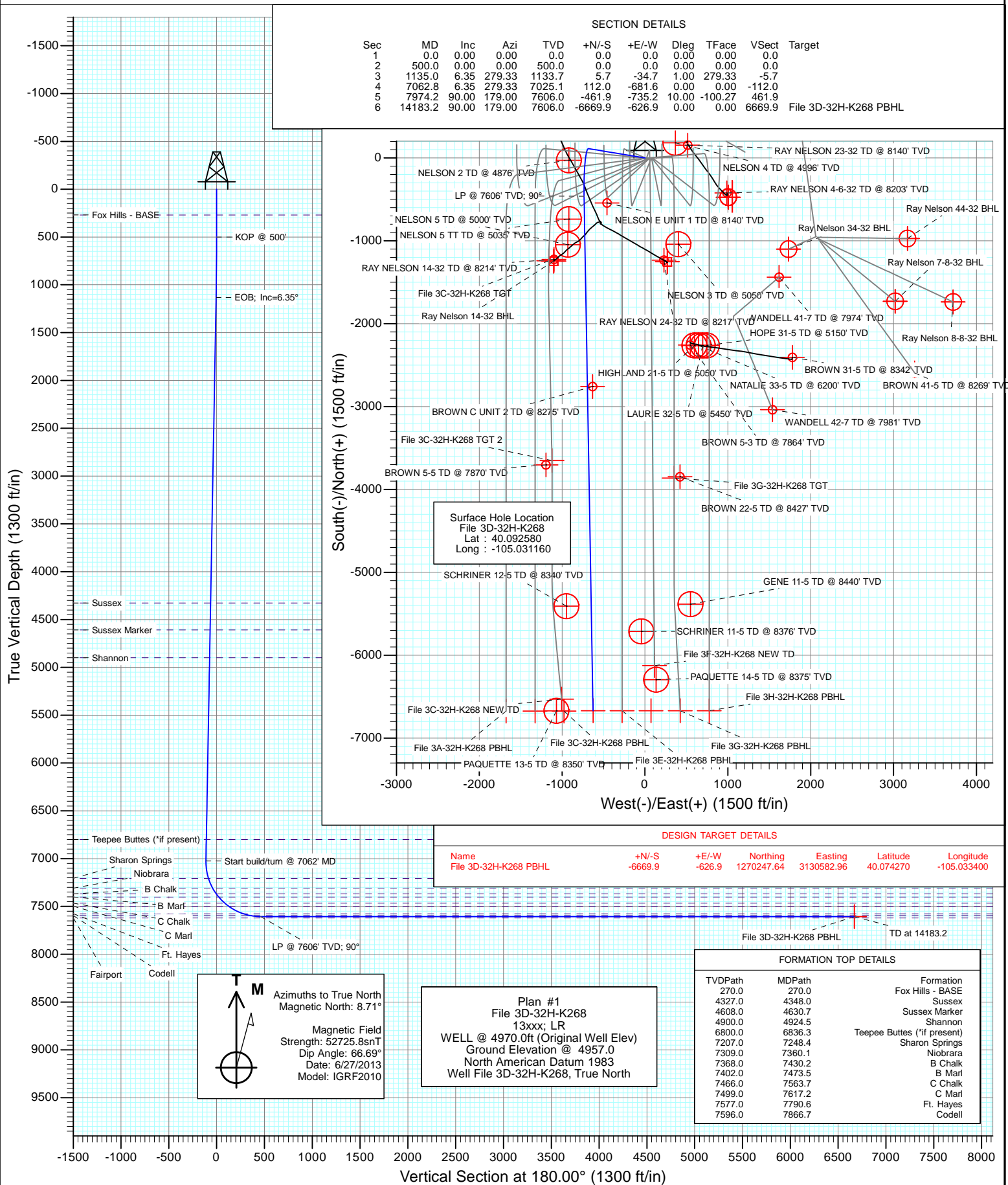




Project: DJ Wattenberg
Site: S32-T2N-R68W (File)
Well: File 3D-32H-K268
Wellbore: Hz
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3D-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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

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

Well	File 3D-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,920.77 ft	Latitude:	40.092580
	+E/-W	0.0 ft	Easting:	3,131,174.55 ft	Longitude:	-105.031160
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,957.0 ft

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

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,135.0	6.35	279.33	1,133.7	5.7	-34.7	1.00	1.00	0.00	279.33	
7,062.8	6.35	279.33	7,025.1	112.0	-681.6	0.00	0.00	0.00	0.00	
7,974.2	90.00	179.00	7,606.0	-461.9	-735.2	10.00	9.18	-11.01	-100.27	
14,183.2	90.00	179.00	7,606.0	-6,669.9	-626.9	0.00	0.00	0.00	0.00	File 3D-32H-K268 PB

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3D-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
270.0	0.00	0.00	270.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	279.33	600.0	0.1	-0.9	-0.1	1.00	1.00	
700.0	2.00	279.33	700.0	0.6	-3.4	-0.6	1.00	1.00	
800.0	3.00	279.33	799.9	1.3	-7.7	-1.3	1.00	1.00	
900.0	4.00	279.33	899.7	2.3	-13.8	-2.3	1.00	1.00	
1,000.0	5.00	279.33	999.4	3.5	-21.5	-3.5	1.00	1.00	
1,100.0	6.00	279.33	1,098.9	5.1	-31.0	-5.1	1.00	1.00	
1,135.0	6.35	279.33	1,133.7	5.7	-34.7	-5.7	1.00	1.00	EOB; Inc=6.35°
1,200.0	6.35	279.33	1,198.3	6.9	-41.8	-6.9	0.00	0.00	
1,300.0	6.35	279.33	1,297.7	8.7	-52.7	-8.7	0.00	0.00	
1,400.0	6.35	279.33	1,397.1	10.5	-63.6	-10.5	0.00	0.00	
1,500.0	6.35	279.33	1,496.5	12.2	-74.5	-12.2	0.00	0.00	
1,600.0	6.35	279.33	1,595.8	14.0	-85.4	-14.0	0.00	0.00	
1,700.0	6.35	279.33	1,695.2	15.8	-96.3	-15.8	0.00	0.00	
1,800.0	6.35	279.33	1,794.6	17.6	-107.3	-17.6	0.00	0.00	
1,900.0	6.35	279.33	1,894.0	19.4	-118.2	-19.4	0.00	0.00	
2,000.0	6.35	279.33	1,993.4	21.2	-129.1	-21.2	0.00	0.00	
2,100.0	6.35	279.33	2,092.8	23.0	-140.0	-23.0	0.00	0.00	
2,200.0	6.35	279.33	2,192.2	24.8	-150.9	-24.8	0.00	0.00	
2,300.0	6.35	279.33	2,291.6	26.6	-161.8	-26.6	0.00	0.00	
2,400.0	6.35	279.33	2,390.9	28.4	-172.7	-28.4	0.00	0.00	
2,500.0	6.35	279.33	2,490.3	30.2	-183.7	-30.2	0.00	0.00	
2,600.0	6.35	279.33	2,589.7	32.0	-194.6	-32.0	0.00	0.00	
2,700.0	6.35	279.33	2,689.1	33.8	-205.5	-33.8	0.00	0.00	
2,800.0	6.35	279.33	2,788.5	35.6	-216.4	-35.6	0.00	0.00	
2,900.0	6.35	279.33	2,887.9	37.4	-227.3	-37.4	0.00	0.00	
3,000.0	6.35	279.33	2,987.3	39.1	-238.2	-39.1	0.00	0.00	
3,100.0	6.35	279.33	3,086.6	40.9	-249.1	-40.9	0.00	0.00	
3,200.0	6.35	279.33	3,186.0	42.7	-260.1	-42.7	0.00	0.00	
3,300.0	6.35	279.33	3,285.4	44.5	-271.0	-44.5	0.00	0.00	
3,400.0	6.35	279.33	3,384.8	46.3	-281.9	-46.3	0.00	0.00	
3,500.0	6.35	279.33	3,484.2	48.1	-292.8	-48.1	0.00	0.00	
3,600.0	6.35	279.33	3,583.6	49.9	-303.7	-49.9	0.00	0.00	
3,700.0	6.35	279.33	3,683.0	51.7	-314.6	-51.7	0.00	0.00	
3,800.0	6.35	279.33	3,782.4	53.5	-325.5	-53.5	0.00	0.00	
3,900.0	6.35	279.33	3,881.7	55.3	-336.5	-55.3	0.00	0.00	
4,000.0	6.35	279.33	3,981.1	57.1	-347.4	-57.1	0.00	0.00	
4,100.0	6.35	279.33	4,080.5	58.9	-358.3	-58.9	0.00	0.00	
4,200.0	6.35	279.33	4,179.9	60.7	-369.2	-60.7	0.00	0.00	
4,300.0	6.35	279.33	4,279.3	62.5	-380.1	-62.5	0.00	0.00	
4,348.0	6.35	279.33	4,327.0	63.3	-385.3	-63.3	0.00	0.00	Sussex
4,400.0	6.35	279.33	4,378.7	64.3	-391.0	-64.3	0.00	0.00	
4,500.0	6.35	279.33	4,478.1	66.1	-401.9	-66.1	0.00	0.00	
4,600.0	6.35	279.33	4,577.4	67.8	-412.9	-67.8	0.00	0.00	
4,630.7	6.35	279.33	4,608.0	68.4	-416.2	-68.4	0.00	0.00	Sussex Marker
4,700.0	6.35	279.33	4,676.8	69.6	-423.8	-69.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3D-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	6.35	279.33	4,776.2	71.4	-434.7	-71.4	0.00	0.00	
4,900.0	6.35	279.33	4,875.6	73.2	-445.6	-73.2	0.00	0.00	
4,924.5	6.35	279.33	4,900.0	73.7	-448.3	-73.7	0.00	0.00	Shannon
5,000.0	6.35	279.33	4,975.0	75.0	-456.5	-75.0	0.00	0.00	
5,100.0	6.35	279.33	5,074.4	76.8	-467.4	-76.8	0.00	0.00	
5,200.0	6.35	279.33	5,173.8	78.6	-478.3	-78.6	0.00	0.00	
5,300.0	6.35	279.33	5,273.1	80.4	-489.2	-80.4	0.00	0.00	
5,400.0	6.35	279.33	5,372.5	82.2	-500.2	-82.2	0.00	0.00	
5,500.0	6.35	279.33	5,471.9	84.0	-511.1	-84.0	0.00	0.00	
5,600.0	6.35	279.33	5,571.3	85.8	-522.0	-85.8	0.00	0.00	
5,700.0	6.35	279.33	5,670.7	87.6	-532.9	-87.6	0.00	0.00	
5,800.0	6.35	279.33	5,770.1	89.4	-543.8	-89.4	0.00	0.00	
5,900.0	6.35	279.33	5,869.5	91.2	-554.7	-91.2	0.00	0.00	
6,000.0	6.35	279.33	5,968.9	93.0	-565.6	-93.0	0.00	0.00	
6,100.0	6.35	279.33	6,068.2	94.7	-576.6	-94.7	0.00	0.00	
6,200.0	6.35	279.33	6,167.6	96.5	-587.5	-96.5	0.00	0.00	
6,300.0	6.35	279.33	6,267.0	98.3	-598.4	-98.3	0.00	0.00	
6,400.0	6.35	279.33	6,366.4	100.1	-609.3	-100.1	0.00	0.00	
6,500.0	6.35	279.33	6,465.8	101.9	-620.2	-101.9	0.00	0.00	
6,600.0	6.35	279.33	6,565.2	103.7	-631.1	-103.7	0.00	0.00	
6,700.0	6.35	279.33	6,664.6	105.5	-642.0	-105.5	0.00	0.00	
6,800.0	6.35	279.33	6,763.9	107.3	-653.0	-107.3	0.00	0.00	
6,836.3	6.35	279.33	6,800.0	108.0	-656.9	-108.0	0.00	0.00	Teepee Buttes (*if present)
6,900.0	6.35	279.33	6,863.3	109.1	-663.9	-109.1	0.00	0.00	
7,000.0	6.35	279.33	6,962.7	110.9	-674.8	-110.9	0.00	0.00	
7,062.8	6.35	279.33	7,025.1	112.0	-681.6	-112.0	0.00	0.00	Start build/turn @ 7062' MD
7,100.0	6.76	246.49	7,062.1	111.5	-685.7	-111.5	10.00	1.10	
7,200.0	14.03	204.99	7,160.5	98.1	-696.2	-98.1	10.00	7.27	
7,248.4	18.48	198.12	7,207.0	85.5	-701.1	-85.5	10.00	9.19	Sharon Springs
7,300.0	23.39	193.66	7,255.2	67.8	-706.1	-67.8	10.00	9.52	
7,360.1	29.21	190.29	7,309.0	41.7	-711.5	-41.7	10.00	9.69	Niobrara
7,400.0	33.11	188.66	7,343.2	21.4	-714.9	-21.4	10.00	9.78	
7,430.2	36.07	187.64	7,368.0	4.4	-717.3	-4.4	10.00	9.81	B Chalk
7,473.5	40.33	186.41	7,402.0	-22.2	-720.6	22.2	10.00	9.84	B Marl
7,500.0	42.95	185.75	7,421.8	-39.7	-722.4	39.7	10.00	9.86	
7,563.7	49.25	184.41	7,466.0	-85.4	-726.5	85.4	10.00	9.88	C Chalk
7,600.0	52.84	183.76	7,488.8	-113.5	-728.5	113.5	10.00	9.90	
7,617.2	54.55	183.47	7,499.0	-127.4	-729.3	127.4	10.00	9.91	C Marl
7,700.0	62.76	182.23	7,542.0	-197.9	-732.8	197.9	10.00	9.92	
7,790.6	71.75	181.07	7,577.0	-281.3	-735.2	281.3	10.00	9.93	Ft. Hayes
7,800.0	72.69	180.96	7,579.9	-290.3	-735.4	290.3	10.00	9.93	
7,866.7	79.31	180.18	7,596.0	-355.0	-736.0	355.0	10.00	9.94	Codell
7,900.0	82.63	179.81	7,601.2	-387.9	-736.0	387.9	10.00	9.94	
7,974.2	90.00	179.00	7,606.0	-461.9	-735.2	461.9	10.00	9.94	LP @ 7606' TVD; 90°
8,000.0	90.00	179.00	7,606.0	-487.7	-734.8	487.7	0.00	0.00	
8,100.0	90.00	179.00	7,606.0	-587.7	-733.0	587.7	0.00	0.00	
8,200.0	90.00	179.00	7,606.0	-687.6	-731.3	687.6	0.00	0.00	
8,300.0	90.00	179.00	7,606.0	-787.6	-729.5	787.6	0.00	0.00	
8,400.0	90.00	179.00	7,606.0	-887.6	-727.8	887.6	0.00	0.00	
8,500.0	90.00	179.00	7,606.0	-987.6	-726.0	987.6	0.00	0.00	
8,600.0	90.00	179.00	7,606.0	-1,087.6	-724.3	1,087.6	0.00	0.00	
8,700.0	90.00	179.00	7,606.0	-1,187.6	-722.6	1,187.6	0.00	0.00	

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	179.00	7,606.0	-1,287.5	-720.8	1,287.5	0.00	0.00	
8,900.0	90.00	179.00	7,606.0	-1,387.5	-719.1	1,387.5	0.00	0.00	
9,000.0	90.00	179.00	7,606.0	-1,487.5	-717.3	1,487.5	0.00	0.00	
9,100.0	90.00	179.00	7,606.0	-1,587.5	-715.6	1,587.5	0.00	0.00	
9,200.0	90.00	179.00	7,606.0	-1,687.5	-713.8	1,687.5	0.00	0.00	
9,300.0	90.00	179.00	7,606.0	-1,787.5	-712.1	1,787.5	0.00	0.00	
9,400.0	90.00	179.00	7,606.0	-1,887.5	-710.3	1,887.5	0.00	0.00	
9,500.0	90.00	179.00	7,606.0	-1,987.4	-708.6	1,987.4	0.00	0.00	
9,600.0	90.00	179.00	7,606.0	-2,087.4	-706.8	2,087.4	0.00	0.00	
9,700.0	90.00	179.00	7,606.0	-2,187.4	-705.1	2,187.4	0.00	0.00	
9,800.0	90.00	179.00	7,606.0	-2,287.4	-703.4	2,287.4	0.00	0.00	
9,900.0	90.00	179.00	7,606.0	-2,387.4	-701.6	2,387.4	0.00	0.00	
10,000.0	90.00	179.00	7,606.0	-2,487.4	-699.9	2,487.4	0.00	0.00	
10,100.0	90.00	179.00	7,606.0	-2,587.3	-698.1	2,587.3	0.00	0.00	
10,200.0	90.00	179.00	7,606.0	-2,687.3	-696.4	2,687.3	0.00	0.00	
10,300.0	90.00	179.00	7,606.0	-2,787.3	-694.6	2,787.3	0.00	0.00	
10,400.0	90.00	179.00	7,606.0	-2,887.3	-692.9	2,887.3	0.00	0.00	
10,500.0	90.00	179.00	7,606.0	-2,987.3	-691.1	2,987.3	0.00	0.00	
10,600.0	90.00	179.00	7,606.0	-3,087.3	-689.4	3,087.3	0.00	0.00	
10,700.0	90.00	179.00	7,606.0	-3,187.3	-687.7	3,187.3	0.00	0.00	
10,800.0	90.00	179.00	7,606.0	-3,287.2	-685.9	3,287.2	0.00	0.00	
10,900.0	90.00	179.00	7,606.0	-3,387.2	-684.2	3,387.2	0.00	0.00	
11,000.0	90.00	179.00	7,606.0	-3,487.2	-682.4	3,487.2	0.00	0.00	
11,100.0	90.00	179.00	7,606.0	-3,587.2	-680.7	3,587.2	0.00	0.00	
11,200.0	90.00	179.00	7,606.0	-3,687.2	-678.9	3,687.2	0.00	0.00	
11,300.0	90.00	179.00	7,606.0	-3,787.2	-677.2	3,787.2	0.00	0.00	
11,400.0	90.00	179.00	7,606.0	-3,887.2	-675.4	3,887.2	0.00	0.00	
11,500.0	90.00	179.00	7,606.0	-3,987.1	-673.7	3,987.1	0.00	0.00	
11,600.0	90.00	179.00	7,606.0	-4,087.1	-671.9	4,087.1	0.00	0.00	
11,700.0	90.00	179.00	7,606.0	-4,187.1	-670.2	4,187.1	0.00	0.00	
11,800.0	90.00	179.00	7,606.0	-4,287.1	-668.5	4,287.1	0.00	0.00	
11,900.0	90.00	179.00	7,606.0	-4,387.1	-666.7	4,387.1	0.00	0.00	
12,000.0	90.00	179.00	7,606.0	-4,487.1	-665.0	4,487.1	0.00	0.00	
12,100.0	90.00	179.00	7,606.0	-4,587.0	-663.2	4,587.0	0.00	0.00	
12,200.0	90.00	179.00	7,606.0	-4,687.0	-661.5	4,687.0	0.00	0.00	
12,300.0	90.00	179.00	7,606.0	-4,787.0	-659.7	4,787.0	0.00	0.00	
12,400.0	90.00	179.00	7,606.0	-4,887.0	-658.0	4,887.0	0.00	0.00	
12,500.0	90.00	179.00	7,606.0	-4,987.0	-656.2	4,987.0	0.00	0.00	
12,600.0	90.00	179.00	7,606.0	-5,087.0	-654.5	5,087.0	0.00	0.00	
12,700.0	90.00	179.00	7,606.0	-5,187.0	-652.7	5,187.0	0.00	0.00	
