4.65	2.073		
1,400.0	1,398.3	1,398.8	1,398.2	2.6	2.5	94.98	1.3	51.7	10.9	5.9	5.06	2.164		
1,500.0	1,498.0	1,498.8	1,497.7	2.8	2.7	85.61	1.9	61.2	12.6	7.1	5.47	2.296		
1,600.0	1,597.7	1,598.6	1,596.9	3.0	2.9	72.38	2.7	72.4	15.2	9.3	5.87	2.584		
1,700.0	1,697.4	1,698.2	1,695.7	3.2	3.1	59.23	3.5	85.4	19.4	13.2	6.22	3.122		
1,800.0	1,797.1	1,797.7	1,794.0	3.5	3.4	48.52	4.5	100.0	25.6	19.1	6.54	3.920		
1,900.0	1,896.9	1,896.8	1,891.8	3.7	3.7	40.56	5.6	116.3	33.9	27.0	6.85	4.943		
2,000.0	1,996.6	1,995.6	1,989.0	3.9	4.0	34.80	6.8	134.2	44.0	36.9	7.17	6.145		
2,100.0	2,096.3	2,094.1	2,085.4	4.1	4.3	30.58	8.1	153.7	56.1	48.6	7.49	7.489		
2,200.0	2,196.0	2,192.0	2,181.1	4.3	4.7	27.44	9.5	174.7	70.0	62.1	7.82	8.948		
2,300.0	2,295.7	2,289.5	2,275.9	4.5	5.1	25.04	11.0	197.3	85.6	77.4	8.15	10.501		
2,400.0	2,395.4	2,386.4	2,369.7	4.7	5.5	23.16	12.6	221.3	103.0	94.5	8.49	12.133		
2,500.0	2,495.2	2,482.6	2,462.6	5.0	5.9	21.67	14.3	246.7	122.0	113.2	8.82	13.832		
2,600.0	2,594.9	2,578.2	2,554.4	5.2	6.4	20.46	16.1	273.5	142.8	133.6	9.16	15.587		
2,700.0	2,694.6	2,673.3	2,645.2	5.4	6.9	19.46	17.9	301.6	165.1	155.6	9.50	17.391		
2,800.0	2,794.3	2,770.6	2,737.8	5.6	7.4	18.64	19.9	331.1	188.2	178.4	9.84	19.136		
2,900.0	2,894.0	2,867.9	2,830.5	5.8	7.9	18.00	21.9	360.5	211.4	201.2	10.18	20.762		
3,000.0	2,993.7	2,965.1	2,923.2	6.0	8.5	17.49	23.8	390.0	234.5	224.0	10.53	22.282		
3,100.0	3,093.5	3,062.4	3,015.9	6.3	9.0	17.07	25.8	419.5	257.7	246.8	10.87	23.705		
3,200.0	3,193.2	3,159.7	3,108.5	6.5	9.5	16.72	27.8	448.9	280.9	269.7	11.22	25.040		
3,300.0	3,292.9	3,256.9	3,201.2	6.7	10.1	16.42	29.7	478.4	304.1	292.5	11.56	26.295		
3,400.0	3,392.6	3,354.2	3,293.9	6.9	10.6	16.17	31.7	507.8	327.3	315.4	11.91	27.477		
3,500.0	3,492.3	3,451.4	3,386.6	7.1	11.2	15.95	33.6	537.3	350.5	338.2	12.26	28.592		
3,600.0	3,592.0	3,548.7	3,479.2	7.4	11.7	15.75	35.6	566.7	373.7	361.1	12.61	29.645		
3,700.0	3,691.8	3,646.0	3,571.9	7.6	12.3	15.58	37.6	596.2	396.9	384.0	12.95	30.642		
3,800.0	3,791.5	3,743.2	3,664.6	7.8	12.8	15.43	39.5	625.6	420.1	406.8	13.30	31.586		
3,900.0	3,891.2	3,840.5	3,757.3	8.0	13.4	15.30	41.5	655.1	443.3	429.7	13.65	32.483		
4,000.0	3,990.9	3,937.8	3,849.9	8.2	13.9	15.17	43.5	684.5	466.6	452.6	14.00	33.335		
4,100.0	4,090.6	4,035.0	3,942.6	8.4	14.5	15.06	45.4	714.0	489.8	475.4	14.34	34.145		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	97.90	-6.2	45.0	45.4					
100.0	100.0	99.0	99.0	0.1	0.1	97.90	-6.2	45.0	45.4	0.30	153.776			
200.0	200.0	199.0	199.0	0.3	0.3	97.90	-6.2	45.0	45.4	0.64	70.491			
300.0	300.0	299.5	299.5	0.5	0.5	98.78	-6.9	44.4	44.9	0.99	45.154			
400.0	400.0	399.9	399.8	0.7	0.7	101.57	-8.7	42.5	43.4	1.34	32.275			
500.0	500.0	500.2	500.0	0.8	0.9	106.66	-11.8	39.4	41.1	1.69	24.281			
600.0	600.0	600.2	599.9	1.0	1.1	39.11	-16.1	35.1	37.9	2.08	18.220			
700.0	700.0	699.8	699.2	1.2	1.3	54.28	-21.6	29.6	34.5	2.48	13.922			
768.0	767.9	767.2	766.3	1.3	1.4	68.85	-26.0	25.2	33.5	2.75	12.174 CC, ES			
800.0	799.9	798.9	797.9	1.4	1.5	76.36	-28.1	23.0	33.7	2.87	11.745 SF			
900.0	899.7	897.8	896.3	1.6	1.7	99.04	-34.8	16.4	38.2	3.23	11.847			
1,000.0	999.4	996.5	994.6	1.8	2.0	116.53	-41.3	9.8	47.8	3.55	13.484			
1,100.0	1,099.1	1,095.2	1,092.8	2.0	2.2	127.66	-47.9	3.2	60.4	3.87	15.605			
1,200.0	1,198.8	1,193.8	1,191.0	2.2	2.4	134.82	-54.5	-3.4	74.4	4.20	17.710			
1,300.0	1,298.5	1,292.5	1,289.2	2.4	2.7	139.66	-61.1	-10.0	89.2	4.54	19.648			
1,400.0	1,398.3	1,391.2	1,387.4	2.6	2.9	143.12	-67.7	-16.6	104.4	4.88	21.389			
1,500.0	1,498.0	1,489.8	1,485.7	2.8	3.1	145.69	-74.3	-23.2	119.9	5.23	22.941			
1,600.0	1,597.7	1,588.5	1,583.9	3.0	3.4	147.67	-80.9	-29.8	135.6	5.58	24.325			
1,700.0	1,697.4	1,687.1	1,682.1	3.2	3.6	149.24	-87.5	-36.4	151.4	5.92	25.561			
1,800.0	1,797.1	1,785.8	1,780.3	3.5	3.8	150.51	-94.1	-43.0	167.4	6.28	26.670			
1,900.0	1,896.9	1,884.5	1,878.5	3.7	4.1	151.56	-100.7	-49.6	183.3	6.63	27.669			
2,000.0	1,996.6	1,983.1	1,976.8	3.9	4.3	152.45	-107.2	-56.2	199.4	6.98	28.572			
2,100.0	2,096.3	2,081.8	2,075.0	4.1	4.5	153.20	-113.8	-62.8	215.4	7.33	29.393			
2,200.0	2,196.0	2,180.5	2,173.2	4.3	4.8	153.84	-120.4	-69.4	231.5	7.68	30.141			
2,300.0	2,295.7	2,279.1	2,271.4	4.5	5.0	154.41	-127.0	-76.0	247.7	8.03	30.825			
2,400.0	2,395.4	2,377.8	2,369.7	4.7	5.2	154.90	-133.6	-82.6	263.8	8.39	31.454			
2,500.0	2,495.2	2,476.5	2,467.9	5.0	5.5	155.34	-140.2	-89.1	280.0	8.74	32.033			
2,600.0	2,594.9	2,575.1	2,566.1	5.2	5.7	155.73	-146.8	-95.7	296.2	9.09	32.569			
2,700.0	2,694.6	2,673.8	2,664.3	5.4	5.9	156.07	-153.4	-102.3	312.3	9.45	33.065			
2,800.0	2,794.3	2,772.4	2,762.5	5.6	6.2	156.39	-160.0	-108.9	328.5	9.80	33.526			
2,900.0	2,894.0	2,871.1	2,860.8	5.8	6.4	156.67	-166.6	-115.5	344.8	10.15	33.955			
3,000.0	2,993.7	2,969.8	2,959.0	6.0	6.7	156.93	-173.1	-122.1	361.0	10.51	34.356			
3,100.0	3,093.5	3,068.4	3,057.2	6.3	6.9	157.17	-179.7	-128.7	377.2	10.86	34.732			
3,200.0	3,193.2	3,167.1	3,155.4	6.5	7.1	157.39	-186.3	-135.3	393.4	11.21	35.084			
3,300.0	3,292.9	3,265.8	3,253.7	6.7	7.4	157.59	-192.9	-141.9	409.7	11.57	35.415			
3,400.0	3,392.6	3,364.4	3,351.9	6.9	7.6	157.77	-199.5	-148.5	425.9	11.92	35.726			
3,500.0	3,492.3	3,463.1	3,450.1	7.1	7.8	157.94	-206.1	-155.1	442.1	12.27	36.020			
3,600.0	3,592.0	3,561.8	3,548.3	7.4	8.1	158.10	-212.7	-161.7	458.4	12.63	36.297			
3,700.0	3,691.8	3,660.4	3,646.5	7.6	8.3	158.25	-219.3	-168.3	474.6	12.98	36.560			
3,800.0	3,791.5	3,759.1	3,744.8	7.8	8.6	158.39	-225.9	-174.9	490.9	13.34	36.808			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	90.31	-0.3	50.0	50.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.31	-0.3	50.0	50.0	49.7	0.30	169.364		
200.0	200.0	199.0	199.0	0.3	0.3	90.31	-0.3	50.0	50.0	49.4	0.64	77.637		
300.0	300.0	299.0	299.0	0.5	0.5	90.31	-0.3	50.0	50.0	49.0	0.99	50.348		
400.0	400.0	399.1	399.1	0.7	0.7	91.28	-1.1	49.9	49.9	48.5	1.34	37.148		
500.0	500.0	499.2	499.2	0.8	0.8	94.26	-3.7	49.4	49.6	47.9	1.69	29.292		
600.0	600.0	599.1	599.0	1.0	1.0	23.30	-8.0	48.7	48.5	46.5	2.06	23.597		
700.0	700.0	698.8	698.5	1.2	1.2	32.05	-13.9	47.7	46.7	44.2	2.43	19.234		