12,800.0	90.00	179.00	7,606.0	-5,286.9	-651.0	5,286.9	0.00	0.00	
12,900.0	90.00	179.00	7,606.0	-5,386.9	-649.3	5,386.9	0.00	0.00	
13,000.0	90.00	179.00	7,606.0	-5,486.9	-647.5	5,486.9	0.00	0.00	
13,100.0	90.00	179.00	7,606.0	-5,586.9	-645.8	5,586.9	0.00	0.00	
13,200.0	90.00	179.00	7,606.0	-5,686.9	-644.0	5,686.9	0.00	0.00	
13,300.0	90.00	179.00	7,606.0	-5,786.9	-642.3	5,786.9	0.00	0.00	
13,400.0	90.00	179.00	7,606.0	-5,886.8	-640.5	5,886.8	0.00	0.00	
13,500.0	90.00	179.00	7,606.0	-5,986.8	-638.8	5,986.8	0.00	0.00	
13,600.0	90.00	179.00	7,606.0	-6,086.8	-637.0	6,086.8	0.00	0.00	
13,700.0	90.00	179.00	7,606.0	-6,186.8	-635.3	6,186.8	0.00	0.00	
13,800.0	90.00	179.00	7,606.0	-6,286.8	-633.5	6,286.8	0.00	0.00	
13,900.0	90.00	179.00	7,606.0	-6,386.8	-631.8	6,386.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3D-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,000.0	90.00	179.00	7,606.0	-6,486.8	-630.1	6,486.8	0.00	0.00	
14,100.0	90.00	179.00	7,606.0	-6,586.7	-628.3	6,586.7	0.00	0.00	
14,183.2	90.00	179.00	7,606.0	-6,669.9	-626.9	6,669.9	0.00	0.00	TD at 14183.2

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
File 3D-32H-K268 PBHL - plan hits target center - Point	0.00	0.00	7,606.0	-6,669.9	-626.9	1,270,247.64	3,130,582.96	40.074270	-105.033400

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
270.0	270.0	Fox Hills - BASE			
4,348.0	4,327.0	Sussex			
4,630.7	4,608.0	Sussex Marker			
4,924.5	4,900.0	Shannon			
6,836.3	6,800.0	Teepee Buttes (*if present)			
7,248.4	7,207.0	Sharon Springs			
7,360.1	7,309.0	Niobrara			
7,430.2	7,368.0	B Chalk			
7,473.5	7,402.0	B Marl			
7,563.7	7,466.0	C Chalk			
7,617.2	7,499.0	C Marl			
7,790.6	7,577.0	Ft. Hayes			
7,866.7	7,596.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
1,135.0	1,133.7	5.7	-34.7	EOB; Inc=6.35°
7,062.8	7,025.1	112.0	-681.6	Start build/turn @ 7062' MD
7,974.2	7,606.0	-461.9	-735.2	LP @ 7606' TVD; 90°
14,183.2	7,606.0	-6,669.9	-626.9	TD at 14183.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3D-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	6/28/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,183.2	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - Plan #2						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S	10,272.1	7,636.0	63.1	-1.8	0.972	Level 1, CC, ES, SF
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3A-32H-K268 - Hz - Plan #1	200.0	200.0	17.2	16.5	26.314	CC, ES
File 3A-32H-K268 - Hz - Plan #1	500.0	498.8	25.0	23.3	14.556	SF
File 3B-32H-K268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.171	CC, ES
File 3B-32H-K268 - Hz - Plan #1	500.0	499.5	14.7	13.0	8.606	SF
File 3C-32H-K268 - Hz - Plan #1	400.0	400.0	6.7	5.3	4.943	CC, ES
File 3C-32H-K268 - Hz - Plan #1	14,036.9	13,499.5	440.5	239.5	2.191	SF
File 3E-32H-K268 - Hz - Plan #1	500.0	501.0	14.5	12.8	8.495	CC, ES
File 3E-32H-K268 - Hz - Plan #1	14,183.2	13,918.4	418.1	217.2	2.081	SF
File 3F-32H-K268 - Hz - Plan #1	500.0	501.0	19.6	17.9	11.509	CC, ES
File 3F-32H-K268 - Hz - Plan #1	700.0	701.0	23.0	20.6	9.602	SF
File 3G-32H-K268 - Hz - Plan #1	366.3	367.3	25.4	24.2	20.599	CC
File 3G-32H-K268 - Hz - Plan #1	400.0	401.0	25.4	24.1	18.809	ES
File 3G-32H-K268 - Hz - Plan #1	600.0	600.0	29.5	27.5	14.406	SF
File 3H-32H-K268 - Hz - Plan #1	332.0	333.0	30.8	29.7	27.596	CC
File 3H-32H-K268 - Hz - Plan #1	400.0	400.7	31.0	29.6	22.924	ES
File 3H-32H-K268 - Hz - Plan #1	600.0	599.5	37.0	35.0	18.084	SF
File 3I-32H-K268 - Hz - Plan #1	845.1	848.7	28.1	25.1	9.189	CC, ES
File 3I-32H-K268 - Hz - Plan #1	1,000.0	1,003.4	31.1	27.3	8.164	SF
File 3J-32H-K268 - Hz - Plan #1	875.8	880.1	36.3	33.2	11.601	CC
File 3J-32H-K268 - Hz - Plan #1	900.0	904.3	36.3	33.1	11.244	ES
File 3J-32H-K268 - Hz - Plan #1	1,100.0	1,104.1	41.8	37.6	9.937	SF
File 3K-32H-K268 - Hz - Plan #1	773.7	777.5	51.3	48.6	19.087	CC
File 3K-32H-K268 - Hz - Plan #1	800.0	803.8	51.3	48.5	18.432	ES
File 3K-32H-K268 - Hz - Plan #1	7,749.8	7,768.0	104.0	75.7	3.676	SF
File 3L-32H-K268 - Hz - Plan #1	653.4	656.0	57.2	55.0	25.477	CC
File 3L-32H-K268 - Hz - Plan #1	700.0	702.8	57.3	54.9	23.765	ES
File 3L-32H-K268 - Hz - Plan #1	7,414.8	7,768.3	222.0	195.5	8.375	SF
File 3M-32H-K268 - Hz - Plan #1	552.2	554.1	73.5	71.6	38.320	CC, ES
File 3M-32H-K268 - Hz - Plan #1	1,000.0	1,000.1	96.9	93.3	26.381	SF
File 3N-32H-K268 - Hz - Plan #1	266.3	267.3	78.3	77.5	88.413	CC
File 3N-32H-K268 - Hz - Plan #1	400.0	400.7	78.5	77.2	58.068	ES
File 3N-32H-K268 - Hz - Plan #1	900.0	896.9	103.5	100.3	32.579	SF
File 3O-32H-K268 - Hz - Plan #1	232.1	233.1	84.0	83.2	109.616	CC
File 3O-32H-K268 - Hz - Plan #1	300.0	300.5	84.2	83.2	83.922	ES
File 3O-32H-K268 - Hz - Plan #1	900.0	891.0	124.6	121.5	39.759	SF
File 3P-32H-K268 - Hz - Plan #1	166.3	167.3	89.5	89.0	166.728	CC
File 3P-32H-K268 - Hz - Plan #1	200.0	201.0	89.5	88.9	136.791	ES
File 3P-32H-K268 - Hz - Plan #1	800.0	790.7	123.5	120.7	44.750	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

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File)						
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	4,977.0	4,876.0	478.7	461.1	27.099	CC, ES
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	5,000.0	4,876.0	479.3	461.6	27.064	SF
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	500.0	500.0	409.3	407.5	237.871	CC, ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	1,700.0	1,695.2	491.8	485.8	81.767	SF
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						Out of range
NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	8,060.7	7,596.0	276.0	245.7	9.094	CC, ES
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	8,100.0	7,596.0	278.8	248.0	9.053	SF
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N	14,175.8	7,637.0	442.4	310.0	3.341	CC
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N	14,183.2	7,637.0	442.4	309.9	3.338	ES, SF
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	8,731.4	7,666.2	377.6	335.9	9.060	CC, ES
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU	8,800.0	7,665.9	383.7	341.0	8.981	SF
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
Ray Nelson 33-32 - DD - Plan #1						Out of range
Ray Nelson 34-32 - DD - Plan #2						Out of range
Ray Nelson 44-32 - DD - Plan #2						Out of range
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU						Out of range
Ray Nelson 7-8-32 - DD - Plan #1						Out of range
Ray Nelson 8-8-32 - DD - Plan #2						Out of range
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N	12,916.3	7,662.0	299.7	189.2	2.711	CC, ES, SF
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8275-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		
9,800.0	7,606.0	7,636.0	7,636.0	45.5	13.3	-90.00	-2,758.3	-632.1	476.3	419.3	56.93	8.366		
9,900.0	7,606.0	7,636.0	7,636.0	47.1	13.3	-90.00	-2,758.3	-632.1	377.4	318.8	58.61	6.439		
10,000.0	7,606.0	7,636.0	7,636.0	48.8	13.3	-90.00	-2,758.3	-632.1	279.3	219.0	60.29	4.633		
10,100.0	7,606.0	7,636.0	7,636.0	50.4	13.3	-90.00	-2,758.3	-632.1	183.3	121.3	61.98	2.957		
10,200.0	7,606.0	7,636.0	7,636.0	52.0	13.3	-90.00	-2,758.3	-632.1	95.8	32.1	63.67	1.504		
10,272.1	7,606.0	7,636.0	7,636.0	53.2	13.3	-90.00	-2,758.3	-632.1	63.1	-1.8	64.89	0.972	Level 1, CC, ES, SF	
10,300.0	7,606.0	7,636.0	7,636.0	53.7	13.3	-90.00	-2,758.3	-632.1	69.0	3.6	65.37	1.055	Level 2	
10,400.0	7,606.0	7,636.0	7,636.0	55.3	13.3	-90.00	-2,758.3	-632.1	142.6	75.5	67.07	2.126		
10,500.0	7,606.0	7,636.0	7,636.0	57.0	13.3	-90.00	-2,758.3	-632.1	236.5	167.7	68.77	3.439		
10,600.0	7,606.0	7,636.0	7,636.0	58.6	13.3	-90.00	-2,758.3	-632.1	333.9	263.4	70.48	4.738		
10,700.0	7,606.0	7,636.0	7,636.0	60.3	13.3	-90.00	-2,758.3	-632.1	432.5	360.4	72.19	5.992		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3A-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	-102.23	-3.6	-16.8	17.2					
100.0	100.0	100.0	100.0	0.2	0.2	-102.23	-3.6	-16.8	17.2	16.9	0.30	56.559		
200.0	200.0	200.0	200.0	0.3	0.3	-102.23	-3.6	-16.8	17.2	16.5	0.65	26.314	CC, ES	
300.0	300.0	299.7	299.7	0.5	0.5	-102.00	-3.8	-17.6	18.0	17.0	1.00	18.005		
400.0	400.0	399.3	399.3	0.7	0.7	-101.42	-4.1	-20.2	20.6	19.3	1.36	15.231		
500.0	500.0	498.8	498.7	0.8	0.9	-100.72	-4.6	-24.5	25.0	23.3	1.72	14.556	SF	
600.0	600.0	598.2	597.9	1.0	1.1	-19.93	-5.4	-30.5	30.2	28.2	2.05	14.776		
700.0	700.0	697.5	696.9	1.2	1.3	-20.64	-6.4	-38.2	35.6	33.2	2.39	14.858		
800.0	799.9	796.7	795.6	1.4	1.5	-21.84	-7.6	-47.6	41.0	38.3	2.74	14.952		
900.0	899.7	895.8	894.1	1.6	1.8	-23.36	-9.1	-58.6	46.6	43.5	3.10	15.054		
1,000.0	999.4	994.8	992.2	1.8	2.0	-25.08	-10.7	-71.4	52.3	48.9	3.45	15.157		
1,100.0	1,098.9	1,093.6	1,090.0	2.0	2.3	-26.91	-12.6	-85.8	58.2	54.4	3.82	15.254		
1,200.0	1,198.3	1,192.4	1,187.4	2.2	2.6	-28.69	-14.7	-101.8	64.7	60.5	4.20	15.417		
1,300.0	1,297.7	1,290.9	1,284.3	2.5	3.0	-29.88	-16.9	-119.5	72.8	68.2	4.58	15.885		
1,400.0	1,397.1	1,389.1	1,380.6	2.7	3.4	-30.53	-19.4	-138.7	82.5	77.5	4.97	16.610		
1,500.0	1,496.5	1,487.0	1,476.2	3.0	3.8	-30.79	-22.1	-159.5	93.9	88.6	5.36	17.537		
1,600.0	1,595.8	1,584.5	1,571.0	3.2	4.2	-30.77	-25.0	-181.9	107.0	101.2	5.74	18.628		
1,700.0	1,695.2	1,682.1	1,665.6	3.5	4.6	-30.57	-28.1	-205.8	121.6	115.5	6.13	19.843		
1,800.0	1,794.6	1,780.9	1,761.3	3.7	5.1	-30.36	-31.3	-230.4	136.6	130.1	6.51	20.973		
1,900.0	1,894.0	1,879.8	1,857.0	4.0	5.5	-30.19	-34.5	-255.0	151.7	144.8	6.90	21.975		
2,000.0	1,993.4	1,978.6	1,952.7	4.2	6.0	-30.06	-37.7	-279.7	166.7	159.4	7.29	22.867		
2,100.0	2,092.8	2,077.5	2,048.4	4.5	6.5	-29.94	-40.9	-304.3	181.8	174.1	7.68	23.668		
2,200.0	2,192.2	2,176.4	2,144.0	4.7	6.9	-29.85	-44.1	-328.9	196.8	188.8	8.07	24.390		
2,300.0	2,291.6	2,275.2	2,239.7	5.0	7.4	-29.77	-47.3	-353.6	211.9	203.4	8.46	25.044		
2,400.0	2,390.9	2,374.1	2,335.4	5.2	7.9	-29.69	-50.5	-378.2	227.0	218.1	8.85	25.640		
2,500.0	2,490.3	2,472.9	2,431.1	5.5	8.4	-29.63	-53.7	-402.8	242.0	232.8	9.24	26.185		
2,600.0	2,589.7	2,571.8	2,526.8	5.7	8.8	-29.58	-56.9	-427.5	257.1	247.4	9.63	26.684		
2,700.0	2,689.1	2,670.7	2,622.5	6.0	9.3	-29.53	-60.1	-452.1	272.1	262.1	10.03	27.144		
2,800.0	2,788.5	2,769.5	2,718.2	6.3	9.8	-29.48	-63.3	-476.7	287.2	276.8	10.42	27.569		
2,900.0	2,887.9	2,868.4	2,813.9	6.5	10.2	-29.44	-66.5	-501.4	302.2	291.4	10.81	27.963		
3,000.0	2,987.3	2,967.2	2,909.6	6.8	10.7	-29.41	-69.6	-526.0	317.3	306.1	11.20	28.328		
3,100.0	3,086.6	3,066.1	3,005.2	7.0	11.2	-29.37	-72.8	-550.6	332.4	320.8	11.59	28.669		
3,200.0	3,186.0	3,165.0	3,100.9	7.3	11.7	-29.34	-76.0	-575.3	347.4	335.4	11.99	28.987		
3,300.0	3,285.4	3,263.8	3,196.6	7.6	12.1	-29.32	-79.2	-599.9	362.5	350.1	12.38	29.285		
3,400.0	3,384.8	3,362.7	3,292.3	7.8	12.6	-29.29	-82.4	-624.5	377.5	364.8	12.77	29.564		
3,500.0	3,484.2	3,461.5	3,388.0	8.1	13.1	-29.27	-85.6	-649.2	392.6	379.4	13.16	29.826		
3,600.0	3,583.6	3,560.4	3,483.7	8.3	13.6	-29.25	-88.8	-673.8	407.6	394.1	13.56	30.073		
3,700.0	3,683.0	3,659.3	3,579.4	8.6	14.0	-29.23	-92.0	-698.4	422.7	408.8	13.95	30.305		
3,800.0	3,782.4	3,758.1	3,675.1	8.8	14.5	-29.21	-95.2	-723.0	437.8	423.4	14.34	30.525		
3,900.0	3,881.7	3,857.0	3,770.7	9.1	15.0	-29.19	-98.4	-747.7	452.8	438.1	14.73	30.733		
4,000.0	3,981.1	3,955.8	3,866.4	9.4	15.5	-29.17	-101.6	-772.3	467.9	452.7	15.13	30.930		
4,100.0	4,080.5	4,054.7	3,962.1	9.6	16.0	-29.16	-104.8	-796.9	482.9	467.4	15.52	31.117		
4,200.0	4,179.9	4,153.6	4,057.8	9.9	16.4	-29.14	-108.0	-821.6	498.0	482.1	15.91	31.295		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-11.2	11.2	10.9	0.30	36.850		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-11.2	11.2	10.5	0.65	17.144		
300.0	300.0	300.0	300.0	0.5	0.5	-89.98	0.0	-11.2	11.2	10.2	1.00	11.171 CC, ES		
400.0	400.0	399.8	399.8	0.7	0.7	-89.60	0.1	-12.1	12.1	10.7	1.35	8.924		
500.0	500.0	499.5	499.5	0.8	0.9	-88.72	0.3	-14.6	14.7	13.0	1.70	8.606 SF		
600.0	600.0	599.2	599.0	1.0	1.0	-7.47	0.7	-19.0	18.1	16.1	2.05	8.859		
700.0	700.0	698.8	698.5	1.2	1.2	-7.39	1.3	-25.0	21.6	19.2	2.40	9.026		
800.0	799.9	798.3	797.7	1.4	1.4	-7.61	2.0	-32.8	25.1	22.4	2.74	9.152		
900.0	899.7	897.8	896.7	1.6	1.7	-8.01	2.9	-42.2	28.6	25.5	3.09	9.251		
1,000.0	999.4	997.2	995.5	1.8	1.9	-8.54	3.9	-53.4	32.1	28.7	3.44	9.331		
1,100.0	1,098.9	1,096.6	1,094.0	2.0	2.2	-9.17	5.1	-66.2	35.6	31.8	3.79	9.396		
1,200.0	1,198.3	1,195.8	1,192.2	2.2	2.5	-9.76	6.5	-80.8	39.5	35.3	4.14	9.533		
1,300.0	1,297.7	1,295.0	1,290.0	2.5	2.8	-10.04	8.0	-97.0	45.0	40.5	4.49	10.005		
1,400.0	1,397.1	1,393.9	1,387.2	2.7	3.1	-10.05	9.7	-114.8	52.2	47.3	4.85	10.763		
1,500.0	1,496.5	1,493.4	1,484.9	3.0	3.5	-9.95	11.5	-133.9	60.5	55.3	5.20	11.622		
1,600.0	1,595.8	1,593.1	1,582.7	3.2	3.8	-9.87	13.2	-152.9	68.7	63.2	5.56	12.374		
1,700.0	1,695.2	1,692.7	1,680.5	3.5	4.2	-9.81	15.0	-172.0	77.0	71.1	5.91	13.036		
1,800.0	1,794.6	1,792.4	1,778.3	3.7	4.6	-9.76	16.8	-191.0	85.3	79.1	6.26	13.623		
1,900.0	1,894.0	1,892.0	1,876.1	4.0	4.9	-9.72	18.6	-210.1	93.6	87.0	6.62	14.146		
2,000.0	1,993.4	1,991.7	1,973.9	4.2	5.3	-9.68	20.3	-229.1	101.9	95.0	6.97	14.617		
2,100.0	2,092.8	2,091.3	2,071.7	4.5	5.7	-9.65	22.1	-248.2	110.2	102.9	7.33	15.042		
2,200.0	2,192.2	2,191.0	2,169.5	4.7	6.1	-9.63	23.9	-267.2	118.5	110.8	7.68	15.428		
2,300.0	2,291.6	2,290.6	2,267.3	5.0	6.4	-9.61	25.7	-286.3	126.8	118.8	8.04	15.779		
2,400.0	2,390.9	2,390.3	2,365.1	5.2	6.8	-9.59	27.5	-305.4	135.1	126.7	8.39	16.101		
2,500.0	2,490.3	2,490.0	2,462.9	5.5	7.2	-9.57	29.2	-324.4	143.4	134.7	8.75	16.397		
2,600.0	2,589.7	2,589.6	2,560.7	5.7	7.6	-9.55	31.0	-343.5	151.7	142.6	9.10	16.669		
2,700.0	2,689.1	2,689.3	2,658.5	6.0	7.9	-9.54	32.8	-362.5	160.0	150.5	9.45	16.922		
2,800.0	2,788.5	2,788.9	2,756.3	6.3	8.3	-9.53	34.6	-381.6	168.3	158.5	9.81	17.156		
2,900.0	2,887.9	2,888.6	2,854.1	6.5	8.7	-9.52	36.3	-400.6	176.6	166.4	10.16	17.373		
3,000.0	2,987.3	2,988.2	2,951.9	6.8	9.1	-9.51	38.1	-419.7	184.9	174.4	10.52	17.576		
3,100.0	3,086.6	3,087.9	3,049.7	7.0	9.5	-9.50	39.9	-438.7	193.2	182.3	10.87	17.766		
3,200.0	3,186.0	3,187.5	3,147.5	7.3	9.8	-9.49	41.7	-457.8	201.5	190.2	11.23	17.943		
3,300.0	3,285.4	3,287.2	3,245.3	7.6	10.2	-9.48	43.5	-476.9	209.8	198.2	11.58	18.110		
3,400.0	3,384.8	3,386.9	3,343.1	7.8	10.6	-9.48	45.2	-495.9	218.0	206.1	11.94	18.267		
3,500.0	3,484.2	3,486.5	3,440.9	8.1	11.0	-9.47	47.0	-515.0	226.3	214.1	12.29	18.415		
3,600.0	3,583.6	3,586.2	3,538.7	8.3	11.3	-9.46	48.8	-534.0	234.6	222.0	12.65	18.554		
3,700.0	3,683.0	3,685.8	3,636.5	8.6	11.7	-9.46	50.6	-553.1	242.9	229.9	13.00	18.686		
3,800.0	3,782.4	3,785.5	3,734.3	8.8	12.1	-9.45	52.4	-572.1	251.2	237.9	13.36	18.811		
3,900.0	3,881.7	3,885.1	3,832.1	9.1	12.5	-9.45	54.1	-591.2	259.5	245.8	13.71	18.929		
4,000.0	3,981.1	3,984.8	3,929.9	9.4	12.9	-9.44	55.9	-610.2	267.8	253.7	14.06	19.042		
4,100.0	4,080.5	4,084.4	4,027.7	9.6	13.2	-9.44	57.7	-629.3	276.1	261.7	14.42	19.149		
4,200.0	4,179.9	4,184.1	4,125.5	9.9	13.6	-9.43	59.5	-648.4	284.4	269.6	14.77	19.251		
4,300.0	4,279.3	4,283.7	4,223.3	10.1	14.0	-9.43	61.2	-667.4	292.7	277.6	15.13	19.347		
4,400.0	4,378.7	4,383.4	4,321.1	10.4	14.4	-9.43	63.0	-686.5	301.0	285.5	15.48	19.440		
4,500.0	4,478.1	4,483.1	4,418.9	10.7	14.8	-9.42	64.8	-705.5	309.3	293.4	15.84	19.528		
4,600.0	4,577.4	4,582.7	4,516.7	10.9	15.2	-9.42	66.6	-724.6	317.6	301.4	16.19	19.613		
4,700.0	4,676.8	4,682.4	4,614.5	11.2	15.5	-9.42	68.4	-743.6	325.9	309.3	16.55	19.694		
4,800.0	4,776.2	4,782.0	4,712.3	11.4	15.9	-9.41	70.1	-762.7	334.2	317.3	16.90	19.771		
4,900.0	4,875.6	4,881.7	4,810.1	11.7	16.3	-9.41	71.9	-781.7	342.5	325.2	17.26	19.846		
5,000.0	4,975.0	4,981.3	4,907.9	12.0	16.7	-9.41	73.7	-800.8	350.8	333.1	17.61	19.917		
5,100.0	5,074.4	5,081.0	5,005.7	12.2	17.1	-9.40	75.5	-819.8	359.1	341.1	17.97	19.985		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,173.8	5,180.6	5,103.5	12.5	17.4	-9.40	77.2	-838.9	367.3	349.0	18.32	20.051		
5,300.0	5,273.1	5,280.3	5,201.3	12.7	17.8	-9.40	79.0	-858.0	375.6	357.0	18.68	20.115		
5,400.0	5,372.5	5,380.0	5,299.1	13.0	18.2	-9.40	80.8	-877.0	383.9	364.9	19.03	20.175		
5,500.0	5,471.9	5,479.6	5,396.9	13.3	18.6	-9.40	82.6	-896.1	392.2	372.8	19.38	20.234		
5,600.0	5,571.3	5,579.3	5,494.7	13.5	19.0	-9.39	84.4	-915.1	400.5	380.8	19.74	20.291		
5,700.0	5,670.7	5,678.9	5,592.5	13.8	19.3	-9.39	86.1	-934.2	408.8	388.7	20.09	20.345		
5,800.0	5,770.1	5,778.6	5,690.3	14.1	19.7	-9.39	87.9	-953.2	417.1	396.7	20.45	20.398		
5,900.0	5,869.5	5,878.2	5,788.1	14.3	20.1	-9.39	89.7	-972.3	425.4	404.6	20.80	20.449		
6,000.0	5,968.9	5,977.9	5,885.9	14.6	20.5	-9.39	91.5	-991.3	433.7	412.5	21.16	20.498		
6,100.0	6,068.2	6,077.5	5,983.7	14.8	20.9	-9.38	93.3	-1,010.4	442.0	420.5	21.51	20.546		
6,200.0	6,167.6	6,177.2	6,081.5	15.1	21.2	-9.38	95.0	-1,029.5	450.3	428.4	21.87	20.592		
6,300.0	6,267.0	6,276.9	6,179.3	15.4	21.6	-9.38	96.8	-1,048.5	458.6	436.4	22.22	20.637		
6,400.0	6,366.4	6,376.5	6,277.1	15.6	22.0	-9.38	98.6	-1,067.6	466.9	444.3	22.58	20.680		
6,500.0	6,465.8	6,476.2	6,374.9	15.9	22.4	-9.38	100.4	-1,086.6	475.2	452.2	22.93	20.722		
6,600.0	6,565.2	6,575.8	6,472.7	16.1	22.8	-9.38	102.1	-1,105.7	483.5	460.2	23.29	20.762		
6,700.0	6,664.6	6,675.5	6,570.5	16.4	23.2	-9.38	103.9	-1,124.7	491.8	468.1	23.64	20.801		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	-123.07	-3.6	-5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	-123.07	-3.6	-5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	-123.07	-3.6	-5.6	6.7	6.0	0.65	10.229		
300.0	300.0	300.0	300.0	0.5	0.5	-123.07	-3.6	-5.6	6.7	5.7	1.00	6.665		
400.0	400.0	400.0	400.0	0.7	0.7	-123.07	-3.6	-5.6	6.7	5.3	1.35	4.943 CC, ES		
500.0	500.0	499.9	499.9	0.8	0.9	-120.97	-3.9	-6.4	7.5	5.8	1.70	4.416		
600.0	600.0	599.7	599.7	1.0	1.0	-39.25	-4.5	-9.0	9.4	7.3	2.05	4.565		
700.0	700.0	699.5	699.4	1.2	1.2	-41.76	-5.6	-13.2	11.5	9.1	2.40	4.809		
800.0	799.9	799.3	799.0	1.4	1.4	-45.96	-7.2	-19.0	14.1	11.4	2.76	5.127		
900.0	899.7	899.0	898.3	1.6	1.6	-50.77	-9.1	-26.6	17.2	14.1	3.13	5.508		
1,000.0	999.4	998.6	997.5	1.8	1.8	-55.57	-11.5	-35.8	20.9	17.4	3.52	5.937		
1,100.0	1,098.9	1,098.2	1,096.4	2.0	2.1	-60.04	-14.4	-46.7	25.2	21.2	3.94	6.392		
1,200.0	1,198.3	1,197.6	1,195.1	2.2	2.3	-63.44	-17.7	-59.2	30.3	25.9	4.38	6.906		
1,300.0	1,297.7	1,297.0	1,293.3	2.5	2.6	-64.21	-21.4	-73.4	36.7	31.9	4.84	7.589		
1,400.0	1,397.1	1,396.1	1,391.1	2.7	2.9	-63.29	-25.5	-89.2	44.5	39.2	5.29	8.407		
1,500.0	1,496.5	1,495.6	1,489.1	3.0	3.3	-61.83	-29.9	-106.1	53.2	47.5	5.74	9.271		
1,600.0	1,595.8	1,595.2	1,587.1	3.2	3.6	-60.76	-34.4	-123.2	62.0	55.8	6.19	10.013		
1,700.0	1,695.2	1,694.8	1,685.1	3.5	3.9	-59.95	-38.8	-140.2	70.8	64.2	6.65	10.653		
1,800.0	1,794.6	1,794.4	1,783.2	3.7	4.3	-59.33	-43.3	-157.2	79.6	72.5	7.10	11.209		
1,900.0	1,894.0	1,894.1	1,881.2	4.0	4.6	-58.82	-47.7	-174.3	88.4	80.9	7.56	11.697		
2,000.0	1,993.4	1,993.7	1,979.3	4.2	4.9	-58.41	-52.2	-191.3	97.2	89.2	8.02	12.127		
2,100.0	2,092.8	2,093.3	2,077.3	4.5	5.3	-58.07	-56.6	-208.3	106.1	97.6	8.48	12.509		
2,200.0	2,192.2	2,192.9	2,175.3	4.7	5.6	-57.78	-61.1	-225.4	114.9	106.0	8.94	12.851		
2,300.0	2,291.6	2,292.5	2,273.4	5.0	6.0	-57.53	-65.5	-242.4	123.7	114.3	9.40	13.159		
2,400.0	2,390.9	2,392.1	2,371.4	5.2	6.3	-57.31	-70.0	-259.4	132.6	122.7	9.87	13.437		
2,500.0	2,490.3	2,491.7	2,469.5	5.5	6.7	-57.12	-74.5	-276.5	141.4	131.1	10.33	13.689		
2,600.0	2,589.7	2,591.3	2,567.5	5.7	7.0	-56.96	-78.9	-293.5	150.2	139.4	10.79	13.919		
2,700.0	2,689.1	2,690.9	2,665.5	6.0	7.4	-56.81	-83.4	-310.5	159.1	147.8	11.26	14.129		
2,800.0	2,788.5	2,790.5	2,763.6	6.3	7.7	-56.68	-87.8	-327.6	167.9	156.2	11.72	14.323		