800.0	799.9	798.0	797.4	1.4	1.4	44.76	-21.6	46.4	45.3	42.5	2.81	16.141		
819.7	819.6	817.6	816.9	1.4	1.5	47.74	-23.3	46.1	45.2	42.4	2.88	15.701 CC, ES		
900.0	899.7	897.1	896.1	1.6	1.7	60.68	-30.5	44.8	46.1	42.9	3.18	14.490		
1,000.0	999.4	996.2	994.7	1.8	1.9	76.49	-39.5	43.3	50.0	46.5	3.54	14.106 SF		
1,100.0	1,099.1	1,095.2	1,093.3	2.0	2.1	89.34	-48.4	41.8	57.1	53.2	3.90	14.643		
1,200.0	1,198.8	1,194.2	1,191.9	2.2	2.3	99.01	-57.4	40.2	66.4	62.1	4.25	15.607		
1,300.0	1,298.5	1,293.2	1,290.5	2.4	2.6	106.17	-66.4	38.7	77.1	72.5	4.61	16.716		
1,400.0	1,398.3	1,392.2	1,389.1	2.6	2.8	111.54	-75.3	37.2	88.7	83.8	4.98	17.829		
1,500.0	1,498.0	1,491.3	1,487.7	2.8	3.0	115.64	-84.3	35.6	101.0	95.6	5.34	18.890		
1,600.0	1,597.7	1,590.3	1,586.3	3.0	3.2	118.85	-93.3	34.1	113.6	107.9	5.71	19.874		
1,700.0	1,697.4	1,689.3	1,684.9	3.2	3.5	121.41	-102.2	32.6	126.5	120.4	6.09	20.779		
1,800.0	1,797.1	1,788.3	1,783.5	3.5	3.7	123.50	-111.2	31.0	139.6	133.1	6.46	21.605		
1,900.0	1,896.9	1,887.4	1,882.1	3.7	3.9	125.22	-120.2	29.5	152.8	146.0	6.83	22.360		
2,000.0	1,996.6	1,986.4	1,980.7	3.9	4.2	126.67	-129.1	28.0	166.2	159.0	7.21	23.049		
2,100.0	2,096.3	2,085.4	2,079.3	4.1	4.4	127.91	-138.1	26.4	179.6	172.1	7.59	23.679		
2,200.0	2,196.0	2,184.4	2,177.9	4.3	4.6	128.97	-147.1	24.9	193.2	185.2	7.96	24.257		
2,300.0	2,295.7	2,283.4	2,276.5	4.5	4.9	129.89	-156.0	23.4	206.7	198.4	8.34	24.788		
2,400.0	2,395.4	2,382.5	2,375.1	4.7	5.1	130.70	-165.0	21.8	220.4	211.7	8.72	25.278		
2,500.0	2,495.2	2,481.5	2,473.8	5.0	5.3	131.42	-174.0	20.3	234.0	224.9	9.10	25.730		
2,600.0	2,594.9	2,580.5	2,572.4	5.2	5.6	132.05	-182.9	18.8	247.7	238.3	9.47	26.148		
2,700.0	2,694.6	2,679.5	2,671.0	5.4	5.8	132.62	-191.9	17.2	261.5	251.6	9.85	26.537		
2,800.0	2,794.3	2,778.6	2,769.6	5.6	6.0	133.13	-200.9	15.7	275.2	265.0	10.23	26.899		
2,900.0	2,894.0	2,877.6	2,868.2	5.8	6.3	133.60	-209.8	14.2	289.0	278.4	10.61	27.236		
3,000.0	2,993.7	2,976.6	2,966.8	6.0	6.5	134.02	-218.8	12.6	302.8	291.8	10.99	27.551		
3,100.0	3,093.5	3,075.6	3,065.4	6.3	6.7	134.40	-227.8	11.1	316.6	305.2	11.37	27.846		
3,200.0	3,193.2	3,174.6	3,164.0	6.5	7.0	134.76	-236.7	9.6	330.4	318.6	11.75	28.123		
3,300.0	3,292.9	3,273.7	3,262.6	6.7	7.2	135.08	-245.7	8.0	344.2	332.1	12.13	28.383		
3,400.0	3,392.6	3,372.7	3,361.2	6.9	7.4	135.38	-254.7	6.5	358.0	345.5	12.51	28.628		
3,500.0	3,492.3	3,471.7	3,459.8	7.1	7.7	135.66	-263.6	5.0	371.9	359.0	12.89	28.859		
3,600.0	3,592.0	3,570.7	3,558.4	7.4	7.9	135.91	-272.6	3.4	385.7	372.4	13.26	29.078		
3,700.0	3,691.8	3,669.8	3,657.0	7.6	8.1	136.15	-281.6	1.9	399.6	385.9	13.64	29.284		
3,800.0	3,791.5	3,768.8	3,755.6	7.8	8.4	136.38	-290.5	0.4	413.4	399.4	14.02	29.480		
3,900.0	3,891.2	3,867.8	3,854.2	8.0	8.6	136.59	-299.5	-1.2	427.3	412.9	14.40	29.666		
4,000.0	3,990.9	3,966.8	3,952.8	8.2	8.8	136.78	-308.5	-2.7	441.2	426.4	14.78	29.842		
4,100.0	4,090.6	4,065.8	4,051.4	8.4	9.1	136.97	-317.4	-4.2	455.1	439.9	15.16	30.010		
4,200.0	4,190.3	4,164.9	4,150.0	8.7	9.3	137.14	-326.4	-5.7	468.9	453.4	15.54	30.170		
4,300.0	4,290.1	4,263.9	4,248.6	8.9	9.5	137.30	-335.4	-7.3	482.8	466.9	15.92	30.322		
4,400.0	4,389.8	4,362.9	4,347.2	9.1	9.8	137.46	-344.3	-8.8	496.7	480.4	16.30	30.468		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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: 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	96.53	-6.3	55.0	55.3					
100.0	100.0	99.0	99.0	0.1	0.1	96.53	-6.3	55.0	55.3	55.0	0.30	187.405		
200.0	200.0	199.0	199.0	0.3	0.3	96.53	-6.3	55.0	55.3	54.7	0.64	85.907		
300.0	300.0	299.0	299.0	0.5	0.5	96.53	-6.3	55.0	55.3	54.3	0.99	55.711		
400.0	400.0	399.0	399.0	0.7	0.7	96.53	-6.3	55.0	55.3	54.0	1.34	41.222 CC, ES		
500.0	500.0	498.5	498.5	0.8	0.8	97.25	-7.0	55.4	55.8	54.1	1.69	33.010		
600.0	600.0	597.9	597.8	1.0	1.0	23.31	-9.3	56.5	56.5	54.5	2.04	27.693		
700.0	700.0	697.1	697.0	1.2	1.2	27.79	-13.1	58.5	56.9	54.5	2.39	23.768		
800.0	799.9	796.2	795.9	1.4	1.4	34.27	-18.4	61.3	57.4	54.7	2.75	20.878		
900.0	899.7	895.0	894.4	1.6	1.6	42.59	-25.3	64.8	58.8	55.7	3.11	18.896		
1,000.0	999.4	993.8	992.8	1.8	1.8	51.96	-33.5	69.1	62.1	58.6	3.48	17.843		
1,100.0	1,099.1	1,093.2	1,091.7	2.0	2.0	60.44	-42.3	73.7	67.3	63.4	3.85	17.474		
1,200.0	1,198.8	1,192.6	1,190.6	2.2	2.3	67.58	-51.1	78.2	73.8	69.5	4.23	17.448		
1,300.0	1,298.5	1,292.0	1,289.5	2.4	2.5	73.50	-59.8	82.8	81.2	76.6	4.61	17.612		
1,400.0	1,398.3	1,391.4	1,388.4	2.6	2.7	78.39	-68.6	87.3	89.3	84.3	5.00	17.875		
1,500.0	1,498.0	1,490.8	1,487.3	2.8	3.0	82.45	-77.3	91.9	98.0	92.6	5.39	18.183		
1,600.0	1,597.7	1,590.2	1,586.2	3.0	3.2	85.83	-86.1	96.4	107.1	101.3	5.79	18.508		
1,700.0	1,697.4	1,689.6	1,685.1	3.2	3.4	88.68	-94.9	101.0	116.5	110.3	6.19	18.832		
1,800.0	1,797.1	1,789.0	1,784.0	3.5	3.7	91.10	-103.6	105.5	126.2	119.6	6.59	19.145		
1,900.0	1,896.9	1,888.4	1,883.0	3.7	3.9	93.17	-112.4	110.1	136.0	129.0	6.99	19.443		
2,000.0	1,996.6	1,987.8	1,981.9	3.9	4.2	94.96	-121.1	114.6	146.0	138.6	7.40	19.725		
2,100.0	2,096.3	2,087.2	2,080.8	4.1	4.4	96.52	-129.9	119.2	156.1	148.3	7.81	19.989		
2,200.0	2,196.0	2,186.6	2,179.7	4.3	4.6	97.89	-138.7	123.8	166.3	158.1	8.22	20.237		
2,300.0	2,295.7	2,286.1	2,278.6	4.5	4.9	99.10	-147.4	128.3	176.6	168.0	8.63	20.468		
2,400.0	2,395.4	2,385.5	2,377.5	4.7	5.1	100.18	-156.2	132.9	187.0	177.9	9.04	20.684		
2,500.0	2,495.2	2,484.9	2,476.4	5.0	5.4	101.15	-164.9	137.4	197.4	188.0	9.45	20.886		
2,600.0	2,594.9	2,584.3	2,575.3	5.2	5.6	102.01	-173.7	142.0	207.9	198.0	9.86	21.076		
2,700.0	2,694.6	2,683.7	2,674.3	5.4	5.9	102.80	-182.5	146.5	218.4	208.1	10.28	21.253		
2,800.0	2,794.3	2,783.1	2,773.2	5.6	6.1	103.51	-191.2	151.1	229.0	218.3	10.69	21.418		
2,900.0	2,894.0	2,882.5	2,872.1	5.8	6.3	104.16	-200.0	155.6	239.6	228.5	11.10	21.574		
3,000.0	2,993.7	2,981.9	2,971.0	6.0	6.6	104.75	-208.7	160.2	250.2	238.7	11.52	21.721		
3,100.0	3,093.5	3,081.3	3,069.9	6.3	6.8	105.30	-217.5	164.7	260.8	248.9	11.93	21.858		
3,200.0	3,193.2	3,180.7	3,168.8	6.5	7.1	105.80	-226.3	169.3	271.5	259.1	12.35	21.988		
3,300.0	3,292.9	3,280.1	3,267.7	6.7	7.3	106.27	-235.0	173.8	282.2	269.4	12.76	22.111		
3,400.0	3,392.6	3,379.5	3,366.6	6.9	7.6	106.70	-243.8	178.4	292.9	279.7	13.18	22.226		
3,500.0	3,492.3	3,478.9	3,465.5	7.1	7.8	107.10	-252.5	182.9	303.6	290.0	13.59	22.336		
3,600.0	3,592.0	3,578.3	3,564.5	7.4	8.0	107.47	-261.3	187.5	314.3	300.3	14.01	22.440		
3,700.0	3,691.8	3,677.7	3,663.4	7.6	8.3	107.82	-270.1	192.0	325.0	310.6	14.42	22.538		
3,800.0	3,791.5	3,777.1	3,762.3	7.8	8.5	108.15	-278.8	196.6	335.8	321.0	14.84	22.632		
3,900.0	3,891.2	3,876.5	3,861.2	8.0	8.8	108.45	-287.6	201.2	346.5	331.3	15.25	22.720		
4,000.0	3,990.9	3,975.9	3,960.1	8.2	9.0	108.74	-296.3	205.7	357.3	341.7	15.67	22.805		
4,100.0	4,090.6	4,075.3	4,059.0	8.4	9.3	109.01	-305.1	210.3	368.1	352.0	16.08	22.886		
4,200.0	4,190.3	4,174.7	4,157.9	8.7	9.5	109.27	-313.9	214.8	378.9	362.4	16.50	22.963		
4,300.0	4,290.1	4,274.1	4,256.8	8.9	9.8	109.51	-322.6	219.4	389.7	372.8	16.92	23.036		
4,400.0	4,389.8	4,373.5	4,355.7	9.1	10.0	109.74	-331.4	223.9	400.5	383.1	17.33	23.106		
4,500.0	4,489.5	4,472.9	4,454.7	9.3	10.2	109.95	-340.1	228.5	411.3	393.5	17.75	23.173		
4,600.0	4,589.2	4,572.3	4,553.6	9.5	10.5	110.16	-348.9	233.0	422.1	403.9	18.16	23.238		
4,700.0	4,688.9	4,671.7	4,652.5	9.7	10.7	110.35	-357.7	237.6	432.9	414.3	18.58	23.299		
4,800.0	4,788.6	4,771.1	4,751.4	10.0	11.0	110.54	-366.4	242.1	443.7	424.7	19.00	23.358		
4,900.0	4,888.4	4,870.5	4,850.3	10.2	11.2	110.71	-375.2	246.7	454.6	435.1	19.41	23.415		
5,000.0	4,988.1	4,969.9	4,949.2	10.4	11.5	110.88	-383.9	251.2	465.4	445.6	19.83	23.470		
5,100.0	5,087.8	5,069.3	5,048.1	10.6	11.7	111.04	-392.7	255.8	476.2	456.0	20.25	23.522		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
5,200.0	5,187.5	5,168.7	5,147.0	10.8	11.9	111.20	-401.5	260.3	487.1	466.4	20.66	23.573	
5,300.0	5,287.2	5,268.1	5,245.9	11.1	12.2	111.34	-410.2	264.9	497.9	476.8	21.08	23.621	
7,300.0	7,280.2	8,165.3	7,712.0	15.4	15.3	138.55	92.0	353.2	451.3	422.7	28.64	15.758	
7,400.0	7,374.3	8,132.3	7,712.0	15.5	15.2	139.60	59.1	354.4	364.1	335.9	28.23	12.900	
7,500.0	7,461.3	8,083.5	7,712.0	15.7	15.1	137.47	10.3	356.1	287.2	260.1	27.13	10.587	
7,600.0	7,538.5	7,999.5	7,707.5	15.9	14.9	127.16	-73.4	358.8	222.4	196.2	26.21	8.487	
7,700.0	7,603.7	7,920.5	7,692.3	16.3	15.0	112.86	-150.9	360.9	171.7	145.0	26.68	6.436	
7,800.0	7,654.8	7,849.4	7,669.7	16.8	15.1	94.94	-218.2	362.3	147.4	119.1	28.24	5.218	
7,819.4	7,662.9	7,836.3	7,664.6	16.9	15.1	91.15	-230.3	362.5	146.7	118.2	28.53	5.142 SF	
7,900.0	7,690.2	7,783.3	7,641.3	17.4	15.2	75.33	-277.9	363.1	157.5	128.7	28.81	5.467	
8,000.0	7,709.0	7,720.4	7,608.1	18.2	15.5	58.14	-331.3	363.6	192.3	165.1	27.12	7.089	
8,100.0	7,712.0	7,660.4	7,571.2	19.1	15.7	46.83	-378.5	363.6	238.0	212.9	25.15	9.463	
8,200.0	7,712.0	7,608.6	7,535.4	20.1	15.9	40.38	-416.0	363.4	295.2	270.8	24.36	12.119	
8,300.0	7,712.0	7,565.0	7,502.8	21.2	16.1	35.72	-445.0	363.0	362.0	338.1	23.85	15.176	
8,400.0	7,712.0	7,528.1	7,473.7	22.4	16.2	32.32	-467.5	362.5	435.6	412.1	23.58	18.473	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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: 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	99.0	99.0	0.1	0.1	90.31	-0.3	60.0	60.0	59.7	0.30	203.236		
200.0	200.0	199.0	199.0	0.3	0.3	90.31	-0.3	60.0	60.0	59.4	0.64	93.164		
300.0	300.0	299.0	299.0	0.5	0.5	90.31	-0.3	60.0	60.0	59.0	0.99	60.417		
400.0	400.0	399.0	399.0	0.7	0.7	90.31	-0.3	60.0	60.0	58.7	1.34	44.704		
500.0	500.0	499.0	499.0	0.8	0.8	90.31	-0.3	60.0	60.0	58.3	1.69	35.477		
600.0	600.0	598.3	598.3	1.0	1.0	14.72	-1.0	60.5	59.7	57.7	2.04	29.284		
700.0	700.0	697.6	697.5	1.2	1.2	17.22	-2.9	62.2	59.0	56.6	2.39	24.688		
800.0	799.9	796.7	796.6	1.4	1.4	21.52	-6.1	65.0	58.0	55.2	2.74	21.159		
900.0	899.7	895.8	895.4	1.6	1.6	27.72	-10.7	68.9	57.2	54.1	3.10	18.466		
933.3	932.9	928.7	928.3	1.6	1.6	30.18	-12.5	70.4	57.1	53.9	3.22	17.752 CC, ES		
1,000.0	999.4	994.6	994.0	1.8	1.8	35.56	-16.5	73.9	57.5	54.0	3.46	16.623		
1,100.0	1,099.1	1,093.3	1,092.2	2.0	2.0	43.75	-23.6	80.0	60.4	56.6	3.83	15.795		
1,200.0	1,198.8	1,191.7	1,190.0	2.2	2.2	51.34	-32.0	87.2	66.2	62.0	4.20	15.764		
1,300.0	1,298.5	1,290.7	1,288.3	2.4	2.5	57.75	-41.3	95.2	74.2	69.6	4.58	16.207		
1,400.0	1,398.3	1,390.1	1,386.9	2.6	2.7	62.89	-50.7	103.3	83.1	78.1	4.97	16.726		
1,500.0	1,498.0	1,489.5	1,485.5	2.8	3.0	67.02	-60.2	111.4	92.4	87.1	5.36	17.252		
1,600.0	1,597.7	1,588.8	1,584.0	3.0	3.2	70.37	-69.6	119.5	102.2	96.4	5.75	17.757		
1,700.0	1,697.4	1,688.2	1,682.6	3.2	3.5	73.14	-79.0	127.6	112.2	106.1	6.16	18.230		
1,800.0	1,797.1	1,787.5	1,781.2	3.5	3.8	75.45	-88.5	135.7	122.5	115.9	6.56	18.667		
1,900.0	1,896.9	1,886.9	1,879.8	3.7	4.0	77.40	-97.9	143.8	132.9	125.9	6.97	19.068		
2,000.0	1,996.6	1,986.3	1,978.4	3.9	4.3	79.06	-107.3	151.9	143.5	136.1	7.38	19.435		
2,100.0	2,096.3	2,085.6	2,076.9	4.1	4.6	80.50	-116.8	160.0	154.1	146.3	7.80	19.770		
2,200.0	2,196.0	2,185.0	2,175.5	4.3	4.8	81.75	-126.2	168.1	164.9	156.6	8.21	20.076		
2,300.0	2,295.7	2,284.4	2,274.1	4.5	5.1	82.84	-135.6	176.2	175.7	167.0	8.63	20.356		
2,400.0	2,395.4	2,383.7	2,372.7	4.7	5.4	83.81	-145.1	184.3	186.5	177.5	9.05	20.614		
2,500.0	2,495.2	2,483.1	2,471.3	5.0	5.7	84.68	-154.5	192.4	197.5	188.0	9.47	20.850		
2,600.0	2,594.9	2,582.4	2,569.8	5.2	5.9	85.45	-163.9	200.5	208.4	198.5	9.89	21.068		
2,700.0	2,694.6	2,681.8	2,668.4	5.4	6.2	86.14	-173.4	208.6	219.4	209.1	10.31	21.270		
2,800.0	2,794.3	2,781.2	2,767.0	5.6	6.5	86.77	-182.8	216.7	230.4	219.7	10.74	21.456		
2,900.0	2,894.0	2,880.5	2,865.6	5.8	6.8	87.34	-192.2	224.8	241.5	230.3	11.16	21.630		
3,000.0	2,993.7	2,979.9	2,964.2	6.0	7.0	87.86	-201.7	232.9	252.5	240.9	11.59	21.791		
3,100.0	3,093.5	3,079.2	3,062.7	6.3	7.3	88.34	-211.1	241.0	263.6	251.6	12.01	21.941		
3,200.0	3,193.2	3,178.6	3,161.3	6.5	7.6	88.78	-220.5	249.1	274.7	262.3	12.44	22.081		
3,300.0	3,292.9	3,278.0	3,259.9	6.7	7.9	89.18	-229.9	257.3	285.8	272.9	12.87	22.212		
3,400.0	3,392.6	3,377.3	3,358.5	6.9	8.1	89.56	-239.4	265.4	296.9	283.6	13.29	22.335		