2,900.0	2,887.9	2,890.1	2,861.6	6.5	8.1	-56.56	-92.3	-344.6	176.8	164.6	12.19	14.501		
3,000.0	2,987.3	2,989.7	2,959.7	6.8	8.4	-56.45	-96.7	-361.6	185.6	172.9	12.66	14.666		
3,100.0	3,086.6	3,089.4	3,057.7	7.0	8.8	-56.35	-101.2	-378.7	194.4	181.3	13.12	14.819		
3,200.0	3,186.0	3,189.0	3,155.7	7.3	9.1	-56.26	-105.6	-395.7	203.3	189.7	13.59	14.961		
3,300.0	3,285.4	3,288.6	3,253.8	7.6	9.5	-56.18	-110.1	-412.7	212.1	198.1	14.05	15.093		
3,400.0	3,384.8	3,388.2	3,351.8	7.8	9.9	-56.10	-114.5	-429.8	221.0	206.4	14.52	15.217		
3,500.0	3,484.2	3,487.8	3,449.9	8.1	10.2	-56.04	-119.0	-446.8	229.8	214.8	14.99	15.332		
3,600.0	3,583.6	3,587.4	3,547.9	8.3	10.6	-55.97	-123.4	-463.8	238.6	223.2	15.46	15.441		
3,700.0	3,683.0	3,687.0	3,645.9	8.6	10.9	-55.91	-127.9	-480.9	247.5	231.6	15.92	15.543		
3,800.0	3,782.4	3,786.6	3,744.0	8.8	11.3	-55.85	-132.3	-497.9	256.3	239.9	16.39	15.639		
3,900.0	3,881.7	3,886.2	3,842.0	9.1	11.6	-55.80	-136.8	-514.9	265.2	248.3	16.86	15.730		
4,000.0	3,981.1	3,985.8	3,940.0	9.4	12.0	-55.75	-141.2	-531.9	274.0	256.7	17.33	15.816		
4,100.0	4,080.5	4,085.4	4,038.1	9.6	12.3	-55.71	-145.7	-549.0	282.9	265.1	17.79	15.897		
4,200.0	4,179.9	4,185.0	4,136.1	9.9	12.7	-55.67	-150.1	-566.0	291.7	273.4	18.26	15.974		
4,300.0	4,279.3	4,284.6	4,234.2	10.1	13.0	-55.62	-154.6	-583.0	300.6	281.8	18.73	16.046		
4,400.0	4,378.7	4,384.3	4,332.2	10.4	13.4	-55.59	-159.0	-600.1	309.4	290.2	19.20	16.116		
4,500.0	4,478.1	4,483.9	4,430.2	10.7	13.8	-55.55	-163.5	-617.1	318.2	298.6	19.67	16.182		
4,600.0	4,577.4	4,583.5	4,528.3	10.9	14.1	-55.52	-168.0	-634.1	327.1	307.0	20.14	16.244		
4,700.0	4,676.8	4,683.1	4,626.3	11.2	14.5	-55.48	-172.4	-651.2	335.9	315.3	20.60	16.304		
4,800.0	4,776.2	4,782.7	4,724.4	11.4	14.8	-55.45	-176.9	-668.2	344.8	323.7	21.07	16.362		
4,900.0	4,875.6	4,882.3	4,822.4	11.7	15.2	-55.43	-181.3	-685.2	353.6	332.1	21.54	16.416		
5,000.0	4,975.0	4,981.9	4,920.4	12.0	15.5	-55.40	-185.8	-702.3	362.5	340.5	22.01	16.468		
5,100.0	5,074.4	5,081.5	5,018.5	12.2	15.9	-55.37	-190.2	-719.3	371.3	348.8	22.48	16.519		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor	
5,200.0	5,173.8	5,181.1	5,116.5	12.5	16.2	-55.35	-194.7	-736.3	380.2	357.2	22.95	16.567		
5,300.0	5,273.1	5,280.7	5,214.6	12.7	16.6	-55.32	-199.1	-753.4	389.0	365.6	23.42	16.613		
5,400.0	5,372.5	5,380.3	5,312.6	13.0	17.0	-55.30	-203.6	-770.4	397.9	374.0	23.89	16.657		
5,500.0	5,471.9	5,479.9	5,410.6	13.3	17.3	-55.28	-208.0	-787.4	406.7	382.3	24.35	16.699		
5,600.0	5,571.3	5,579.5	5,508.7	13.5	17.7	-55.26	-212.5	-804.5	415.5	390.7	24.82	16.740		
5,700.0	5,670.7	5,679.2	5,606.7	13.8	18.0	-55.24	-216.9	-821.5	424.4	399.1	25.29	16.779		
5,800.0	5,770.1	5,778.8	5,704.8	14.1	18.4	-55.22	-221.4	-838.5	433.2	407.5	25.76	16.817		
5,900.0	5,869.5	5,878.4	5,802.8	14.3	18.7	-55.20	-225.8	-855.6	442.1	415.8	26.23	16.854		
6,000.0	5,968.9	5,978.0	5,900.8	14.6	19.1	-55.18	-230.3	-872.6	450.9	424.2	26.70	16.889		
6,100.0	6,068.2	6,077.6	5,998.9	14.8	19.5	-55.16	-234.7	-889.6	459.8	432.6	27.17	16.923		
6,200.0	6,167.6	6,177.2	6,096.9	15.1	19.8	-55.15	-239.2	-906.7	468.6	441.0	27.64	16.955		
6,300.0	6,267.0	6,276.8	6,195.0	15.4	20.2	-55.13	-243.6	-923.7	477.5	449.4	28.11	16.987		
6,400.0	6,366.4	6,376.4	6,293.0	15.6	20.5	-55.12	-248.1	-940.7	486.3	457.7	28.58	17.018		
6,500.0	6,465.8	6,476.0	6,391.0	15.9	20.9	-55.10	-252.6	-957.8	495.2	466.1	29.05	17.047		
8,000.0	7,606.0	7,537.3	7,317.4	21.0	26.2	53.90	-584.1	-1,128.8	497.8	468.4	29.42	16.922		
8,100.0	7,606.0	7,600.0	7,342.2	21.9	26.7	56.79	-641.3	-1,135.1	483.8	452.3	31.54	15.340		
8,200.0	7,606.0	7,674.8	7,363.5	22.9	27.5	59.41	-712.6	-1,141.2	477.0	443.1	33.92	14.060		
8,269.7	7,606.0	7,727.7	7,372.9	23.6	28.0	60.65	-764.6	-1,144.7	475.7	440.1	35.57	13.373		
8,300.0	7,606.0	7,750.0	7,375.4	24.0	28.2	61.01	-786.7	-1,145.9	475.9	439.7	36.25	13.129		
8,400.0	7,606.0	7,836.3	7,378.0	25.1	29.1	61.57	-872.9	-1,149.3	479.5	440.9	38.60	12.420		
8,500.0	7,606.0	7,936.2	7,378.0	26.3	30.2	61.87	-972.7	-1,152.8	484.1	442.9	41.16	11.762		
8,600.0	7,606.0	8,036.0	7,378.0	27.6	31.3	62.16	-1,072.5	-1,156.3	488.7	444.9	43.80	11.157		
8,700.0	7,606.0	8,135.9	7,378.0	29.0	32.5	62.44	-1,172.3	-1,159.8	493.3	446.8	46.52	10.604		
8,800.0	7,606.0	8,238.3	7,378.0	30.3	33.8	62.72	-1,274.7	-1,163.3	497.9	448.6	49.35	10.089		
10,300.0	7,606.0	9,760.3	7,378.0	53.7	55.8	62.87	-2,796.3	-1,139.5	499.9	406.4	93.54	5.345		
10,400.0	7,606.0	9,860.3	7,378.0	55.3	57.4	62.85	-2,896.3	-1,137.5	499.7	403.1	96.56	5.175		
10,500.0	7,606.0	9,960.3	7,378.0	57.0	59.0	62.84	-2,996.3	-1,135.4	499.5	399.9	99.58	5.016		
10,600.0	7,606.0	10,060.3	7,378.0	58.6	60.6	62.82	-3,096.2	-1,133.4	499.2	396.6	102.60	4.866		
10,700.0	7,606.0	10,160.3	7,378.0	60.3	62.2	62.81	-3,196.2	-1,131.4	499.0	393.3	105.63	4.724		
10,800.0	7,606.0	10,260.3	7,378.0	62.0	63.8	62.80	-3,296.2	-1,129.4	498.7	390.1	108.66	4.590		
10,900.0	7,606.0	10,360.3	7,378.0	63.6	65.5	62.78	-3,396.2	-1,127.3	498.5	386.8	111.70	4.463		
11,000.0	7,606.0	10,460.3	7,378.0	65.3	67.1	62.77	-3,496.2	-1,125.3	498.2	383.5	114.74	4.342		
11,100.0	7,606.0	10,560.3	7,378.0	67.0	68.7	62.75	-3,596.1	-1,123.3	498.0	380.2	117.78	4.228		
11,172.0	7,606.0	10,631.1	7,378.0	68.2	69.9	62.74	-3,666.9	-1,121.9	497.8	377.9	119.96	4.150		
11,200.0	7,606.0	10,657.0	7,378.0	68.7	70.3	62.75	-3,692.9	-1,121.5	497.9	377.1	120.79	4.122		
11,300.0	7,606.0	10,751.3	7,378.0	70.4	71.9	62.81	-3,787.2	-1,121.0	499.0	375.2	123.83	4.030		
13,200.0	7,606.0	12,694.9	7,378.0	102.9	104.6	62.63	-5,729.4	-1,083.7	497.1	314.3	182.83	2.719		
13,300.0	7,606.0	12,794.6	7,378.0	104.7	106.3	62.20	-5,828.6	-1,074.1	490.1	304.9	185.24	2.646		
13,400.0	7,606.0	12,894.2	7,378.0	106.4	107.9	61.77	-5,927.8	-1,064.5	483.2	295.6	187.60	2.575		
13,500.0	7,606.0	12,993.9	7,378.0	108.1	109.6	61.32	-6,027.0	-1,054.9	476.2	286.3	189.90	2.508		
13,600.0	7,606.0	13,093.6	7,378.0	109.8	111.3	60.86	-6,126.3	-1,045.3	469.3	277.2	192.15	2.442		
13,700.0	7,606.0	13,193.3	7,378.0	111.6	113.0	60.38	-6,225.5	-1,035.8	462.4	268.1	194.33	2.380		
13,800.0	7,606.0	13,293.0	7,378.0	113.3	114.7	59.89	-6,324.7	-1,026.2	455.6	259.2	196.44	2.319		
13,900.0	7,606.0	13,392.7	7,378.0	115.0	116.4	59.39	-6,424.0	-1,016.6	448.8	250.3	198.48	2.261		
14,000.0	7,606.0	13,492.4	7,378.0	116.8	118.0	58.87	-6,523.2	-1,007.0	442.0	241.6	200.45	2.205		
14,036.9	7,606.0	13,499.5	7,378.0	117.4	118.2	58.83	-6,530.2	-1,006.3	440.5	239.5	201.03	2.191 SF		
14,100.0	7,606.0	13,499.5	7,378.0	118.5	118.2	58.83	-6,530.2	-1,006.3	445.0	243.1	201.97	2.203		
14,183.2	7,606.0	13,499.5	7,378.0	119.9	118.2	58.83	-6,530.2	-1,006.3	464.2	261.0	203.22	2.284		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 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	1.0	1.0	0.0	0.0	104.61	-3.6	14.0	14.5					
100.0	100.0	101.0	101.0	0.2	0.2	104.61	-3.6	14.0	14.5	14.2	0.31	47.330		
200.0	200.0	201.0	201.0	0.3	0.3	104.61	-3.6	14.0	14.5	13.8	0.65	22.088		
300.0	300.0	301.0	301.0	0.5	0.5	104.61	-3.6	14.0	14.5	13.5	1.00	14.405		
400.0	400.0	401.0	401.0	0.7	0.7	104.61	-3.6	14.0	14.5	13.1	1.35	10.688		
500.0	500.0	501.0	501.0	0.8	0.9	104.61	-3.6	14.0	14.5	12.8	1.70	8.495 CC, ES		
600.0	600.0	601.0	601.0	1.0	1.0	-175.02	-3.6	14.0	15.3	13.3	2.05	7.474		
700.0	700.0	701.3	701.3	1.2	1.2	-176.24	-3.3	13.2	17.1	14.7	2.40	7.108		
800.0	799.9	801.6	801.5	1.4	1.4	-178.50	-2.3	10.7	18.8	16.1	2.75	6.849		
900.0	899.7	901.8	901.6	1.6	1.6	178.54	-0.6	6.7	20.7	17.6	3.10	6.696		
1,000.0	999.4	1,001.7	1,001.5	1.8	1.7	176.06	1.3	2.4	24.0	20.6	3.44	6.971		
1,100.0	1,098.9	1,101.6	1,101.2	2.0	1.9	174.52	3.1	-2.0	29.1	25.3	3.79	7.663		
1,200.0	1,198.3	1,201.4	1,200.9	2.2	2.1	173.70	5.0	-6.4	35.5	31.4	4.14	8.567		
1,300.0	1,297.7	1,301.1	1,300.6	2.5	2.3	173.14	6.8	-10.7	42.0	37.5	4.50	9.351		
1,400.0	1,397.1	1,400.9	1,400.2	2.7	2.5	172.74	8.7	-15.1	48.6	43.7	4.85	10.021		
1,500.0	1,496.5	1,500.7	1,499.9	3.0	2.7	172.43	10.5	-19.5	55.1	49.9	5.20	10.599		
1,600.0	1,595.8	1,600.5	1,599.6	3.2	2.9	172.19	12.4	-23.8	61.7	56.1	5.55	11.104		
1,700.0	1,695.2	1,700.3	1,699.2	3.5	3.1	171.99	14.2	-28.2	68.2	62.3	5.91	11.549		
1,800.0	1,794.6	1,800.1	1,798.9	3.7	3.3	171.83	16.1	-32.6	74.8	68.5	6.26	11.942		
1,900.0	1,894.0	1,899.9	1,898.6	4.0	3.4	171.69	18.0	-36.9	81.3	74.7	6.62	12.294		
2,000.0	1,993.4	1,999.6	1,998.3	4.2	3.6	171.58	19.8	-41.3	87.9	80.9	6.97	12.610		
2,100.0	2,092.8	2,099.4	2,097.9	4.5	3.8	171.48	21.7	-45.7	94.4	87.1	7.32	12.895		
2,200.0	2,192.2	2,199.2	2,197.6	4.7	4.0	171.39	23.5	-50.0	101.0	93.3	7.68	13.153		
2,300.0	2,291.6	2,299.0	2,297.3	5.0	4.2	171.31	25.4	-54.4	107.5	99.5	8.03	13.389		
2,400.0	2,390.9	2,398.8	2,397.0	5.2	4.4	171.25	27.2	-58.8	114.1	105.7	8.39	13.605		
2,500.0	2,490.3	2,498.6	2,496.6	5.5	4.6	171.19	29.1	-63.2	120.6	111.9	8.74	13.803		
2,600.0	2,589.7	2,598.4	2,596.3	5.7	4.8	171.13	30.9	-67.5	127.2	118.1	9.09	13.986		
2,700.0	2,689.1	2,698.1	2,696.0	6.0	5.0	171.08	32.8	-71.9	133.7	124.3	9.45	14.155		
2,800.0	2,788.5	2,797.9	2,795.6	6.3	5.2	171.04	34.6	-76.3	140.3	130.5	9.80	14.311		
2,900.0	2,887.9	2,897.7	2,895.3	6.5	5.4	171.00	36.5	-80.6	146.8	136.7	10.16	14.457		
3,000.0	2,987.3	2,997.5	2,995.0	6.8	5.6	170.96	38.3	-85.0	153.4	142.9	10.51	14.593		
3,100.0	3,086.6	3,097.3	3,094.7	7.0	5.7	170.93	40.2	-89.4	159.9	149.1	10.87	14.720		
3,200.0	3,186.0	3,197.1	3,194.3	7.3	5.9	170.90	42.0	-93.7	166.5	155.3	11.22	14.838		
3,300.0	3,285.4	3,296.9	3,294.0	7.6	6.1	170.87	43.9	-98.1	173.0	161.5	11.58	14.950		
3,400.0	3,384.8	3,396.6	3,393.7	7.8	6.3	170.84	45.7	-102.5	179.6	167.7	11.93	15.055		
3,500.0	3,484.2	3,496.4	3,493.4	8.1	6.5	170.82	47.6	-106.8	186.2	173.9	12.28	15.154		