3,500.0	3,492.3	3,476.7	3,457.1	7.1	8.4	89.91	-248.8	273.5	308.1	294.3	13.72	22.451		
3,600.0	3,592.0	3,576.0	3,555.6	7.4	8.7	90.23	-258.2	281.6	319.2	305.1	14.15	22.560		
3,700.0	3,691.8	3,675.4	3,654.2	7.6	9.0	90.53	-267.7	289.7	330.4	315.8	14.58	22.663		
3,800.0	3,791.5	3,774.8	3,752.8	7.8	9.2	90.81	-277.1	297.8	341.5	326.5	15.01	22.760		
3,900.0	3,891.2	3,874.1	3,851.4	8.0	9.5	91.08	-286.5	305.9	352.7	337.3	15.44	22.851		
4,000.0	3,990.9	3,973.5	3,950.0	8.2	9.8	91.32	-296.0	314.0	363.9	348.0	15.86	22.938		
4,100.0	4,090.6	4,072.9	4,048.5	8.4	10.1	91.56	-305.4	322.1	375.1	358.8	16.29	23.020		
4,200.0	4,190.3	4,172.2	4,147.1	8.7	10.3	91.78	-314.8	330.2	386.3	369.6	16.72	23.098		
4,300.0	4,290.1	4,271.6	4,245.7	8.9	10.6	91.98	-324.3	338.3	397.5	380.3	17.15	23.173		
4,400.0	4,389.8	4,370.9	4,344.3	9.1	10.9	92.18	-333.7	346.4	408.7	391.1	17.58	23.243		
4,500.0	4,489.5	4,470.3	4,442.9	9.3	11.2	92.36	-343.1	354.5	419.9	401.9	18.01	23.311		
4,600.0	4,589.2	4,569.7	4,541.4	9.5	11.4	92.54	-352.6	362.6	431.1	412.7	18.44	23.375		
4,700.0	4,688.9	4,669.0	4,640.0	9.7	11.7	92.71	-362.0	370.7	442.3	423.4	18.87	23.436		
4,800.0	4,788.6	4,768.4	4,738.6	10.0	12.0	92.86	-371.4	378.8	453.5	434.2	19.30	23.495		
4,900.0	4,888.4	4,867.7	4,837.2	10.2	12.3	93.02	-380.9	386.9	464.8	445.0	19.73	23.551		
5,000.0	4,988.1	4,967.1	4,935.8	10.4	12.6	93.16	-390.3	395.0	476.0	455.8	20.16	23.605		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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			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	5,087.8	5,066.5	5,034.3	10.6	12.8	93.30	-399.7	403.1	487.2	466.6	20.59	23.657	
5,200.0	5,187.5	5,165.8	5,132.9	10.8	13.1	93.43	-409.2	411.2	498.4	477.4	21.03	23.706	
7,000.0	6,982.4	7,914.9	7,429.0	14.8	16.8	17.47	112.3	593.4	467.3	440.7	26.58	17.578	
7,100.0	7,082.1	7,916.6	7,429.0	15.0	16.8	16.51	114.0	593.4	370.3	343.6	26.71	13.861	
7,200.0	7,181.8	7,916.0	7,429.0	15.2	16.8	-55.50	113.4	593.4	275.5	249.1	26.39	10.440	
7,300.0	7,280.2	7,900.0	7,429.0	15.4	16.8	-94.59	97.5	593.6	187.4	160.8	26.59	7.048	
7,400.0	7,374.3	7,867.2	7,429.0	15.5	16.7	-94.59	64.7	593.9	119.7	93.1	26.64	4.494	
7,471.0	7,436.9	7,834.2	7,429.0	15.6	16.6	-82.54	31.7	594.1	101.9	75.1	26.74	3.809 SF	
7,500.0	7,461.3	7,818.5	7,429.0	15.7	16.6	-75.48	16.0	594.3	104.8	78.0	26.80	3.909	
7,600.0	7,538.5	7,762.8	7,427.5	15.9	16.5	-51.33	-39.7	594.6	145.4	119.1	26.25	5.538	
7,700.0	7,603.7	7,708.7	7,421.1	16.3	16.4	-34.54	-93.4	594.6	204.8	180.7	24.10	8.498	
7,800.0	7,654.8	7,650.0	7,408.4	16.8	16.5	-23.99	-150.7	594.1	266.4	244.9	21.45	12.418	
7,900.0	7,690.2	7,600.0	7,393.1	17.4	16.5	-18.16	-198.3	593.2	324.6	305.3	19.27	16.847	
8,000.0	7,709.0	7,550.0	7,373.7	18.2	16.6	-14.30	-244.3	592.0	377.6	359.6	17.98	20.998	
8,100.0	7,712.0	7,500.0	7,350.3	19.1	16.7	-12.18	-288.5	590.5	425.6	407.7	17.85	23.844	
8,200.0	7,712.0	7,450.0	7,323.2	20.1	16.9	-11.09	-330.5	588.7	478.6	460.7	17.93	26.690	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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: 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	91.73	-2.5	81.7	81.7					
100.0	100.0	99.0	99.0	0.1	0.1	91.73	-2.5	81.7	81.7	81.4	0.30	276.837		
200.0	200.0	199.0	199.0	0.3	0.3	91.73	-2.5	81.7	81.7	81.1	0.64	126.902		
300.0	300.0	299.0	299.0	0.5	0.5	91.73	-2.5	81.7	81.7	80.7	0.99	82.297		
400.0	400.0	399.0	399.0	0.7	0.7	91.73	-2.5	81.7	81.7	80.4	1.34	60.893		
500.0	500.0	499.0	499.0	0.8	0.8	91.73	-2.5	81.7	81.7	80.0	1.69	48.325		
600.0	600.0	599.0	599.0	1.0	1.0	15.50	-2.5	81.7	80.9	78.8	2.04	39.648		
700.0	700.0	697.9	697.8	1.2	1.2	16.36	-3.0	82.4	79.1	76.7	2.39	33.123		
800.0	799.9	796.7	796.6	1.4	1.4	18.34	-4.5	84.4	77.0	74.3	2.73	28.173		
900.0	899.7	895.4	895.3	1.6	1.5	21.53	-7.1	87.8	75.0	71.9	3.08	24.309		
1,000.0	999.4	994.1	993.8	1.8	1.7	25.90	-10.7	92.5	73.5	70.1	3.44	21.375		
1,025.0	1,024.3	1,018.8	1,018.4	1.8	1.8	27.11	-11.7	93.9	73.5	69.9	3.53	20.811 CC, ES		
1,100.0	1,099.1	1,092.7	1,092.1	2.0	1.9	30.89	-15.3	98.6	74.1	70.3	3.80	19.489		
1,200.0	1,198.8	1,191.2	1,190.2	2.2	2.1	36.10	-20.9	106.0	76.8	72.7	4.17	18.444		
1,300.0	1,298.5	1,289.5	1,287.8	2.4	2.4	41.10	-27.5	114.7	81.9	77.4	4.54	18.055		
1,400.0	1,398.3	1,387.6	1,385.1	2.6	2.6	45.58	-35.2	124.7	89.2	84.3	4.91	18.171		
1,500.0	1,498.0	1,485.3	1,481.8	2.8	2.9	49.38	-43.8	136.0	98.7	93.5	5.29	18.670		
1,600.0	1,597.7	1,584.5	1,579.8	3.0	3.2	52.54	-53.0	148.2	109.5	103.8	5.67	19.295		
1,700.0	1,697.4	1,683.8	1,677.9	3.2	3.5	55.14	-62.3	160.4	120.5	114.4	6.06	19.874		
1,800.0	1,797.1	1,783.1	1,776.0	3.5	3.8	57.29	-71.5	172.6	131.7	125.2	6.45	20.402		
1,900.0	1,896.9	1,882.3	1,874.1	3.7	4.1	59.11	-80.8	184.8	143.1	136.2	6.85	20.881		
2,000.0	1,996.6	1,981.6	1,972.1	3.9	4.4	60.66	-90.0	196.9	154.5	147.3	7.25	21.314		
2,100.0	2,096.3	2,080.8	2,070.2	4.1	4.7	61.99	-99.3	209.1	166.1	158.5	7.65	21.707		
2,200.0	2,196.0	2,180.1	2,168.3	4.3	5.0	63.15	-108.5	221.3	177.8	169.7	8.06	22.062		
2,300.0	2,295.7	2,279.4	2,266.4	4.5	5.3	64.17	-117.8	233.5	189.5	181.0	8.47	22.385		
2,400.0	2,395.4	2,378.6	2,364.4	4.7	5.6	65.06	-127.0	245.7	201.3	192.4	8.88	22.678		
2,500.0	2,495.2	2,477.9	2,462.5	5.0	5.9	65.86	-136.3	257.8	213.1	203.8	9.29	22.945		
2,600.0	2,594.9	2,577.1	2,560.6	5.2	6.2	66.58	-145.5	270.0	224.9	215.2	9.70	23.190		
2,700.0	2,694.6	2,676.4	2,658.6	5.4	6.5	67.22	-154.8	282.2	236.8	226.7	10.11	23.414		
2,800.0	2,794.3	2,775.6	2,756.7	5.6	6.8	67.80	-164.0	294.4	248.7	238.2	10.53	23.620		
2,900.0	2,894.0	2,874.9	2,854.8	5.8	7.1	68.33	-173.3	306.5	260.7	249.7	10.95	23.810		
3,000.0	2,993.7	2,974.2	2,952.9	6.0	7.4	68.81	-182.5	318.7	272.6	261.3	11.37	23.985		
3,100.0	3,093.5	3,073.4	3,050.9	6.3	7.8	69.25	-191.8	330.9	284.6	272.8	11.79	24.147		
3,200.0	3,193.2	3,172.7	3,149.0	6.5	8.1	69.66	-201.0	343.1	296.6	284.4	12.21	24.298		
3,300.0	3,292.9	3,271.9	3,247.1	6.7	8.4	70.03	-210.3	355.3	308.6	296.0	12.63	24.438		
3,400.0	3,392.6	3,371.2	3,345.1	6.9	8.7	70.38	-219.5	367.4	320.6	307.6	13.05	24.569		
3,500.0	3,492.3	3,470.4	3,443.2	7.1	9.0	70.70	-228.8	379.6	332.6	319.2	13.47	24.691		
3,600.0	3,592.0	3,569.7	3,541.3	7.4	9.3	71.00	-238.0	391.8	344.7	330.8	13.89	24.805		
3,700.0	3,691.8	3,669.0	3,639.4	7.6	9.7	71.28	-247.3	404.0	356.7	342.4	14.32	24.913		
3,800.0	3,791.5	3,768.2	3,737.4	7.8	10.0	71.54	-256.5	416.2	368.8	354.0	14.74	25.013		
3,900.0	3,891.2	3,867.5	3,835.5	8.0	10.3	71.78	-265.8	428.3	380.8	365.6	15.17	25.108		
4,000.0	3,990.9	3,966.7	3,933.6	8.2	10.6	72.01	-275.0	440.5	392.9	377.3	15.59	25.198		
4,100.0	4,090.6	4,066.0	4,031.7	8.4	10.9	72.23	-284.3	452.7	404.9	388.9	16.02	25.282		
4,200.0	4,190.3	4,165.3	4,129.7	8.7	11.2	72.43	-293.5	464.9	417.0	400.6	16.44	25.362		
4,300.0	4,290.1	4,264.5	4,227.8	8.9	11.6	72.62	-302.8	477.0	429.1	412.2	16.87	25.437		
4,400.0	4,389.8	4,363.8	4,325.9	9.1	11.9	72.80	-312.0	489.2	441.2	423.9	17.30	25.509		
4,500.0	4,489.5	4,463.0	4,423.9	9.3	12.2	72.98	-321.3	501.4	453.3	435.5	17.72	25.577		
4,600.0	4,589.2	4,562.3	4,522.0	9.5	12.5	73.14	-330.6	513.6	465.4	447.2	18.15	25.642		
4,700.0	4,688.9	4,661.5	4,620.1	9.7	12.8	73.29	-339.8	525.8	477.5	458.9	18.58	25.703		
4,800.0	4,788.6	4,760.8	4,718.2	10.0	13.1	73.44	-349.1	537.9	489.6	470.5	19.00	25.762		
7,500.0	7,461.3	8,132.7	7,712.0	15.7	20.4	-104.31	15.1	909.7	485.7	458.1	27.67	17.553		
7,600.0	7,538.5	8,040.9	7,707.2	15.9	20.3	-100.63	-76.5	909.1	443.9	416.1	27.75	15.997		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> 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							
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	
7,700.0	7,603.7	7,952.4	7,689.2	16.3	20.3	-94.97	-163.0	906.9	413.2	385.2	28.07	14.723		
7,800.0	7,654.8	7,875.8	7,663.1	16.8	20.3	-88.71	-234.9	903.6	396.1	367.5	28.56	13.870		
7,873.0	7,682.3	7,824.4	7,640.3	17.2	20.4	-83.68	-280.9	900.8	392.5	363.5	29.00	13.533		
7,900.0	7,690.2	7,806.1	7,631.2	17.4	20.4	-81.74	-296.7	899.7	393.0	363.8	29.15	13.480 SF		
8,000.0	7,709.0	7,740.8	7,594.8	18.2	20.6	-74.28	-350.7	895.2	402.2	372.4	29.83	13.484		
8,100.0	7,712.0	7,679.2	7,555.1	19.1	20.7	-67.57	-397.5	890.2	421.3	390.7	30.52	13.804		
8,200.0	7,712.0	7,626.9	7,517.7	20.1	20.8	-62.60	-433.7	885.6	452.0	421.0	30.98	14.589		
8,300.0	7,712.0	7,583.6	7,484.3	21.2	20.9	-58.42	-460.9	881.4	494.7	463.4	31.38	15.768		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	89.22	1.2	87.3	87.3					
100.0	100.0	99.0	99.0	0.1	0.1	89.22	1.2	87.3	87.3	87.0	0.30	295.692		
200.0	200.0	199.0	199.0	0.3	0.3	89.22	1.2	87.3	87.3	86.7	0.64	135.546		
300.0	300.0	299.0	299.0	0.5	0.5	89.22	1.2	87.3	87.3	86.3	0.99	87.902		
400.0	400.0	399.0	399.0	0.7	0.7	89.22	1.2	87.3	87.3	86.0	1.34	65.041		
500.0	500.0	499.0	499.0	0.8	0.8	89.22	1.2	87.3	87.3	85.6	1.69	51.617		
600.0	600.0	599.0	599.0	1.0	1.0	12.96	1.2	87.3	86.4	84.4	2.04	42.372		
700.0	700.0	699.0	699.0	1.2	1.2	13.36	1.2	87.3	83.9	81.5	2.39	35.123		
800.0	799.9	797.7	797.6	1.4	1.4	14.37	0.8	88.0	80.4	77.7	2.73	29.399		
900.0	899.7	896.3	896.3	1.6	1.5	16.37	-0.4	90.2	76.8	73.7	3.08	24.919		
1,000.0	999.4	995.0	994.9	1.8	1.7	19.41	-2.4	94.0	73.6	70.2	3.43	21.448		
1,100.0	1,099.1	1,093.7	1,093.4	2.0	1.9	23.18	-5.3	99.2	72.2	68.5	3.79	19.070		
1,120.4	1,119.5	1,113.9	1,113.5	2.0	1.9	24.01	-5.9	100.4	72.2	68.3	3.86	18.697 CC, ES		
1,200.0	1,198.8	1,192.4	1,191.8	2.2	2.1	27.41	-8.9	105.9	72.9	68.7	4.15	17.562		
1,300.0	1,298.5	1,290.9	1,289.9	2.4	2.3	31.78	-13.3	114.1	75.6	71.0	4.51	16.742		
1,400.0	1,398.3	1,389.3	1,387.7	2.6	2.5	35.95	-18.5	123.7	80.4	75.5	4.88	16.465 SF		
1,500.0	1,498.0	1,487.5	1,485.0	2.8	2.8	39.68	-24.5	134.8	87.3	82.0	5.25	16.614		
1,600.0	1,597.7	1,585.4	1,581.9	3.0	3.0	42.82	-31.3	147.3	96.2	90.6	5.63	17.093		
1,700.0	1,697.4	1,683.0	1,678.2	3.2	3.3	45.37	-38.9	161.3	107.1	101.1	6.01	17.827		
1,800.0	1,797.1	1,780.2	1,773.8	3.5	3.6	47.36	-47.1	176.6	119.9	113.5	6.39	18.758		
1,900.0	1,896.9	1,876.9	1,868.7	3.7	4.0	48.88	-56.2	193.2	134.4	127.6	6.77	19.842		
2,000.0	1,996.6	1,974.3	1,963.9	3.9	4.3	50.03	-65.9	211.2	150.5	143.3	7.16	21.022		
2,100.0	2,096.3	2,072.9	2,060.2	4.1	4.7	50.96	-75.9	229.7	166.9	159.3	7.55	22.106		
2,200.0	2,196.0	2,171.5	2,156.6	4.3	5.1	51.72	-85.9	248.2	183.3	175.3	7.94	23.084		
2,300.0	2,295.7	2,270.1	2,252.9	4.5	5.5	52.35	-95.9	266.7	199.7	191.4	8.33	23.968		
2,400.0	2,395.4	2,368.8	2,349.3	4.7	5.8	52.89	-105.9	285.2	216.2	207.4	8.73	24.770		
2,500.0	2,495.2	2,467.4	2,445.6	5.0	6.2	53.35	-115.9	303.6	232.7	223.5	9.12	25.500		
2,600.0	2,594.9	2,566.0	2,542.0	5.2	6.6	53.76	-125.9	322.1	249.1	239.6	9.52	26.168		
2,700.0	2,694.6	2,664.6	2,638.3	5.4	7.0	54.11	-136.0	340.6	265.6	255.7	9.92	26.779		
2,800.0	2,794.3	2,763.2	2,734.7	5.6	7.4	54.42	-146.0	359.1	282.2	271.8	10.32	27.342		
2,900.0	2,894.0	2,861.8	2,831.0	5.8	7.8	54.69	-156.0	377.6	298.7	288.0	10.72	27.861		
3,000.0	2,993.7	2,960.5	2,927.4	6.0	8.2	54.94	-166.0	396.0	315.2	304.1	11.12	28.341		
3,100.0	3,093.5	3,059.1	3,023.7	6.3	8.6	55.16	-176.0	414.5	331.7	320.2	11.52	28.786		
3,200.0	3,193.2	3,157.7	3,120.1	6.5	9.0	55.37	-186.0	433.0	348.3	336.3	11.93	29.199		
3,300.0	3,292.9	3,256.3	3,216.4	6.7	9.4	55.55	-196.0	451.5	364.8	352.5	12.33	29.585		
3,400.0	3,392.6	3,354.9	3,312.8	6.9	9.8	55.72	-206.0	470.0	381.3	368.6	12.73	29.944		
3,500.0	3,492.3	3,453.5	3,409.1	7.1	10.2	55.87	-216.0	488.4	397.9	384.7	13.14	30.281		
3,600.0	3,592.0	3,552.2	3,505.5	7.4	10.6	56.01	-226.0	506.9	414.4	400.9	13.54	30.597		
3,700.0	3,691.8	3,650.8	3,601.8	7.6	11.0	56.14	-236.0	525.4	431.0	417.0	13.95	30.894		
3,800.0	3,791.5	3,749.4	3,698.2	7.8	11.4	56.26	-246.0	543.9	447.5	433.2	14.36	31.173		
3,900.0	3,891.2	3,848.0	3,794.5	8.0	11.8	56.37	-256.0	562.4	464.1	449.3	14.76	31.436		
4,000.0	3,990.9	3,946.6	3,890.9	8.2	12.2	56.48	-266.0	580.8	480.6	465.5	15.17	31.684		
4,100.0	4,090.6	4,045.2	3,987.2	8.4	12.6	56.58	-276.0	599.3	497.2	481.6	15.58	31.919		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	91.56	-2.5	90.1	90.1					
100.0	100.0	99.0	99.0	0.1	0.1	91.56	-2.5	90.1	90.1	89.8	0.30	305.256		
200.0	200.0	199.0	199.0	0.3	0.3	91.56	-2.5	90.1	90.1	89.5	0.64	139.930		
300.0	300.0	299.0	299.0	0.5	0.5	91.56	-2.5	90.1	90.1	89.1	0.99	90.745		