3,600.0	3,583.6	3,596.2	3,593.0	8.3	6.7	170.80	49.4	-111.2	192.7	180.1	12.64	15.247		
3,700.0	3,683.0	3,696.0	3,692.7	8.6	6.9	170.77	51.3	-115.6	199.3	186.3	12.99	15.335		
3,800.0	3,782.4	3,795.8	3,792.4	8.8	7.1	170.75	53.1	-119.9	205.8	192.5	13.35	15.418		
3,900.0	3,881.7	3,895.6	3,892.0	9.1	7.3	170.74	55.0	-124.3	212.4	198.7	13.70	15.497		
4,000.0	3,981.1	3,995.3	3,991.7	9.4	7.5	170.72	56.9	-128.7	218.9	204.9	14.06	15.573		
4,100.0	4,080.5	4,095.1	4,091.4	9.6	7.7	170.70	58.7	-133.0	225.5	211.1	14.41	15.644		
4,200.0	4,179.9	4,194.9	4,191.1	9.9	7.9	170.69	60.6	-137.4	232.0	217.3	14.77	15.712		
4,300.0	4,279.3	4,294.7	4,290.7	10.1	8.1	170.67	62.4	-141.8	238.6	223.4	15.12	15.777		
4,400.0	4,378.7	4,394.5	4,390.4	10.4	8.2	170.66	64.3	-146.1	245.1	229.6	15.48	15.838		
4,500.0	4,478.1	4,494.3	4,490.1	10.7	8.4	170.64	66.1	-150.5	251.7	235.8	15.83	15.897		
4,600.0	4,577.4	4,594.1	4,589.7	10.9	8.6	170.63	68.0	-154.9	258.2	242.0	16.19	15.954		
4,700.0	4,676.8	4,693.8	4,689.4	11.2	8.8	170.62	69.8	-159.2	264.8	248.2	16.54	16.008		
4,800.0	4,776.2	4,793.6	4,789.1	11.4	9.0	170.61	71.7	-163.6	271.3	254.4	16.90	16.059		
4,900.0	4,875.6	4,893.4	4,888.8	11.7	9.2	170.60	73.5	-168.0	277.9	260.6	17.25	16.109		
5,000.0	4,975.0	4,993.2	4,988.4	12.0	9.4	170.59	75.4	-172.3	284.4	266.8	17.61	16.156		
5,100.0	5,074.4	5,093.0	5,088.1	12.2	9.6	170.58	77.2	-176.7	291.0	273.0	17.96	16.202		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,173.8	5,192.8	5,187.8	12.5	9.8	170.57	79.1	-181.1	297.5	279.2	18.31	16.246	
5,300.0	5,273.1	5,292.6	5,287.5	12.7	10.0	170.56	80.9	-185.4	304.1	285.4	18.67	16.288	
5,400.0	5,372.5	5,392.3	5,387.1	13.0	10.2	170.55	82.8	-189.8	310.6	291.6	19.02	16.329	
5,500.0	5,471.9	5,492.1	5,486.8	13.3	10.4	170.54	84.6	-194.2	317.2	297.8	19.38	16.368	
5,600.0	5,571.3	5,591.9	5,586.5	13.5	10.6	170.53	86.5	-198.5	323.8	304.0	19.73	16.406	
5,700.0	5,670.7	5,691.7	5,686.1	13.8	10.7	170.52	88.3	-202.9	330.3	310.2	20.09	16.442	
5,800.0	5,770.1	5,791.5	5,785.8	14.1	10.9	170.52	90.2	-207.3	336.9	316.4	20.44	16.477	
5,900.0	5,869.5	5,891.3	5,885.5	14.3	11.1	170.51	92.0	-211.7	343.4	322.6	20.80	16.511	
6,000.0	5,968.9	5,991.0	5,985.2	14.6	11.3	170.50	93.9	-216.0	350.0	328.8	21.15	16.544	
6,100.0	6,068.2	6,090.8	6,084.8	14.8	11.5	170.50	95.7	-220.4	356.5	335.0	21.51	16.576	
6,200.0	6,167.6	6,190.6	6,184.5	15.1	11.7	170.49	97.6	-224.8	363.1	341.2	21.86	16.606	
6,300.0	6,267.0	6,290.4	6,284.2	15.4	11.9	170.48	99.5	-229.1	369.6	347.4	22.22	16.636	
6,400.0	6,366.4	6,390.2	6,383.8	15.6	12.1	170.48	101.3	-233.5	376.2	353.6	22.57	16.665	
6,500.0	6,465.8	6,490.0	6,483.5	15.9	12.3	170.47	103.2	-237.9	382.7	359.8	22.93	16.693	
6,600.0	6,565.2	6,589.8	6,583.2	16.1	12.5	170.47	105.0	-242.2	389.3	366.0	23.28	16.720	
6,700.0	6,664.6	6,689.5	6,682.9	16.4	12.7	170.46	106.9	-246.6	395.8	372.2	23.64	16.746	
6,800.0	6,763.9	6,789.3	6,782.5	16.7	12.9	170.46	108.7	-251.0	402.4	378.4	23.99	16.771	
6,900.0	6,863.3	6,888.7	6,881.5	16.9	13.0	171.37	104.0	-255.3	409.0	384.7	24.28	16.846	
7,000.0	6,962.7	6,983.1	6,973.6	17.2	13.2	174.38	83.8	-259.3	416.4	392.0	24.46	17.024	
7,100.0	7,062.1	7,068.9	7,053.3	17.4	13.3	-148.31	52.6	-262.8	427.0	402.3	24.69	17.296	
7,200.0	7,160.5	7,150.0	7,123.7	17.7	13.4	-102.17	12.4	-265.9	440.4	415.3	25.11	17.537	
7,300.0	7,255.2	7,227.2	7,184.7	17.8	13.6	-86.84	-34.6	-268.6	454.9	429.2	25.70	17.700	
7,400.0	7,343.2	7,300.0	7,236.0	18.0	13.8	-78.56	-86.2	-270.8	469.5	443.2	26.32	17.836	
7,500.0	7,421.8	7,375.9	7,282.1	18.3	14.1	-72.93	-146.4	-272.9	483.0	456.1	26.92	17.943	
7,600.0	7,488.8	7,450.0	7,319.0	18.6	14.5	-68.97	-210.6	-274.5	494.7	467.3	27.40	18.052	
8,800.0	7,606.0	8,536.0	7,378.0	30.3	27.7	-62.70	-1,287.5	-277.1	499.4	450.2	49.15	10.159	
8,900.0	7,606.0	8,636.0	7,378.0	31.7	29.3	-62.61	-1,387.5	-277.1	497.8	445.9	51.90	9.592	
9,000.0	7,606.0	8,736.0	7,378.0	33.2	30.8	-62.52	-1,487.5	-277.1	496.3	441.6	54.67	9.077	
9,100.0	7,606.0	8,836.0	7,378.0	34.7	32.4	-62.42	-1,587.5	-277.1	494.7	437.2	57.48	8.607	
9,200.0	7,606.0	8,936.0	7,378.0	36.1	34.0	-62.33	-1,687.5	-277.1	493.2	432.9	60.30	8.178	
9,300.0	7,606.0	9,036.0	7,378.0	37.7	35.6	-62.23	-1,787.5	-277.1	491.6	428.5	63.14	7.786	
9,400.0	7,606.0	9,136.0	7,378.0	39.2	37.3	-62.14	-1,887.5	-277.1	490.1	424.1	66.00	7.426	
9,500.0	7,606.0	9,235.9	7,378.0	40.8	38.9	-62.04	-1,987.4	-277.1	488.5	419.7	68.87	7.094	
9,600.0	7,606.0	9,335.9	7,378.0	42.3	40.6	-61.95	-2,087.4	-277.1	487.0	415.3	71.75	6.788	
9,700.0	7,606.0	9,435.9	7,378.0	43.9	42.2	-61.85	-2,187.4	-277.1	485.5	410.8	74.63	6.505	
9,800.0	7,606.0	9,535.9	7,378.0	45.5	43.9	-61.75	-2,287.4	-277.1	483.9	406.4	77.52	6.242	
9,900.0	7,606.0	9,635.9	7,378.0	47.1	45.5	-61.65	-2,387.4	-277.1	482.4	402.0	80.42	5.998	
10,000.0	7,606.0	9,735.9	7,378.0	48.8	47.2	-61.56	-2,487.4	-277.1	480.8	397.5	83.32	5.771	
10,100.0	7,606.0	9,835.8	7,378.0	50.4	48.9	-61.46	-2,587.3	-277.1	479.3	393.1	86.22	5.559	
10,200.0	7,606.0	9,935.8	7,378.0	52.0	50.6	-61.36	-2,687.3	-277.1	477.8	388.7	89.13	5.361	
10,300.0	7,606.0	10,035.8	7,378.0	53.7	52.3	-61.26	-2,787.3	-277.1	476.2	384.2	92.03	5.175	
10,400.0	7,606.0	10,135.8	7,378.0	55.3	54.0	-61.15	-2,887.3	-277.1	474.7	379.8	94.94	5.000	
10,500.0	7,606.0	10,235.8	7,378.0	57.0	55.7	-61.05	-2,987.3	-277.1	473.2	375.4	97.84	4.836	
10,600.0	7,606.0	10,335.8	7,378.0	58.6	57.4	-60.95	-3,087.3	-277.1	471.7	370.9	100.74	4.682	
10,700.0	7,606.0	10,435.8	7,378.0	60.3	59.1	-60.85	-3,187.3	-277.1	470.1	366.5	103.64	4.536	
10,800.0	7,606.0	10,535.7	7,378.0	62.0	60.8	-60.74	-3,287.2	-277.1	468.6	362.1	106.54	4.398	
10,900.0	7,606.0	10,635.7	7,378.0	63.6	62.5	-60.64	-3,387.2	-277.1	467.1	357.7	109.44	4.268	
11,000.0	7,606.0	10,735.7	7,378.0	65.3	64.2	-60.53	-3,487.2	-277.1	465.6	353.2	112.33	4.145	
11,100.0	7,606.0	10,835.7	7,378.0	67.0	65.9	-60.43	-3,587.2	-277.1	464.1	348.8	115.21	4.028	
11,200.0	7,606.0	10,935.7	7,378.0	68.7	67.7	-60.32	-3,687.2	-277.1	462.5	344.4	118.10	3.917	
11,300.0	7,606.0	11,035.7	7,378.0	70.4	69.4	-60.21	-3,787.2	-277.1	461.0	340.0	120.98	3.811	
11,400.0	7,606.0	11,135.6	7,378.0	72.1	71.1	-60.10	-3,887.2	-277.1	459.5	335.7	123.85	3.710	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
11,500.0	7,606.0	11,235.6	7,378.0	73.8	72.8	-60.00	-3,987.1	-277.1	458.0	331.3	126.72	3.614	
11,600.0	7,606.0	11,335.6	7,378.0	75.5	74.5	-59.89	-4,087.1	-277.1	456.5	326.9	129.58	3.523	
11,700.0	7,606.0	11,435.6	7,378.0	77.2	76.3	-59.78	-4,187.1	-277.1	455.0	322.5	132.44	3.435	
11,800.0	7,606.0	11,535.6	7,378.0	78.9	78.0	-59.67	-4,287.1	-277.1	453.5	318.2	135.29	3.352	
11,900.0	7,606.0	11,635.6	7,378.0	80.6	79.7	-59.55	-4,387.1	-277.1	452.0	313.8	138.13	3.272	
12,000.0	7,606.0	11,735.6	7,378.0	82.3	81.4	-59.44	-4,487.1	-277.1	450.5	309.5	140.97	3.195	
12,100.0	7,606.0	11,835.5	7,378.0	84.0	83.2	-59.33	-4,587.0	-277.1	449.0	305.2	143.80	3.122	
12,200.0	7,606.0	11,935.5	7,378.0	85.7	84.9	-59.21	-4,687.0	-277.1	447.5	300.8	146.63	3.052	
12,300.0	7,606.0	12,035.5	7,378.0	87.4	86.6	-59.10	-4,787.0	-277.1	446.0	296.5	149.44	2.984	
12,400.0	7,606.0	12,135.5	7,378.0	89.2	88.4	-58.98	-4,887.0	-277.1	444.5	292.2	152.25	2.919	
12,500.0	7,606.0	12,235.5	7,378.0	90.9	90.1	-58.87	-4,987.0	-277.1	443.0	287.9	155.06	2.857	
12,600.0	7,606.0	12,335.5	7,378.0	92.6	91.8	-58.75	-5,087.0	-277.1	441.5	283.6	157.85	2.797	
12,700.0	7,606.0	12,435.4	7,378.0	94.3	93.6	-58.63	-5,187.0	-277.1	440.0	279.3	160.64	2.739	
12,800.0	7,606.0	12,535.4	7,378.0	96.0	95.3	-58.51	-5,286.9	-277.1	438.5	275.1	163.42	2.683	
12,900.0	7,606.0	12,635.4	7,378.0	97.8	97.0	-58.39	-5,386.9	-277.1	437.0	270.8	166.19	2.630	
13,000.0	7,606.0	12,735.4	7,378.0	99.5	98.8	-58.27	-5,486.9	-277.1	435.5	266.6	168.95	2.578	
13,100.0	7,606.0	12,835.4	7,378.0	101.2	100.5	-58.15	-5,586.9	-277.1	434.0	262.3	171.70	2.528	
13,200.0	7,606.0	12,935.4	7,378.0	102.9	102.3	-58.03	-5,686.9	-277.1	432.6	258.1	174.44	2.480	
13,300.0	7,606.0	13,035.4	7,378.0	104.7	104.0	-57.91	-5,786.9	-277.1	431.1	253.9	177.18	2.433	
13,400.0	7,606.0	13,135.3	7,378.0	106.4	105.7	-57.78	-5,886.8	-277.1	429.6	249.7	179.90	2.388	
13,500.0	7,606.0	13,235.3	7,378.0	108.1	107.5	-57.66	-5,986.8	-277.1	428.1	245.5	182.62	2.344	
13,600.0	7,606.0	13,335.3	7,378.0	109.8	109.2	-57.53	-6,086.8	-277.1	426.7	241.3	185.32	2.302	
13,700.0	7,606.0	13,435.3	7,378.0	111.6	111.0	-57.41	-6,186.8	-277.1	425.2	237.2	188.02	2.261	
13,800.0	7,606.0	13,535.3	7,378.0	113.3	112.7	-57.28	-6,286.8	-277.1	423.7	233.0	190.70	2.222	
13,900.0	7,606.0	13,635.3	7,378.0	115.0	114.4	-57.15	-6,386.8	-277.1	422.2	228.9	193.38	2.184	
14,000.0	7,606.0	13,735.3	7,378.0	116.8	116.2	-57.02	-6,486.8	-277.1	420.8	224.7	196.04	2.146	
14,100.0	7,606.0	13,835.2	7,378.0	118.5	117.9	-56.89	-6,586.7	-277.1	419.3	220.6	198.70	2.110	
14,183.2	7,606.0	13,918.4	7,378.0	119.9	119.4	-56.79	-6,669.9	-277.1	418.1	217.2	200.90	2.081 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3F-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	1.0	1.0	0.0	0.0	90.01	0.0	19.6	19.6						
100.0	100.0	101.0	101.0	0.2	0.2	90.01	0.0	19.6	19.6	19.3	0.31	64.119			
200.0	200.0	201.0	201.0	0.3	0.3	90.01	0.0	19.6	19.6	18.9	0.65	29.922			
300.0	300.0	301.0	301.0	0.5	0.5	90.01	0.0	19.6	19.6	18.6	1.00	19.515			
400.0	400.0	401.0	401.0	0.7	0.7	90.01	0.0	19.6	19.6	18.2	1.35	14.479			
500.0	500.0	501.0	501.0	0.8	0.9	90.01	0.0	19.6	19.6	17.9	1.70	11.509 CC, ES			
600.0	600.0	601.0	601.0	1.0	1.0	171.07	0.0	19.6	20.4	18.4	2.05	9.971			
700.0	700.0	701.0	701.0	1.2	1.2	172.08	0.0	19.6	23.0	20.6	2.40	9.602 SF			
800.0	799.9	800.9	800.9	1.4	1.4	173.33	0.0	19.6	27.4	24.6	2.75	9.962			
900.0	899.7	900.7	900.7	1.6	1.5	174.54	0.0	19.6	33.4	30.3	3.09	10.807			
1,000.0	999.4	1,000.4	1,000.4	1.8	1.7	175.57	0.0	19.6	41.3	37.8	3.44	11.993			
1,100.0	1,098.9	1,099.9	1,099.9	2.0	1.9	176.40	0.0	19.6	50.8	47.0	3.78	13.428			
1,200.0	1,198.3	1,199.3	1,199.3	2.2	2.1	177.04	0.0	19.6	61.7	57.6	4.13	14.950			
1,300.0	1,297.7	1,298.7	1,298.7	2.5	2.2	177.49	0.0	19.6	72.8	68.3	4.48	16.256			
1,400.0	1,397.1	1,398.1	1,398.1	2.7	2.4	177.82	0.0	19.6	83.8	79.0	4.83	17.374			
1,500.0	1,496.5	1,497.5	1,497.5	3.0	2.6	178.07	0.0	19.6	94.9	89.7	5.17	18.343			
1,600.0	1,595.8	1,596.8	1,596.8	3.2	2.8	178.27	0.0	19.6	106.0	100.4	5.52	19.190			
1,700.0	1,695.2	1,696.2	1,696.2	3.5	2.9	178.44	0.0	19.6	117.0	111.1	5.87	19.937			
1,800.0	1,794.6	1,795.6	1,795.6	3.7	3.1	178.57	0.0	19.6	128.1	121.9	6.22	20.601			
1,900.0	1,894.0	1,895.0	1,895.0	4.0	3.3	178.69	0.0	19.6	139.1	132.6	6.56	21.194			
2,000.0	1,993.4	1,994.4	1,994.4	4.2	3.5	178.78	0.0	19.6	150.2	143.3	6.91	21.728			
2,100.0	2,092.8	2,093.8	2,093.8	4.5	3.6	178.87	0.0	19.6	161.2	154.0	7.26	22.211			
2,200.0	2,192.2	2,193.2	2,193.2	4.7	3.8	178.94	0.0	19.6	172.3	164.7	7.61	22.650			
2,300.0	2,291.6	2,292.6	2,292.6	5.0	4.0	179.00	0.0	19.6	183.4	175.4	7.95	23.050			
2,400.0	2,390.9	2,391.9	2,391.9	5.2	4.2	179.06	0.0	19.6	194.4	186.1	8.30	23.417			
2,500.0	2,490.3	2,491.3	2,491.3	5.5	4.3	179.11	0.0	19.6	205.5	196.8	8.65	23.755			
2,600.0	2,589.7	2,590.7	2,590.7	5.7	4.5	179.16	0.0	19.6	216.5	207.5	9.00	24.066			
2,700.0	2,689.1	2,690.1	2,690.1	6.0	4.7	179.20	0.0	19.6	227.6	218.2	9.35	24.354			
2,800.0	2,788.5	2,789.5	2,789.5	6.3	4.8	179.23	0.0	19.6	238.7	229.0	9.69	24.622			
2,900.0	2,887.9	2,888.9	2,888.9	6.5	5.0	179.27	0.0	19.6	249.7	239.7	10.04	24.871			
3,000.0	2,987.3	2,988.3	2,988.3	6.8	5.2	179.30	0.0	19.6	260.8	250.4	10.39	25.103			
3,100.0	3,086.6	3,087.6	3,087.6	7.0	5.4	179.33	0.0	19.6	271.8	261.1	10.74	25.321			
3,200.0	3,186.0	3,187.0	3,187.0	7.3	5.5	179.35	0.0	19.6	282.9	271.8	11.08	25.525			
3,300.0	3,285.4	3,286.4	3,286.4	7.6	5.7	179.38	0.0	19.6	293.9	282.5	11.43	25.716			
3,400.0	3,384.8	3,385.8	3,385.8	7.8	5.9	179.40	0.0	19.6	305.0	293.2	11.78	25.896			
3,500.0	3,484.2	3,485.2	3,485.2	8.1	6.1	179.42	0.0	19.6	316.1	303.9	12.13	26.066			
3,600.0	3,583.6	3,584.6	3,584.6	8.3	6.2	179.44	0.0	19.6	327.1	314.7	12.47	26.226			
3,700.0	3,683.0	3,684.0	3,684.0	8.6	6.4	179.46	0.0	19.6	338.2	325.4	12.82	26.378			
3,800.0	3,782.4	3,783.4	3,783.4	8.8	6.6	179.48	0.0	19.6	349.2	336.1	13.17	26.522			
3,900.0	3,881.7	3,882.7	3,882.7	9.1	6.8	179.49	0.0	19.6	360.3	346.8	13.52	26.658			
4,000.0	3,981.1	3,982.1	3,982.1	9.4	6.9	179.51	0.0	19.6	371.4	357.5	13.86	26.787			
4,100.0	4,080.5	4,081.5	4,081.5	9.6	7.1	179.52	0.0	19.6	382.4	368.2	14.21	26.910			
4,200.0	4,179.9	4,180.9	4,180.9	9.9	7.3	179.54	0.0	19.6	393.5	378.9	14.56	27.028			
4,300.0	4,279.3	4,280.3	4,280.3	10.1	7.4	179.55	0.0	19.6	404.5	389.6	14.91	27.139			
4,400.0	4,378.7	4,379.7	4,379.7	10.4	7.6	179.56	0.0	19.6	415.6	400.4	15.25	27.246			
4,500.0	4,478.1	4,479.1	4,479.1	10.7	7.8	179.57	0.0	19.6	426.7	411.1	15.60	27.348			
4,600.0	4,577.4	4,578.4	4,578.4	10.9	8.0	179.58	0.0	19.6	437.7	421.8	15.95	27.446			
4,700.0	4,676.8	4,677.8	4,677.8	11.2	8.1	179.59	0.0	19.6	448.8	432.5	16.30	27.539			
4,800.0	4,776.2	4,777.2	4,777.2	11.4	8.3	179.60	0.0	19.6	459.8	443.2	16.64	27.628			
4,900.0	4,875.6	4,876.6	4,876.6	11.7	8.5	179.61	0.0	19.6	470.9	453.9	16.99	27.714			
5,000.0	4,975.0	4,976.0	4,976.0	12.0	8.7	179.62	0.0	19.6	482.0	464.6	17.34	27.796			
5,100.0	5,074.4	5,075.4	5,075.4	12.2	8.8	179.63	0.0	19.6	493.0	475.3	17.69	27.876			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3G-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	98.23	-3.6	25.2	25.4					
100.0	100.0	101.0	101.0	0.2	0.2	98.23	-3.6	25.2	25.4	0.31	83.297			
200.0	200.0	201.0	201.0	0.3	0.3	98.23	-3.6	25.2	25.4	0.65	38.872			
300.0	300.0	301.0	301.0	0.5	0.5	98.23	-3.6	25.2	25.4	1.00	25.351			
366.3	366.3	367.3	367.3	0.6	0.6	98.23	-3.6	25.2	25.4	1.24	20.599 CC			
400.0	400.0	401.0	401.0	0.7	0.7	98.23	-3.6	25.2	25.4	1.35	18.809 ES			
500.0	500.0	500.6	500.6	0.8	0.9	97.41	-3.4	26.0	26.2	1.70	15.425			
600.0	600.0	600.0	600.0	1.0	1.0	176.03	-2.6	28.5	29.5	2.05	14.406 SF			
700.0	700.0	699.3	699.2	1.2	1.2	173.68	-1.3	32.7	36.2	2.40	15.095			
800.0	799.9	798.5	798.2	1.4	1.4	171.75	0.4	38.2	46.1	2.74	16.786			
900.0	899.7	897.8	897.3	1.6	1.6	170.70	2.2	44.1	57.9	3.09	18.740			
1,000.0	999.4	996.8	996.2	1.8	1.8	170.24	4.0	49.9	71.5	3.44	20.803			
1,100.0	1,098.9	1,095.7	1,094.8	2.0	2.0	170.12	5.7	55.7	86.8	3.78	22.944			
1,200.0	1,198.3	1,194.3	1,193.2	2.2	2.2	170.18	7.5	61.5	103.4	4.13	25.037			
1,300.0	1,297.7	1,292.9	1,291.6	2.5	2.4	170.24	9.3	67.3	120.2	4.48	26.817			
1,400.0	1,397.1	1,391.5	1,390.0	2.7	2.6	170.28	11.1	73.1	136.9	4.83	28.339			
1,500.0	1,496.5	1,490.0	1,488.4	3.0	2.8	170.31	12.9	78.9	153.6	5.18	29.654			
1,600.0	1,595.8	1,588.6	1,586.8	3.2	3.0	170.34	14.7	84.6	170.4	5.53	30.802			
1,700.0	1,695.2	1,687.2	1,685.2	3.5	3.2	170.36	16.4	90.4	187.1	5.88	31.812			
1,800.0	1,794.6	1,785.8	1,783.6	3.7	3.4	170.38	18.2	96.2	203.8	6.23	32.709			
1,900.0	1,894.0	1,884.4	1,882.0	4.0	3.6	170.40	20.0	102.0	220.6	6.58	33.510			
2,000.0	1,993.4	1,983.0	1,980.4	4.2	3.8	170.41	21.8	107.8	237.3	6.93	34.230			
2,100.0	2,092.8	2,081.6	2,078.9	4.5	4.0	170.42	23.6	113.6	254.0	7.28	34.880			
2,200.0	2,192.2	2,180.2	2,177.3	4.7	4.2	170.43	25.3	119.4	270.8	7.63	35.470			
2,300.0	2,291.6	2,278.8	2,275.7	5.0	4.4	170.44	27.1	125.2	287.5	7.98	36.009			
2,400.0	2,390.9	2,377.4	2,374.1	5.2	4.6	170.45	28.9	131.0	304.2	8.33	36.502			
2,500.0	2,490.3	2,475.9	2,472.5	5.5	4.8	170.46	30.7	136.7	321.0	8.69	36.955			
2,600.0	2,589.7	2,574.5	2,570.9	5.7	5.0	170.46	32.5	142.5	337.7	9.04	37.373			
2,700.0	2,689.1	2,673.1	2,669.3	6.0	5.2	170.47	34.2	148.3	354.4	9.39	37.759			
2,800.0	2,788.5	2,771.7	2,767.7	6.3	5.4	170.48	36.0	154.1	371.2	9.74	38.118			
2,900.0	2,887.9	2,870.3	2,866.1	6.5	5.6	170.48	37.8	159.9	387.9	10.09	38.451			
3,000.0	2,987.3	2,968.9	2,964.5	6.8	5.8	170.49	39.6	165.7	404.6	10.44	38.762			
3,100.0	3,086.6	3,067.5	3,062.9	7.0	6.0	170.49	41.4	171.5	421.4	10.79	39.053			
3,200.0	3,186.0	3,166.1	3,161.3	7.3	6.2	170.49	43.2	177.3	438.1	11.14	39.325			
3,300.0	3,285.4	3,264.7	3,259.7	7.6	6.4	170.50	44.9	183.1	454.8	11.49	39.581			
3,400.0	3,384.8	3,363.3	3,358.1	7.8	6.6	170.50	46.7	188.9	471.6	11.84	39.822			
3,500.0	3,484.2	3,461.8	3,456.5	8.1	6.8	170.50	48.5	194.6	488.3	12.19	40.049			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3H-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	30.8	30.8					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	30.8	30.8	30.5	0.31	100.759		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	30.8	30.8	30.1	0.65	47.021		
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	30.8	30.8	29.8	1.00	30.666		
332.0	332.0	333.0	333.0	0.6	0.6	90.00	0.0	30.8	30.8	29.7	1.12	27.596 CC		
400.0	400.0	400.7	400.7	0.7	0.7	89.93	0.0	31.0	31.0	29.6	1.35	22.924 ES		
500.0	500.0	500.0	500.0	0.8	0.9	89.44	0.3	32.7	32.7	31.0	1.70	19.235		
600.0	600.0	599.5	599.4	1.0	1.0	169.52	0.9	36.1	37.0	35.0	2.05	18.084 SF		
700.0	700.0	698.5	698.3	1.2	1.2	169.16	1.7	41.2	44.8	42.4	2.39	18.695		
800.0	799.9	797.0	796.5	1.4	1.4	169.02	2.8	48.0	55.9	53.2	2.74	20.403		
900.0	899.7	894.9	894.0	1.6	1.6	168.99	4.2	56.3	70.4	67.3	3.08	22.838		
1,000.0	999.4	992.3	990.9	1.8	1.9	169.04	5.8	66.2	88.3	84.8	3.43	25.761		
1,100.0	1,098.9	1,090.2	1,088.3	2.0	2.1	169.19	7.5	76.7	108.3	104.5	3.77	28.727		
1,200.0	1,198.3	1,187.9	1,185.5	2.2	2.3	169.42	9.2	87.1	129.6	125.5	4.11	31.503		
1,300.0	1,297.7	1,285.6	1,282.6	2.5	2.6	169.61	10.9	97.5	151.0	146.6	4.46	33.858		
1,400.0	1,397.1	1,383.3	1,379.7	2.7	2.8	169.75	12.7	107.9	172.5	167.7	4.81	35.872		
1,500.0	1,496.5	1,481.0	1,476.8	3.0	3.0	169.86	14.4	118.3	193.9	188.8	5.16	37.614		
1,600.0	1,595.8	1,578.6	1,573.9	3.2	3.3	169.95	16.1	128.7	215.4	209.9	5.50	39.135		
1,700.0	1,695.2	1,676.3	1,671.0	3.5	3.5	170.02	17.8	139.1	236.8	231.0	5.85	40.475		
1,800.0	1,794.6	1,774.0	1,768.1	3.7	3.8	170.08	19.5	149.5	258.3	252.1	6.20	41.665		
1,900.0	1,894.0	1,871.7	1,865.2	4.0	4.0	170.13	21.2	159.9	279.7	273.1	6.55	42.727		
2,000.0	1,993.4	1,969.3	1,962.3	4.2	4.3	170.17	22.9	170.3	301.1	294.2	6.89	43.682		
2,100.0	2,092.8	2,067.0	2,059.4	4.5	4.5	170.21	24.6	180.7	322.6	315.3	7.24	44.545		
2,200.0	2,192.2	2,164.7	2,156.5	4.7	4.8	170.24	26.3	191.1	344.0	336.4	7.59	45.329		
2,300.0	2,291.6	2,262.3	2,253.6	5.0	5.0	170.27	28.0	201.5	365.5	357.5	7.94	46.044		
2,400.0	2,390.9	2,360.0	2,350.7	5.2	5.3	170.29	29.7	211.9	386.9	378.6	8.29	46.698		
2,500.0	2,490.3	2,457.7	2,447.8	5.5	5.5	170.32	31.4	222.4	408.3	399.7	8.63	47.300		
2,600.0	2,589.7	2,555.4	2,544.9	5.7	5.8	170.34	33.1	232.8	429.8	420.8	8.98	47.855		
2,700.0	2,689.1	2,653.0	2,642.0	6.0	6.0	170.36	34.9	243.2	451.2	441.9	9.33	48.368		
2,800.0	2,788.5	2,750.7	2,739.1	6.3	6.3	170.37	36.6	253.6	472.7	463.0	9.68	48.845		
2,900.0	2,887.9	2,848.4	2,836.2	6.5	6.5	170.39	38.3	264.0	494.1	484.1	10.03	49.288		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3I-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	1.0	1.0	0.0	0.0	94.65	-3.6	44.8	44.9					
100.0	100.0	101.0	101.0	0.2	0.2	94.65	-3.6	44.8	44.9	44.6	0.31	147.043		
200.0	200.0	201.0	201.0	0.3	0.3	94.65	-3.6	44.8	44.9	44.3	0.65	68.618		
300.0	300.0	301.7	301.7	0.5	0.5	95.17	-4.0	43.9	44.1	43.1	1.01	43.858		
400.0	400.0	402.3	402.3	0.7	0.7	96.82	-5.0	41.4	41.8	40.4	1.36	30.685		
500.0	500.0	502.9	502.7	0.8	0.9	100.00	-6.6	37.3	37.9	36.2	1.72	22.025		
600.0	600.0	603.2	602.9	1.0	1.1	-173.85	-8.8	31.6	33.7	31.6	2.07	16.272		
700.0	700.0	703.5	702.8	1.2	1.3	-165.34	-11.7	24.2	30.3	27.9	2.45	12.382		
800.0	799.9	803.6	802.5	1.4	1.5	-153.57	-15.3	15.2	28.4	25.5	2.86	9.920		