400.0	400.0	399.0	399.0	0.7	0.7	91.56	-2.5	90.1	90.1	88.8	1.34	67.144 CC, ES		
500.0	500.0	497.5	497.5	0.8	0.8	91.72	-2.7	90.9	90.9	89.2	1.69	53.827		
600.0	600.0	596.0	596.0	1.0	1.0	15.92	-3.5	93.3	92.5	90.5	2.04	45.466		
700.0	700.0	694.4	694.3	1.2	1.2	17.07	-4.9	97.2	94.1	91.8	2.38	39.521		
800.0	799.9	792.8	792.5	1.4	1.4	18.76	-6.8	102.8	95.8	93.1	2.73	35.098		
900.0	899.7	891.1	890.5	1.6	1.6	20.93	-9.2	110.0	97.6	94.5	3.08	31.704		
1,000.0	999.4	989.3	988.3	1.8	1.8	23.48	-12.2	118.7	100.0	96.5	3.43	29.156		
1,100.0	1,099.1	1,087.4	1,085.7	2.0	2.0	26.03	-15.8	129.1	104.2	100.4	3.78	27.545		
1,200.0	1,198.8	1,185.2	1,182.8	2.2	2.3	28.44	-19.8	140.9	110.3	106.2	4.14	26.656		
1,300.0	1,298.5	1,282.9	1,279.4	2.4	2.6	30.61	-24.4	154.3	118.3	113.8	4.50	26.313 SF		
1,400.0	1,398.3	1,380.2	1,375.5	2.6	2.9	32.49	-29.5	169.3	128.1	123.3	4.86	26.390		
1,500.0	1,498.0	1,477.2	1,470.9	2.8	3.2	34.09	-35.0	185.6	139.8	134.6	5.22	26.791		
1,600.0	1,597.7	1,573.8	1,565.6	3.0	3.6	35.40	-41.1	203.5	153.2	147.6	5.58	27.448		
1,700.0	1,697.4	1,669.9	1,659.5	3.2	3.9	36.46	-47.7	222.7	168.3	162.4	5.95	28.308		
1,800.0	1,797.1	1,765.5	1,752.6	3.5	4.3	37.29	-54.7	243.4	185.2	178.9	6.31	29.333		
1,900.0	1,896.9	1,860.5	1,844.8	3.7	4.8	37.94	-62.2	265.3	203.7	197.0	6.68	30.491		
2,000.0	1,996.6	1,956.2	1,937.1	3.9	5.2	38.45	-70.2	288.8	223.7	216.7	7.05	31.739		
2,100.0	2,096.3	2,054.1	2,031.6	4.1	5.7	38.87	-78.5	313.1	244.1	236.7	7.42	32.888		
2,200.0	2,196.0	2,151.9	2,126.0	4.3	6.1	39.22	-86.8	337.5	264.6	256.8	7.80	33.924		
2,300.0	2,295.7	2,249.8	2,220.4	4.5	6.6	39.53	-95.1	361.8	285.0	276.8	8.18	34.861		
2,400.0	2,395.4	2,347.7	2,314.9	4.7	7.1	39.79	-103.4	386.2	305.4	296.9	8.55	35.712		
2,500.0	2,495.2	2,445.6	2,409.3	5.0	7.6	40.03	-111.7	410.5	325.9	317.0	8.93	36.488		
2,600.0	2,594.9	2,543.4	2,503.8	5.2	8.0	40.23	-120.0	434.9	346.4	337.0	9.31	37.199		
2,700.0	2,694.6	2,641.3	2,598.2	5.4	8.5	40.41	-128.3	459.2	366.8	357.1	9.69	37.852		
2,800.0	2,794.3	2,739.2	2,692.6	5.6	9.0	40.57	-136.6	483.6	387.3	377.2	10.07	38.453		
2,900.0	2,894.0	2,837.1	2,787.1	5.8	9.5	40.72	-144.9	507.9	407.7	397.3	10.45	39.009		
3,000.0	2,993.7	2,935.0	2,881.5	6.0	10.0	40.85	-153.2	532.3	428.2	417.4	10.83	39.524		
3,100.0	3,093.5	3,032.8	2,975.9	6.3	10.5	40.97	-161.5	556.6	448.7	437.5	11.22	40.003		
3,200.0	3,193.2	3,130.7	3,070.4	6.5	10.9	41.08	-169.9	581.0	469.1	457.5	11.60	40.449		
3,300.0	3,292.9	3,228.6	3,164.8	6.7	11.4	41.18	-178.2	605.3	489.6	477.6	11.98	40.865		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	89.29	1.2	95.7	95.7					
100.0	100.0	99.0	99.0	0.1	0.1	89.29	1.2	95.7	95.7	95.4	0.30	324.121		
200.0	200.0	199.0	199.0	0.3	0.3	89.29	1.2	95.7	95.7	95.0	0.64	148.578 CC, ES		
300.0	300.0	297.4	297.4	0.5	0.5	89.39	1.0	96.5	96.5	95.5	0.99	97.370		
400.0	400.0	395.7	395.7	0.7	0.7	89.67	0.6	99.0	99.0	97.7	1.34	73.767		
500.0	500.0	493.9	493.8	0.8	0.9	90.12	-0.2	103.1	103.2	101.5	1.70	60.681		
600.0	600.0	592.0	591.7	1.0	1.0	14.39	-1.3	108.9	108.3	106.2	2.03	53.347		
700.0	700.0	690.0	689.4	1.2	1.3	15.35	-2.7	116.3	113.3	110.9	2.38	47.701		
800.0	799.9	787.9	786.8	1.4	1.5	16.57	-4.4	125.3	118.4	115.7	2.72	43.511		
900.0	899.7	885.6	884.0	1.6	1.7	18.02	-6.4	135.9	123.6	120.6	3.07	40.292		
1,000.0	999.4	983.3	980.8	1.8	2.0	19.61	-8.7	148.2	129.4	125.9	3.42	37.861		
1,100.0	1,099.1	1,080.7	1,077.2	2.0	2.3	21.12	-11.3	162.1	136.8	133.0	3.77	36.323		
1,200.0	1,198.8	1,177.8	1,173.0	2.2	2.6	22.49	-14.2	177.5	146.0	141.9	4.12	35.471		
1,300.0	1,298.5	1,274.6	1,268.3	2.4	2.9	23.70	-17.4	194.4	157.0	152.5	4.47	35.139 SF		
1,400.0	1,398.3	1,371.0	1,362.8	2.6	3.3	24.74	-20.9	212.9	169.7	164.9	4.82	35.209		
1,500.0	1,498.0	1,466.9	1,456.6	2.8	3.7	25.63	-24.6	232.8	184.1	178.9	5.17	35.595		
1,600.0	1,597.7	1,562.4	1,549.6	3.0	4.1	26.36	-28.6	254.1	200.2	194.7	5.53	36.233		
1,700.0	1,697.4	1,657.3	1,641.6	3.2	4.5	26.97	-32.9	276.8	218.0	212.1	5.88	37.076		
1,800.0	1,797.1	1,751.6	1,732.7	3.5	5.0	27.45	-37.5	300.9	237.4	231.2	6.23	38.086		
1,900.0	1,896.9	1,845.4	1,822.8	3.7	5.5	27.85	-42.2	326.3	258.4	251.8	6.59	39.235		
2,000.0	1,996.6	1,940.8	1,914.2	3.9	6.0	28.16	-47.3	353.3	280.8	273.9	6.94	40.442		
2,100.0	2,096.3	2,038.2	2,007.4	4.1	6.5	28.44	-52.6	381.2	303.4	296.1	7.31	41.532		
2,200.0	2,196.0	2,135.6	2,100.6	4.3	7.0	28.68	-57.8	409.0	326.0	318.3	7.67	42.517		
2,300.0	2,295.7	2,233.0	2,193.8	4.5	7.5	28.88	-63.0	436.8	348.6	340.6	8.03	43.409		
2,400.0	2,395.4	2,330.4	2,287.0	4.7	8.1	29.06	-68.3	464.6	371.2	362.8	8.39	44.222		
2,500.0	2,495.2	2,427.8	2,380.2	5.0	8.6	29.22	-73.5	492.4	393.8	385.0	8.76	44.966		
2,600.0	2,594.9	2,525.2	2,473.4	5.2	9.1	29.37	-78.8	520.2	416.4	407.3	9.12	45.648		
2,700.0	2,694.6	2,622.6	2,566.6	5.4	9.7	29.50	-84.0	548.0	439.0	429.5	9.49	46.276		
2,800.0	2,794.3	2,720.0	2,659.8	5.6	10.2	29.61	-89.2	575.8	461.6	451.8	9.85	46.856		
2,900.0	2,894.0	2,817.5	2,753.0	5.8	10.7	29.72	-94.5	603.7	484.2	474.0	10.22	47.393		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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									
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	58.79	223.8	369.3	431.9						
100.0	100.0	92.0	92.0	0.1	0.2	58.79	223.7	369.2	431.7	431.4	0.31	1,394.336			
200.0	200.0	193.0	193.0	0.3	0.3	58.80	223.5	369.0	431.4	430.7	0.66	652.242			
300.0	300.0	294.1	294.1	0.5	0.5	58.81	223.1	368.5	430.8	429.8	1.01	425.210			
400.0	400.0	395.1	395.1	0.7	0.7	58.83	222.5	367.9	429.9	428.6	1.36	315.021			
500.0	500.0	496.1	496.1	0.8	0.9	58.86	221.8	367.1	428.9	427.2	1.72	249.848			
600.0	600.0	597.2	597.1	1.0	1.1	-17.54	220.9	366.0	426.7	424.7	2.05	208.426			
700.0	700.0	698.1	698.1	1.2	1.2	-17.63	219.8	364.8	422.7	420.3	2.40	176.463			
800.0	799.9	798.9	798.9	1.4	1.4	-17.78	218.6	363.5	416.7	414.0	2.74	151.922			
900.0	899.7	899.6	899.6	1.6	1.6	-18.02	217.2	361.9	408.9	405.8	3.09	132.287			
1,000.0	999.4	998.2	998.1	1.8	1.8	-18.45	216.7	359.8	399.7	396.2	3.44	116.275			
1,100.0	1,099.1	1,085.6	1,085.4	2.0	1.9	-19.25	219.2	357.5	392.0	388.2	3.77	104.002			
1,200.0	1,198.8	1,173.7	1,173.3	2.2	2.1	-20.40	225.3	356.5	387.7	383.6	4.11	94.295			