845.1	844.9	848.7	847.3	1.5	1.6	-147.42	-17.1	10.6	28.1	25.1	3.06	9.189 CC, ES		
900.0	899.7	903.6	901.8	1.6	1.8	-139.62	-19.5	4.6	28.5	25.2	3.31	8.595		
1,000.0	999.4	1,003.4	1,000.8	1.8	2.1	-125.95	-24.3	-7.6	31.1	27.3	3.81	8.164 SF		
1,100.0	1,098.9	1,103.0	1,099.3	2.0	2.4	-114.66	-29.7	-21.3	36.1	31.8	4.33	8.337		
1,200.0	1,198.3	1,202.5	1,197.4	2.2	2.7	-105.87	-35.7	-36.6	42.9	38.1	4.86	8.834		
1,300.0	1,297.7	1,301.7	1,294.9	2.5	3.0	-97.94	-42.4	-53.5	51.2	45.8	5.39	9.498		
1,400.0	1,397.1	1,400.5	1,391.8	2.7	3.4	-90.87	-49.6	-71.8	60.9	55.0	5.90	10.332		
1,500.0	1,496.5	1,499.0	1,487.9	3.0	3.8	-84.71	-57.4	-91.6	72.4	66.0	6.39	11.330		
1,600.0	1,595.8	1,597.0	1,583.2	3.2	4.2	-79.40	-65.8	-112.9	85.5	78.7	6.86	12.474		
1,700.0	1,695.2	1,695.3	1,678.4	3.5	4.7	-74.94	-74.7	-135.5	100.2	92.9	7.30	13.719		
1,800.0	1,794.6	1,793.9	1,774.0	3.7	5.1	-71.58	-83.6	-158.2	115.4	107.7	7.75	14.899		
1,900.0	1,894.0	1,892.5	1,869.5	4.0	5.6	-69.00	-92.6	-181.0	130.9	122.7	8.19	15.987		
2,000.0	1,993.4	1,991.2	1,965.1	4.2	6.0	-66.98	-101.6	-203.7	146.6	138.0	8.63	16.986		
2,100.0	2,092.8	2,089.8	2,060.7	4.5	6.5	-65.34	-110.5	-226.5	162.5	153.4	9.08	17.901		
2,200.0	2,192.2	2,188.5	2,156.2	4.7	7.0	-64.00	-119.5	-249.2	178.5	169.0	9.52	18.740		
2,300.0	2,291.6	2,287.1	2,251.8	5.0	7.4	-62.88	-128.5	-272.0	194.5	184.6	9.97	19.509		
2,400.0	2,390.9	2,385.7	2,347.3	5.2	7.9	-61.92	-137.5	-294.7	210.7	200.2	10.42	20.216		
2,500.0	2,490.3	2,484.4	2,442.9	5.5	8.3	-61.11	-146.4	-317.5	226.8	215.9	10.87	20.867		
2,600.0	2,589.7	2,583.0	2,538.4	5.7	8.8	-60.40	-155.4	-340.2	243.0	231.7	11.32	21.469		
2,700.0	2,689.1	2,681.6	2,634.0	6.0	9.3	-59.78	-164.4	-363.0	259.2	247.5	11.77	22.026		
2,800.0	2,788.5	2,780.3	2,729.6	6.3	9.7	-59.24	-173.3	-385.7	275.5	263.3	12.22	22.543		
2,900.0	2,887.9	2,878.9	2,825.1	6.5	10.2	-58.75	-182.3	-408.5	291.8	279.1	12.67	23.024		
3,000.0	2,987.3	2,977.6	2,920.7	6.8	10.7	-58.32	-191.3	-431.3	308.1	295.0	13.13	23.472		
3,100.0	3,086.6	3,076.2	3,016.2	7.0	11.1	-57.93	-200.2	-454.0	324.4	310.8	13.58	23.891		
3,200.0	3,186.0	3,174.8	3,111.8	7.3	11.6	-57.57	-209.2	-476.8	340.7	326.7	14.03	24.283		
3,300.0	3,285.4	3,273.5	3,207.3	7.6	12.1	-57.25	-218.2	-499.5	357.1	342.6	14.49	24.651		
3,400.0	3,384.8	3,372.1	3,302.9	7.8	12.5	-56.96	-227.1	-522.3	373.4	358.5	14.94	24.996		
3,500.0	3,484.2	3,470.7	3,398.5	8.1	13.0	-56.69	-236.1	-545.0	389.8	374.4	15.39	25.322		
3,600.0	3,583.6	3,569.4	3,494.0	8.3	13.5	-56.45	-245.1	-567.8	406.1	390.3	15.85	25.629		
3,700.0	3,683.0	3,668.0	3,589.6	8.6	13.9	-56.22	-254.0	-590.5	422.5	406.2	16.30	25.918		
3,800.0	3,782.4	3,766.6	3,685.1	8.8	14.4	-56.01	-263.0	-613.3	438.9	422.1	16.76	26.193		
3,900.0	3,881.7	3,865.3	3,780.7	9.1	14.9	-55.81	-272.0	-636.0	455.3	438.1	17.21	26.452		
4,000.0	3,981.1	3,963.9	3,876.2	9.4	15.3	-55.63	-281.0	-658.8	471.7	454.0	17.67	26.699		
4,100.0	4,080.5	4,062.6	3,971.8	9.6	15.8	-55.46	-289.9	-681.6	488.1	469.9	18.12	26.933		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3J-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	50.4	50.4					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	50.4	50.4	50.1	0.31	164.878		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	50.4	50.4	49.7	0.65	76.943		
300.0	300.0	301.4	301.4	0.5	0.5	90.11	-0.1	50.2	50.2	49.2	1.00	49.938		
400.0	400.0	402.2	402.1	0.7	0.7	91.07	-0.9	48.6	48.6	47.2	1.36	35.807		
500.0	500.0	502.8	502.7	0.8	0.9	93.17	-2.5	45.4	45.5	43.8	1.71	26.540		
600.0	600.0	603.4	603.1	1.0	1.1	177.62	-4.9	40.6	41.9	39.8	2.06	20.287		
700.0	700.0	703.8	703.3	1.2	1.3	-176.41	-8.1	34.3	38.8	36.4	2.43	15.989		
800.0	799.9	804.1	803.2	1.4	1.5	-168.03	-12.1	26.5	36.8	34.0	2.81	13.086		
875.8	875.6	880.1	878.8	1.5	1.7	-160.26	-15.6	19.5	36.3	33.2	3.13	11.601 CC		
900.0	899.7	904.3	902.8	1.6	1.7	-157.59	-16.8	17.1	36.3	33.1	3.23	11.244 ES		
1,000.0	999.4	1,004.3	1,002.1	1.8	2.0	-146.20	-22.4	6.1	37.9	34.2	3.70	10.258		
1,100.0	1,098.9	1,104.1	1,100.9	2.0	2.3	-135.39	-28.7	-6.3	41.8	37.6	4.21	9.937 SF		
1,200.0	1,198.3	1,203.7	1,199.3	2.2	2.6	-125.92	-35.7	-20.3	47.7	43.0	4.76	10.036		
1,300.0	1,297.7	1,303.0	1,297.1	2.5	2.9	-117.01	-43.6	-35.7	54.9	49.6	5.32	10.321		
1,400.0	1,397.1	1,402.1	1,394.3	2.7	3.3	-108.81	-52.1	-52.6	63.6	57.7	5.89	10.807		
1,500.0	1,496.5	1,500.9	1,491.1	3.0	3.7	-101.57	-61.3	-70.9	74.0	67.5	6.43	11.496		
1,600.0	1,595.8	1,600.0	1,587.9	3.2	4.0	-95.98	-70.7	-89.3	85.3	78.3	6.95	12.264		
1,700.0	1,695.2	1,699.0	1,684.8	3.5	4.4	-91.73	-80.0	-107.8	97.2	89.8	7.46	13.032		
1,800.0	1,794.6	1,798.1	1,781.6	3.7	4.8	-88.42	-89.4	-126.3	109.6	101.6	7.96	13.767		
1,900.0	1,894.0	1,897.2	1,878.5	4.0	5.2	-85.79	-98.8	-144.8	122.3	113.8	8.46	14.457		
2,000.0	1,993.4	1,996.2	1,975.4	4.2	5.6	-83.65	-108.1	-163.3	135.1	126.2	8.95	15.099		
2,100.0	2,092.8	2,095.3	2,072.2	4.5	6.0	-81.89	-117.5	-181.8	148.1	138.7	9.44	15.693		
2,200.0	2,192.2	2,194.3	2,169.1	4.7	6.4	-80.41	-126.8	-200.3	161.3	151.3	9.93	16.242		
2,300.0	2,291.6	2,293.4	2,266.0	5.0	6.8	-79.15	-136.2	-218.8	174.5	164.1	10.42	16.748		
2,400.0	2,390.9	2,392.4	2,362.8	5.2	7.2	-78.08	-145.5	-237.3	187.8	176.9	10.91	17.216		
2,500.0	2,490.3	2,491.5	2,459.7	5.5	7.6	-77.14	-154.9	-255.7	201.1	189.7	11.40	17.649		
2,600.0	2,589.7	2,590.5	2,556.6	5.7	8.0	-76.32	-164.2	-274.2	214.5	202.6	11.88	18.050		
2,700.0	2,689.1	2,689.6	2,653.4	6.0	8.4	-75.60	-173.6	-292.7	227.9	215.6	12.37	18.422		
2,800.0	2,788.5	2,788.7	2,750.3	6.3	8.8	-74.95	-183.0	-311.2	241.4	228.5	12.86	18.769		
2,900.0	2,887.9	2,887.7	2,847.2	6.5	9.2	-74.38	-192.3	-329.7	254.9	241.5	13.35	19.092		
3,000.0	2,987.3	2,986.8	2,944.0	6.8	9.6	-73.86	-201.7	-348.2	268.4	254.6	13.84	19.394		
3,100.0	3,086.6	3,085.8	3,040.9	7.0	10.0	-73.40	-211.0	-366.7	281.9	267.6	14.33	19.676		
3,200.0	3,186.0	3,184.9	3,137.7	7.3	10.4	-72.97	-220.4	-385.2	295.5	280.7	14.82	19.940		
3,300.0	3,285.4	3,283.9	3,234.6	7.6	10.8	-72.58	-229.7	-403.6	309.0	293.7	15.31	20.189		
3,400.0	3,384.8	3,383.0	3,331.5	7.8	11.2	-72.23	-239.1	-422.1	322.6	306.8	15.80	20.423		
3,500.0	3,484.2	3,482.0	3,428.3	8.1	11.6	-71.90	-248.4	-440.6	336.2	319.9	16.29	20.643		
3,600.0	3,583.6	3,581.1	3,525.2	8.3	12.0	-71.60	-257.8	-459.1	349.8	333.0	16.78	20.851		
3,700.0	3,683.0	3,680.2	3,622.1	8.6	12.4	-71.32	-267.2	-477.6	363.4	346.1	17.27	21.047		
3,800.0	3,782.4	3,779.2	3,718.9	8.8	12.8	-71.07	-276.5	-496.1	377.0	359.3	17.76	21.233		
3,900.0	3,881.7	3,878.3	3,815.8	9.1	13.2	-70.83	-285.9	-514.6	390.6	372.4	18.25	21.409		
4,000.0	3,981.1	3,977.3	3,912.7	9.4	13.6	-70.60	-295.2	-533.1	404.3	385.5	18.74	21.576		
4,100.0	4,080.5	4,076.4	4,009.5	9.6	14.1	-70.39	-304.6	-551.5	417.9	398.7	19.23	21.735		
4,200.0	4,179.9	4,175.4	4,106.4	9.9	14.5	-70.20	-313.9	-570.0	431.5	411.8	19.72	21.887		
4,300.0	4,279.3	4,274.5	4,203.2	10.1	14.9	-70.01	-323.3	-588.5	445.2	425.0	20.21	22.031		
4,400.0	4,378.7	4,373.5	4,300.1	10.4	15.3	-69.84	-332.6	-607.0	458.8	438.1	20.70	22.168		
4,500.0	4,478.1	4,472.6	4,397.0	10.7	15.7	-69.68	-342.0	-625.5	472.5	451.3	21.19	22.299		
4,600.0	4,577.4	4,571.7	4,493.8	10.9	16.1	-69.52	-351.3	-644.0	486.1	464.4	21.68	22.424		
4,700.0	4,676.8	4,670.7	4,590.7	11.2	16.5	-69.38	-360.7	-662.5	499.8	477.6	22.17	22.544		
7,400.0	7,343.2	7,866.7	7,378.0	18.0	26.0	84.93	21.4	-1,194.5	480.8	454.1	26.71	17.999		
7,500.0	7,421.8	7,802.4	7,376.4	18.3	26.0	81.68	-42.9	-1,194.2	474.0	447.3	26.76	17.712		
7,500.7	7,422.4	7,801.9	7,376.4	18.3	26.0	81.65	-43.4	-1,194.2	474.0	447.3	26.76	17.711		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design											S32-T2N-R68W (File) - File 3J-32H-K268 - Hz - Plan #1			Offset Site Error:		0.0 ft
Survey Program:											0-Geolink MWD			Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor				
7,600.0	7,488.8	7,737.4	7,368.0	18.6	26.0	76.45	-107.3	-1,192.6	479.9	453.0	26.83	17.882				
7,700.0	7,542.0	7,675.7	7,353.5	19.0	26.0	70.44	-167.3	-1,189.8	495.7	468.9	26.79	18.501				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	1.0	1.0	0.0	0.0	93.72	-3.6	56.0	56.1				
100.0	100.0	101.0	101.0	0.2	0.2	93.72	-3.6	56.0	56.1	55.8	0.31	183.585	
200.0	200.0	201.0	201.0	0.3	0.3	93.72	-3.6	56.0	56.1	55.4	0.65	85.673	
300.0	300.0	301.0	301.0	0.5	0.5	93.72	-3.6	56.0	56.1	55.1	1.00	55.874	
400.0	400.0	401.4	401.4	0.7	0.7	93.87	-3.8	55.8	55.9	54.5	1.35	41.300	
500.0	500.0	502.1	502.1	0.8	0.9	95.04	-4.8	54.3	54.5	52.8	1.71	31.977	
600.0	600.0	602.8	602.7	1.0	1.0	178.27	-6.8	51.4	52.7	50.7	2.06	25.627	
700.0	700.0	703.4	703.1	1.2	1.2	-177.65	-9.9	47.0	51.6	49.2	2.42	21.348	
773.7	773.6	777.5	777.1	1.3	1.4	-173.70	-12.8	42.9	51.3	48.6	2.69	19.087 CC	
800.0	799.9	803.8	803.4	1.4	1.4	-172.11	-13.9	41.2	51.3	48.5	2.78	18.432 ES	
900.0	899.7	904.2	903.3	1.6	1.6	-165.40	-19.0	34.0	52.3	49.2	3.17	16.497	
1,000.0	999.4	1,004.3	1,002.9	1.8	1.9	-158.02	-25.0	25.3	54.9	51.3	3.59	15.306	
1,100.0	1,098.9	1,104.3	1,102.1	2.0	2.1	-150.59	-32.0	15.3	59.3	55.3	4.04	14.686	
1,200.0	1,198.3	1,204.1	1,200.9	2.2	2.4	-143.50	-40.0	3.8	65.4	60.9	4.53	14.423	
1,300.0	1,297.7	1,303.6	1,299.2	2.5	2.7	-136.48	-48.8	-8.9	72.3	67.2	5.06	14.276	
1,400.0	1,397.1	1,402.9	1,397.3	2.7	3.0	-130.50	-57.9	-21.9	80.1	74.5	5.60	14.294	
1,500.0	1,496.5	1,502.3	1,495.4	3.0	3.3	-125.61	-67.0	-34.9	88.6	82.5	6.14	14.420	
1,600.0	1,595.8	1,601.7	1,593.5	3.2	3.6	-121.61	-76.0	-47.9	97.6	91.0	6.69	14.605	
1,700.0	1,695.2	1,701.1	1,691.6	3.5	4.0	-118.29	-85.1	-60.9	107.1	99.8	7.22	14.822	
1,800.0	1,794.6	1,800.5	1,789.7	3.7	4.3	-115.51	-94.2	-73.9	116.8	109.0	7.76	15.052	
1,900.0	1,894.0	1,899.8	1,887.8	4.0	4.6	-113.17	-103.2	-86.9	126.8	118.5	8.29	15.284	
2,000.0	1,993.4	1,999.2	1,985.9	4.2	4.9	-111.17	-112.3	-99.9	136.9	128.1	8.83	15.511	
2,100.0	2,092.8	2,098.6	2,084.0	4.5	5.2	-109.45	-121.4	-112.9	147.2	137.8	9.36	15.731	