1,293.5	1,292.1	1,256.9	1,256.1	2.4	2.2	-21.79	233.8	356.2	386.4	382.0	4.44	87.016 CC			
1,300.0	1,298.5	1,262.7	1,261.8	2.4	2.2	-21.89	234.4	356.3	386.4	381.9	4.46	86.560 ES			
1,400.0	1,398.3	1,357.4	1,355.7	2.6	2.4	-23.73	246.7	356.6	387.5	382.6	4.85	79.932			
1,500.0	1,498.0	1,450.0	1,447.1	2.8	2.6	-25.89	261.7	356.5	390.7	385.5	5.25	74.450			
1,600.0	1,597.7	1,543.5	1,539.0	3.0	2.9	-28.29	279.0	356.2	396.0	390.4	5.67	69.858			
1,700.0	1,697.4	1,634.8	1,628.2	3.2	3.2	-30.92	298.3	354.9	403.3	397.1	6.11	65.986			
1,800.0	1,797.1	1,727.1	1,717.8	3.5	3.5	-33.82	320.5	352.8	413.0	406.4	6.57	62.832			
1,900.0	1,896.9	1,821.2	1,808.7	3.7	3.9	-36.82	344.4	350.0	424.6	417.6	7.05	60.258			
2,000.0	1,996.6	1,910.9	1,894.9	3.9	4.3	-39.73	369.1	346.9	438.9	431.3	7.51	58.415			
2,100.0	2,096.3	2,006.8	1,986.7	4.1	4.7	-42.78	396.5	343.1	455.0	447.0	8.00	56.893			
2,200.0	2,196.0	2,099.3	2,074.8	4.3	5.2	-45.83	424.1	337.2	472.4	463.9	8.48	55.699			
2,300.0	2,295.7	2,188.1	2,158.7	4.5	5.7	-48.80	452.6	330.2	492.6	483.6	8.94	55.100 SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	93.82	-14.5	216.8	217.5					
100.0	100.0	89.7	89.7	0.1	0.1	93.81	-14.4	217.1	217.6	217.3	0.28	770.539		
200.0	200.0	188.8	188.8	0.3	0.3	93.81	-14.5	217.9	218.4	217.8	0.63	348.148		
300.0	300.0	289.2	289.2	0.5	0.5	93.91	-14.9	218.8	219.3	218.4	0.98	224.315		
400.0	400.0	389.5	389.5	0.7	0.7	94.09	-15.7	219.5	220.1	218.8	1.33	165.715		
500.0	500.0	489.8	489.7	0.8	0.8	94.28	-16.5	220.1	220.7	219.0	1.68	131.529		
600.0	600.0	589.9	589.9	1.0	1.0	18.08	-17.0	220.6	220.4	218.4	2.03	108.847		
700.0	700.0	690.4	690.4	1.2	1.2	18.40	-17.4	221.0	218.3	216.0	2.38	91.927		
800.0	799.9	790.6	790.6	1.4	1.4	18.82	-17.6	221.1	214.4	211.6	2.72	78.682		
900.0	899.7	891.3	891.3	1.6	1.5	19.40	-17.6	221.0	208.5	205.4	3.07	67.817		
1,000.0	999.4	991.4	991.4	1.8	1.7	20.09	-17.5	220.6	201.1	197.6	3.43	58.683		
1,100.0	1,099.1	1,091.4	1,091.4	2.0	1.9	20.90	-17.6	220.0	193.5	189.7	3.78	51.190		
1,200.0	1,198.8	1,192.1	1,192.1	2.2	2.1	21.74	-17.4	219.1	185.6	181.4	4.14	44.872		
1,300.0	1,298.5	1,291.6	1,291.6	2.4	2.2	22.55	-17.0	218.0	177.4	172.9	4.49	39.520		
1,400.0	1,398.3	1,391.4	1,391.4	2.6	2.4	23.34	-16.3	217.0	169.4	164.5	4.85	34.958		
1,500.0	1,498.0	1,491.8	1,491.8	2.8	2.6	24.18	-15.4	215.6	161.0	155.8	5.20	30.940		
1,600.0	1,597.7	1,591.8	1,591.8	3.0	2.8	25.18	-14.7	213.8	152.3	146.7	5.56	27.377		
1,700.0	1,697.4	1,690.9	1,690.9	3.2	2.9	26.33	-14.0	212.0	143.6	137.6	5.92	24.243		
1,800.0	1,797.1	1,790.2	1,790.1	3.5	3.1	27.37	-12.8	210.7	135.3	129.1	6.28	21.542		
1,900.0	1,896.9	1,890.0	1,889.9	3.7	3.3	28.35	-11.2	209.5	127.1	120.4	6.65	19.122		
2,000.0	1,996.6	1,989.2	1,989.0	3.9	3.5	29.41	-9.5	208.4	119.0	112.0	7.01	16.970		
2,100.0	2,096.3	2,088.3	2,088.1	4.1	3.6	30.97	-8.6	207.6	111.4	104.0	7.38	15.098		
2,200.0	2,196.0	2,187.2	2,187.0	4.3	3.8	33.24	-8.8	207.2	104.8	97.0	7.76	13.509		
2,300.0	2,295.7	2,287.1	2,286.9	4.5	4.0	36.02	-9.4	206.9	98.5	90.4	8.14	12.100		
2,400.0	2,395.4	2,386.4	2,386.2	4.7	4.1	39.21	-10.0	206.5	92.4	83.9	8.54	10.826		
2,500.0	2,495.2	2,486.6	2,486.4	5.0	4.3	43.41	-11.5	205.9	86.9	78.0	8.95	9.710		
2,600.0	2,594.9	2,588.6	2,588.4	5.2	4.5	49.62	-13.6	202.7	80.2	70.8	9.40	8.528		
2,700.0	2,694.6	2,686.8	2,686.3	5.4	4.7	58.52	-16.8	197.2	73.6	63.7	9.88	7.447		
2,800.0	2,794.3	2,785.2	2,784.5	5.6	4.9	69.81	-21.6	191.5	70.4	60.0	10.39	6.773		
2,831.6	2,825.8	2,816.2	2,815.3	5.7	4.9	73.85	-23.5	189.4	70.1	59.6	10.55	6.650 CC, ES		
2,900.0	2,894.0	2,883.6	2,882.4	5.8	5.1	83.31	-28.2	184.1	71.2	60.4	10.87	6.551 SF		
3,000.0	2,993.7	2,981.9	2,980.1	6.0	5.3	96.47	-34.7	176.0	75.8	64.5	11.28	6.720		
3,100.0	3,093.5	3,077.8	3,075.2	6.3	5.5	108.62	-42.8	166.0	85.9	74.3	11.61	7.399		
3,200.0	3,193.2	3,174.3	3,170.3	6.5	5.7	119.15	-52.8	153.6	101.7	89.8	11.87	8.566		
3,300.0	3,292.9	3,273.1	3,267.8	6.7	5.9	126.80	-62.6	141.2	119.5	107.3	12.13	9.852		
3,400.0	3,392.6	3,371.1	3,364.7	6.9	6.2	132.84	-71.0	128.4	137.8	125.4	12.39	11.122		
3,500.0	3,492.3	3,462.2	3,454.2	7.1	6.4	137.74	-79.3	114.3	159.1	146.5	12.65	12.576		
3,600.0	3,592.0	3,558.5	3,548.6	7.4	6.7	141.85	-89.1	97.9	183.2	170.3	12.93	14.172		
3,700.0	3,691.8	3,650.6	3,638.6	7.6	7.0	144.99	-99.2	81.3	209.1	195.9	13.21	15.831		
3,800.0	3,791.5	3,743.3	3,729.0	7.8	7.3	147.07	-111.3	64.8	237.0	223.5	13.51	17.543		
3,900.0	3,891.2	3,835.2	3,818.3	8.0	7.6	148.48	-125.1	48.1	266.6	252.8	13.82	19.290		
4,000.0	3,990.9	3,929.0	3,909.3	8.2	8.0	149.41	-140.4	31.4	296.9	282.8	14.14	20.991		
4,100.0	4,090.6	4,022.9	4,000.3	8.4	8.3	150.33	-155.5	13.6	328.0	313.6	14.47	22.673		
4,200.0	4,190.3	4,120.7	4,095.2	8.7	8.7	151.29	-170.2	-5.2	358.7	343.9	14.80	24.243		
4,300.0	4,290.1	4,223.1	4,194.8	8.9	9.1	152.10	-185.0	-24.1	388.5	373.4	15.14	25.668		
4,400.0	4,389.8	4,326.0	4,295.3	9.1	9.5	152.72	-198.9	-41.0	416.2	400.8	15.48	26.890		
4,500.0	4,489.5	4,429.7	4,396.9	9.3	9.8	153.20	-212.1	-56.5	442.4	426.6	15.83	27.955		
4,600.0	4,589.2	4,524.8	4,490.3	9.5	10.2	153.48	-224.6	-69.6	468.0	451.8	16.17	28.951		
4,700.0	4,688.9	4,621.8	4,585.4	9.7	10.5	153.72	-237.7	-83.4	494.1	477.6	16.51	29.932		

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							Warning			
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	60.99	211.0	380.5	435.2								
100.0	100.0	90.3	90.3	0.1	0.1	61.04	210.7	380.7	435.1	434.8	0.29	1,508.947					
140.9	140.9	131.3	131.3	0.2	0.2	61.09	210.3	380.8	435.0	434.6	0.42	1,027.869	CC, ES				
200.0	200.0	183.8	183.8	0.3	0.3	61.15	210.1	381.3	435.4	434.8	0.62	703.210					
300.0	300.0	271.0	271.0	0.5	0.5	61.13	211.4	383.4	438.2	437.3	0.95	460.340					
400.0	400.0	361.3	361.1	0.7	0.6	61.07	214.2	387.6	443.8	442.5	1.30	340.384					
500.0	500.0	449.1	448.6	0.8	0.8	61.06	217.6	393.4	451.5	449.8	1.67	270.318					
600.0	600.0	538.2	537.3	1.0	1.0	-15.30	221.8	401.7	461.1	459.1	1.93	238.281					
700.0	700.0	628.5	626.9	1.2	1.3	-15.26	226.6	411.9	471.0	468.7	2.27	207.682					
800.0	799.9	716.1	713.5	1.4	1.6	-15.20	231.6	423.6	481.3	478.7	2.60	185.358					
900.0	899.7	806.8	802.8	1.6	1.9	-15.04	236.7	438.3	492.4	489.4	2.93	167.817	SF				

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		
3,000.0	2,993.7	3,264.5	3,131.1	6.0	18.3	-54.43	452.2	345.4	482.6	467.6	15.01	32.154		
3,100.0	3,093.5	3,353.6	3,212.9	6.3	18.9	-57.20	428.0	319.8	442.2	426.0	16.18	27.331		
3,200.0	3,193.2	3,442.6	3,294.7	6.5	19.6	-60.48	403.9	294.3	402.9	385.3	17.53	22.979		
3,300.0	3,292.9	3,531.6	3,376.5	6.7	20.2	-64.41	379.7	268.8	365.0	345.9	19.10	19.109		
3,400.0	3,392.6	3,620.7	3,458.3	6.9	20.9	-69.13	355.5	243.2	329.1	308.1	20.91	15.734		
3,500.0	3,492.3	3,709.7	3,540.1	7.1	21.5	-74.85	331.4	217.7	295.8	272.8	22.99	12.869		
3,600.0	3,592.0	3,798.7	3,621.9	7.4	22.2	-81.74	307.2	192.1	266.2	240.9	25.28	10.531		
3,700.0	3,691.8	3,887.8	3,703.7	7.6	22.8	-89.95	283.0	166.6	241.6	213.9	27.67	8.732		
3,800.0	3,791.5	3,976.8	3,785.5	7.8	23.5	-99.45	258.8	141.1	223.6	193.7	29.91	7.475		
3,900.0	3,891.2	4,065.8	3,867.3	8.0	24.2	-109.95	234.7	115.5	214.0	182.3	31.69	6.754		
3,951.5	3,942.5	4,111.7	3,909.4	8.1	24.5	-115.55	222.2	102.4	212.7	180.4	32.31	6.583 CC, ES		
4,000.0	3,990.9	4,154.9	3,949.1	8.2	24.8	-120.83	210.5	90.0	213.9	181.2	32.70	6.541 SF		
4,100.0	4,090.6	4,243.9	4,030.9	8.4	25.5	-131.35	186.3	64.5	223.2	190.3	32.86	6.793		
4,200.0	4,190.3	4,333.0	4,112.7	8.7	26.1	-140.89	162.2	38.9	240.9	208.6	32.36	7.446		
4,300.0	4,290.1	4,422.0	4,194.5	8.9	26.8	-149.14	138.0	13.4	265.4	233.9	31.47	8.431		
4,400.0	4,389.8	4,511.0	4,276.3	9.1	27.4	-156.07	113.8	-12.2	294.9	264.4	30.46	9.680		
4,500.0	4,489.5	4,600.1	4,358.1	9.3	28.1	-161.82	89.7	-37.7	328.0	298.6	29.48	11.129		
4,600.0	4,589.2	4,689.1	4,439.9	9.5	28.7	-166.57	65.5	-63.2	363.9	335.3	28.60	12.725		
4,700.0	4,688.9	4,778.1	4,521.7	9.7	29.4	-170.52	41.3	-88.8	401.7	373.9	27.85	14.423		
4,800.0	4,788.6	4,867.2	4,603.5	10.0	30.0	-173.82	17.2	-114.3	441.0	413.7	27.24	16.189		
4,900.0	4,888.4	4,956.2	4,685.3	10.2	30.7	-176.60	-7.0	-139.8	481.4	454.6	26.75	17.995		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 6-8-32 (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		
7,800.0	7,654.8	7,808.3	7,614.8	16.8	29.6	-65.57	-556.3	865.2	497.7	456.9	40.87	12.178		
7,900.0	7,690.2	7,843.8	7,650.2	17.4	29.7	-78.47	-556.3	865.2	435.7	391.8	43.84	9.939		
8,000.0	7,709.0	7,862.6	7,669.0	18.2	29.7	-87.37	-556.3	865.2	385.6	340.1	45.45	8.484		
8,100.0	7,712.0	7,865.6	7,672.0	19.1	29.7	-90.00	-556.3	865.2	356.9	310.4	46.50	7.677		
8,155.8	7,712.0	7,865.6	7,672.0	19.6	29.7	-90.00	-556.3	865.2	352.5	305.4	47.14	7.479 CC, ES		
8,200.0	7,712.0	7,865.6	7,672.0	20.1	29.7	-90.00	-556.3	865.2	355.3	307.7	47.64	7.457 SF		
8,300.0	7,712.0	7,865.6	7,672.0	21.2	29.7	-90.00	-556.3	865.2	380.9	332.0	48.89	7.792		
8,400.0	7,712.0	7,865.6	7,672.0	22.4	29.7	-90.00	-556.3	865.2	428.9	378.7	50.20	8.543		
8,500.0	7,712.0	7,865.6	7,672.0	23.7	29.7	-90.00	-556.3	865.2	492.7	441.1	51.58	9.553		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	63.82	194.3	395.0	440.3					
100.0	100.0	90.0	90.0	0.1	0.1	63.82	194.3	395.0	440.2	439.9	0.28	1,561.800		
200.0	200.0	190.0	190.0	0.3	0.3	63.82	194.3	395.0	440.2	439.6	0.63	700.641		
300.0	300.0	290.0	290.0	0.5	0.5	63.82	194.3	395.0	440.2	439.2	0.98	450.412		
400.0	400.0	390.0	390.0	0.7	0.7	63.82	194.3	395.0	440.2	438.9	1.33	331.883		
500.0	500.0	490.0	490.0	0.8	0.8	63.82	194.3	395.0	440.2	438.6	1.68	262.740		
600.0	600.0	584.6	584.6	1.0	1.0	-12.46	193.5	396.0	439.9	437.9	2.02	218.204		
700.0	700.0	678.4	678.3	1.2	1.2	-12.02	190.7	399.4	439.3	436.9	2.36	186.006		
800.0	799.9	772.0	771.6	1.4	1.4	-11.26	186.1	405.1	438.4	435.7	2.72	161.150		
900.0	899.7	865.2	864.3	1.6	1.6	-10.19	179.6	413.1	437.4	434.3	3.10	141.136		
991.0	990.4	949.6	947.8	1.8	1.8	-8.93	172.0	422.3	437.0	433.5	3.47	126.073		
1,000.0	999.4	958.0	956.0	1.8	1.8	-8.80	171.2	423.4	436.8	433.3	3.50	124.676 CC, ES		
1,100.0	1,099.1	1,050.0	1,046.6	2.0	2.1	-7.08	161.0	435.8	438.0	434.1	3.93	111.337		
1,200.0	1,198.8	1,141.6	1,136.2	2.2	2.4	-5.06	149.1	450.5	441.4	437.0	4.38	100.739		
1,300.0	1,298.5	1,239.9	1,232.1	2.4	2.8	-2.79	135.4	467.3	446.2	441.3	4.86	91.878		
1,400.0	1,398.3	1,338.1	1,328.0	2.6	3.2	-0.56	121.7	484.0	451.7	446.4	5.33	84.809		
1,500.0	1,498.0	1,436.4	1,423.8	2.8	3.6	1.60	108.0	500.8	457.9	452.1	5.79	79.104		
1,600.0	1,597.7	1,534.7	1,519.7	3.0	4.0	3.71	94.4	517.6	464.7	458.5	6.24	74.459		
1,700.0	1,697.4	1,632.9	1,615.5	3.2	4.4	5.76	80.7	534.4	472.2	465.5	6.68	70.646		
1,800.0	1,797.1	1,731.2	1,711.4	3.5	4.8	7.74	67.0	551.1	480.3	473.2	7.12	67.490		
1,900.0	1,896.9	1,829.5	1,807.3	3.7	5.2	9.66	53.4	567.9	489.0	481.4	7.54	64.863		
2,000.0	1,996.6	1,927.8	1,903.1	3.9	5.6	11.51	39.7	584.7	498.1	490.2	7.95	62.662 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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									
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	63.82	194.3	395.0	440.3						
100.0	100.0	86.0	86.0	0.1	0.1	63.82	194.4	395.5	440.7	440.4	0.27	1,615.484			
200.0	200.0	181.5	181.4	0.3	0.3	63.87	194.6	396.7	441.9	441.3	0.62	717.175			
300.0	300.0	276.9	276.8	0.5	0.5	64.18	193.4	399.8	444.3	443.3	0.97	460.017			
400.0	400.0	366.7	366.4	0.7	0.7	64.79	190.8	405.1	448.4	447.1	1.32	339.677			
500.0	500.0	459.1	458.3	0.8	0.9	65.68	186.8	413.4	454.7	453.0	1.70	267.890			
600.0	600.0	551.8	550.3	1.0	1.1	-9.54	181.0	423.5	461.4	459.3	2.08	221.932			
700.0	700.0	639.9	637.3	1.2	1.4	-8.23	174.2	435.7	468.8	466.3	2.49	188.312			
800.0	799.9	727.8	723.6	1.4	1.8	-6.68	165.9	450.6	477.0	474.1	2.92	163.579			
900.0	899.7	814.5	808.2	1.6	2.1	-5.13	157.7	467.5	486.3	483.0	3.34	145.579			
1,000.0	999.4	904.3	895.5	1.8	2.5	-3.58	149.5	486.8	496.9	493.1	3.78	131.616 SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4D-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4D-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5004.0ft (Original Well Elev)

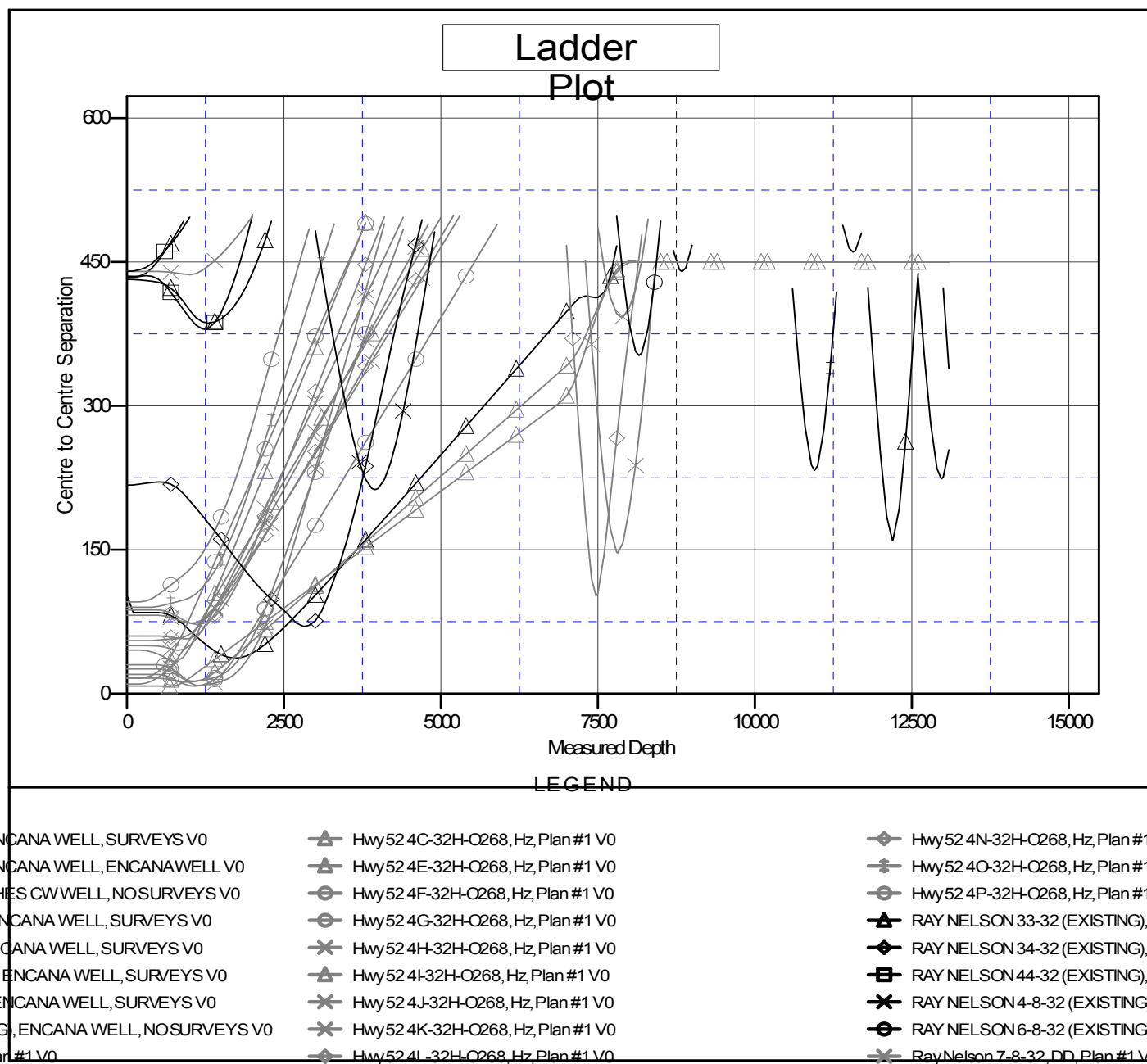
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Hwy 52 4D-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