2,200.0	2,192.2	2,198.0	2,182.1	4.7	5.5	-107.95	-130.4	-125.9	157.6	147.7	9.89	15.941	
2,300.0	2,291.6	2,297.3	2,280.2	5.0	5.9	-106.64	-139.5	-138.9	168.1	157.7	10.41	16.141	
2,400.0	2,390.9	2,396.7	2,378.4	5.2	6.2	-105.48	-148.5	-151.9	178.7	167.7	10.94	16.330	
2,500.0	2,490.3	2,496.1	2,476.5	5.5	6.5	-104.45	-157.6	-164.9	189.3	177.8	11.47	16.509	
2,600.0	2,589.7	2,595.5	2,574.6	5.7	6.8	-103.54	-166.7	-177.9	200.0	188.0	11.99	16.677	
2,700.0	2,689.1	2,694.9	2,672.7	6.0	7.2	-102.71	-175.7	-190.9	210.7	198.2	12.52	16.836	
2,800.0	2,788.5	2,794.2	2,770.8	6.3	7.5	-101.97	-184.8	-203.9	221.5	208.5	13.04	16.986	
2,900.0	2,887.9	2,893.6	2,868.9	6.5	7.8	-101.29	-193.9	-216.9	232.3	218.7	13.56	17.127	
3,000.0	2,987.3	2,993.0	2,967.0	6.8	8.1	-100.68	-202.9	-230.0	243.1	229.1	14.09	17.261	
3,100.0	3,086.6	3,092.4	3,065.1	7.0	8.5	-100.11	-212.0	-243.0	254.0	239.4	14.61	17.387	
3,200.0	3,186.0	3,191.8	3,163.2	7.3	8.8	-99.60	-221.1	-256.0	264.9	249.8	15.13	17.506	
3,300.0	3,285.4	3,291.1	3,261.3	7.6	9.1	-99.12	-230.1	-269.0	275.8	260.1	15.65	17.618	
3,400.0	3,384.8	3,390.5	3,359.4	7.8	9.4	-98.68	-239.2	-282.0	286.7	270.5	16.18	17.725	
3,500.0	3,484.2	3,489.9	3,457.5	8.1	9.8	-98.27	-248.2	-295.0	297.7	281.0	16.70	17.826	
3,600.0	3,583.6	3,589.3	3,555.6	8.3	10.1	-97.90	-257.3	-308.0	308.6	291.4	17.22	17.922	
3,700.0	3,683.0	3,688.6	3,653.7	8.6	10.4	-97.54	-266.4	-321.0	319.6	301.8	17.74	18.014	
3,800.0	3,782.4	3,788.0	3,751.8	8.8	10.7	-97.21	-275.4	-334.0	330.5	312.3	18.26	18.100	
3,900.0	3,881.7	3,887.4	3,850.0	9.1	11.1	-96.91	-284.5	-347.0	341.5	322.7	18.78	18.183	
4,000.0	3,981.1	3,986.8	3,948.1	9.4	11.4	-96.62	-293.6	-360.0	352.5	333.2	19.30	18.262	
4,100.0	4,080.5	4,086.2	4,046.2	9.6	11.7	-96.35	-302.6	-373.0	363.5	343.7	19.82	18.337	
4,200.0	4,179.9	4,185.5	4,144.3	9.9	12.1	-96.09	-311.7	-386.0	374.5	354.2	20.35	18.409	
4,300.0	4,279.3	4,284.9	4,242.4	10.1	12.4	-95.85	-320.8	-399.0	385.6	364.7	20.87	18.477	
4,400.0	4,378.7	4,384.3	4,340.5	10.4	12.7	-95.62	-329.8	-412.0	396.6	375.2	21.39	18.543	
4,500.0	4,478.1	4,483.7	4,438.6	10.7	13.0	-95.41	-338.9	-425.0	407.6	385.7	21.91	18.606	
4,600.0	4,577.4	4,583.1	4,536.7	10.9	13.4	-95.20	-347.9	-438.0	418.6	396.2	22.43	18.666	
4,700.0	4,676.8	4,682.4	4,634.8	11.2	13.7	-95.01	-357.0	-451.0	429.7	406.7	22.95	18.724	
4,800.0	4,776.2	4,781.8	4,732.9	11.4	14.0	-94.83	-366.1	-464.0	440.7	417.3	23.47	18.779	
4,900.0	4,875.6	4,881.2	4,831.0	11.7	14.3	-94.65	-375.1	-477.0	451.8	427.8	23.99	18.832	
5,000.0	4,975.0	4,980.6	4,929.1	12.0	14.7	-94.48	-384.2	-490.0	462.8	438.3	24.51	18.883	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,074.4	5,079.9	5,027.2	12.2	15.0	-94.33	-393.3	-503.0	473.9	448.8	25.03	18.933		
5,200.0	5,173.8	5,179.3	5,125.3	12.5	15.3	-94.17	-402.3	-516.0	484.9	459.4	25.55	18.980		
5,300.0	5,273.1	5,278.7	5,223.4	12.7	15.7	-94.03	-411.4	-529.0	496.0	469.9	26.07	19.026		
7,200.0	7,160.5	8,118.4	7,606.0	17.7	21.4	109.17	98.1	-844.8	468.7	437.3	31.37	14.941		
7,300.0	7,255.2	8,088.1	7,606.0	17.8	21.3	128.90	67.8	-844.8	376.4	343.8	32.51	11.578		
7,400.0	7,343.2	8,041.7	7,606.0	18.0	21.2	134.60	21.4	-844.8	292.3	260.7	31.62	9.243		
7,500.0	7,421.8	7,961.8	7,603.4	18.3	21.1	130.04	-58.4	-844.5	218.7	189.0	29.72	7.361		
7,600.0	7,488.8	7,877.2	7,589.3	18.6	21.1	117.27	-141.7	-842.6	154.0	125.5	28.52	5.398		
7,700.0	7,542.0	7,802.7	7,566.9	19.0	21.1	96.74	-212.7	-839.6	110.4	82.0	28.40	3.888		
7,749.8	7,562.9	7,768.0	7,553.4	19.3	21.2	83.73	-244.6	-837.8	104.0	75.7	28.30	3.676 SF		
7,800.0	7,579.9	7,734.3	7,538.4	19.6	21.2	70.11	-274.8	-835.8	110.2	82.6	27.59	3.994		
7,900.0	7,601.2	7,669.7	7,505.0	20.2	21.3	46.96	-329.8	-831.4	148.1	123.2	24.90	5.948		
8,000.0	7,606.0	7,608.0	7,467.6	21.0	21.4	32.77	-378.5	-826.5	199.4	176.5	22.86	8.724		
8,100.0	7,606.0	7,550.0	7,427.8	21.9	21.5	25.43	-420.4	-821.2	260.5	239.0	21.51	12.112		
8,200.0	7,606.0	7,509.3	7,397.5	22.9	21.6	21.29	-447.3	-817.2	330.2	309.3	20.88	15.816		
8,300.0	7,606.0	7,471.5	7,367.7	24.0	21.7	18.08	-470.2	-813.2	406.2	385.8	20.44	19.870		
8,400.0	7,606.0	7,450.0	7,350.1	25.1	21.7	16.48	-482.4	-810.9	486.9	466.5	20.42	23.847		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3L-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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	1.0	1.0	0.0	0.0	90.00	0.0	58.8	58.8					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	58.8	58.8	58.4	0.31	192.358		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	58.8	58.8	58.1	0.65	89.767		
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	58.8	58.8	57.7	1.00	58.544		
400.0	400.0	401.0	401.0	0.7	0.7	90.00	0.0	58.8	58.8	57.4	1.35	43.435		
500.0	500.0	501.7	501.7	0.8	0.9	90.66	-0.7	58.2	58.2	56.5	1.70	34.150		
600.0	600.0	602.3	602.3	1.0	1.0	173.49	-2.7	56.4	57.3	55.3	2.06	27.896		
653.4	653.4	656.0	655.9	1.1	1.1	175.31	-4.3	55.0	57.2	55.0	2.25	25.477 CC		
700.0	700.0	702.8	702.7	1.2	1.2	177.26	-6.0	53.5	57.3	54.9	2.41	23.765 ES		
800.0	799.9	803.2	802.9	1.4	1.4	-177.54	-10.7	49.4	58.4	55.6	2.78	21.032		
900.0	899.7	903.4	902.8	1.6	1.6	-171.30	-16.6	44.2	61.0	57.8	3.16	19.315		
1,000.0	999.4	1,003.4	1,002.3	1.8	1.8	-164.53	-23.9	37.8	65.4	61.8	3.56	18.372		
1,100.0	1,098.9	1,103.2	1,101.4	2.0	2.1	-157.83	-32.4	30.3	71.8	67.9	3.99	18.024		
1,200.0	1,198.3	1,202.6	1,200.0	2.2	2.3	-151.93	-41.7	22.1	80.3	75.8	4.44	18.091		
1,300.0	1,297.7	1,301.9	1,298.6	2.5	2.6	-147.21	-51.1	13.8	89.5	84.6	4.90	18.253		
1,400.0	1,397.1	1,401.2	1,397.1	2.7	2.9	-143.39	-60.5	5.6	99.1	93.8	5.37	18.450		
1,500.0	1,496.5	1,500.6	1,495.6	3.0	3.1	-140.26	-69.9	-2.7	109.2	103.3	5.85	18.657		
1,600.0	1,595.8	1,599.9	1,594.2	3.2	3.4	-137.66	-79.3	-10.9	119.5	113.1	6.33	18.862		
1,700.0	1,695.2	1,699.2	1,692.7	3.5	3.7	-135.47	-88.7	-19.2	130.0	123.2	6.82	19.059		
1,800.0	1,794.6	1,798.6	1,791.3	3.7	3.9	-133.62	-98.1	-27.4	140.7	133.4	7.31	19.246		
1,900.0	1,894.0	1,897.9	1,889.8	4.0	4.2	-132.02	-107.5	-35.7	151.5	143.7	7.80	19.422		
2,000.0	1,993.4	1,997.2	1,988.4	4.2	4.5	-130.64	-116.9	-43.9	162.4	154.1	8.29	19.585		
2,100.0	2,092.8	2,096.6	2,086.9	4.5	4.7	-129.43	-126.3	-52.2	173.4	164.6	8.78	19.737		
2,200.0	2,192.2	2,195.9	2,185.4	4.7	5.0	-128.37	-135.7	-60.4	184.4	175.1	9.28	19.879		
2,300.0	2,291.6	2,295.2	2,284.0	5.0	5.3	-127.43	-145.1	-68.7	195.5	185.7	9.77	20.010		
2,400.0	2,390.9	2,394.6	2,382.5	5.2	5.6	-126.59	-154.5	-76.9	206.7	196.4	10.26	20.133		
2,500.0	2,490.3	2,493.9	2,481.1	5.5	5.8	-125.83	-163.9	-85.2	217.9	207.1	10.76	20.247		
2,600.0	2,589.7	2,593.2	2,579.6	5.7	6.1	-125.15	-173.3	-93.4	229.1	217.8	11.25	20.353		
2,700.0	2,689.1	2,692.6	2,678.2	6.0	6.4	-124.54	-182.6	-101.7	240.3	228.6	11.75	20.453		
2,800.0	2,788.5	2,791.9	2,776.7	6.3	6.7	-123.97	-192.0	-109.9	251.6	239.4	12.25	20.546		
2,900.0	2,887.9	2,891.2	2,875.2	6.5	6.9	-123.46	-201.4	-118.2	262.9	250.2	12.74	20.633		
3,000.0	2,987.3	2,990.6	2,973.8	6.8	7.2	-122.99	-210.8	-126.4	274.2	261.0	13.24	20.714		
3,100.0	3,086.6	3,089.9	3,072.3	7.0	7.5	-122.55	-220.2	-134.7	285.6	271.8	13.73	20.791		
3,200.0	3,186.0	3,189.2	3,170.9	7.3	7.8	-122.15	-229.6	-142.9	296.9	282.7	14.23	20.863		
3,300.0	3,285.4	3,288.6	3,269.4	7.6	8.1	-121.78	-239.0	-151.2	308.3	293.6	14.73	20.932		
3,400.0	3,384.8	3,387.9	3,368.0	7.8	8.3	-121.44	-248.4	-159.4	319.7	304.4	15.22	20.996		
3,500.0	3,484.2	3,487.2	3,466.5	8.1	8.6	-121.11	-257.8	-167.7	331.0	315.3	15.72	21.057		
3,600.0	3,583.6	3,586.6	3,565.0	8.3	8.9	-120.81	-267.2	-175.9	342.4	326.2	16.22	21.114		
3,700.0	3,683.0	3,685.9	3,663.6	8.6	9.2	-120.53	-276.6	-184.2	353.8	337.1	16.72	21.169		
3,800.0	3,782.4	3,785.2	3,762.1	8.8	9.4	-120.27	-286.0	-192.4	365.3	348.0	17.21	21.221		
3,900.0	3,881.7	3,884.6	3,860.7	9.1	9.7	-120.02	-295.4	-200.7	376.7	359.0	17.71	21.270		
4,000.0	3,981.1	3,983.9	3,959.2	9.4	10.0	-119.79	-304.8	-208.9	388.1	369.9	18.21	21.317		
4,100.0	4,080.5	4,083.2	4,057.8	9.6	10.3	-119.57	-314.2	-217.2	399.5	380.8	18.70	21.361		
4,200.0	4,179.9	4,182.6	4,156.3	9.9	10.6	-119.37	-323.5	-225.4	411.0	391.8	19.20	21.404		
4,300.0	4,279.3	4,281.9	4,254.9	10.1	10.8	-119.17	-332.9	-233.7	422.4	402.7	19.70	21.444		
4,400.0	4,378.7	4,381.2	4,353.4	10.4	11.1	-118.98	-342.3	-241.9	433.9	413.7	20.20	21.483		
4,500.0	4,478.1	4,480.6	4,451.9	10.7	11.4	-118.81	-351.7	-250.2	445.3	424.6	20.69	21.520		
4,600.0	4,577.4	4,579.9	4,550.5	10.9	11.7	-118.64	-361.1	-258.4	456.8	435.6	21.19	21.556		
4,700.0	4,676.8	4,679.2	4,649.0	11.2	11.9	-118.48	-370.5	-266.7	468.2	446.5	21.69	21.590		
4,800.0	4,776.2	4,778.6	4,747.6	11.4	12.2	-118.33	-379.9	-274.9	479.7	457.5	22.19	21.622		
4,900.0	4,875.6	4,877.9	4,846.1	11.7	12.5	-118.19	-389.3	-283.2	491.2	468.5	22.68	21.654		
7,000.0	6,962.7	7,865.9	7,378.0	17.2	17.0	172.52	110.9	-495.1	451.6	425.4	26.20	17.236		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												S32-T2N-R68W (File) - File 3L-32H-K268 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:												0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			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)							
7,100.0	7,062.1	7,866.5	7,378.0	17.4	17.0	-160.16	111.5	-495.1	368.1	341.4	26.71	13.780					
7,200.0	7,160.5	7,853.2	7,378.0	17.7	16.9	-126.51	98.1	-495.1	295.5	268.1	27.34	10.808					
7,300.0	7,255.2	7,822.8	7,378.0	17.8	16.8	-114.66	67.8	-495.1	243.6	216.6	27.01	9.017					
7,400.0	7,343.2	7,776.4	7,378.0	18.0	16.7	-102.01	21.4	-495.1	222.3	195.8	26.52	8.385					
7,414.8	7,355.4	7,768.3	7,378.0	18.1	16.7	-99.86	13.2	-495.1	222.0	195.5	26.51	8.375 SF					
7,500.0	7,421.8	7,719.3	7,376.9	18.3	16.6	-87.03	-35.7	-495.0	232.0	205.2	26.79	8.661					
7,600.0	7,488.8	7,663.3	7,370.8	18.6	16.6	-72.71	-91.4	-494.5	263.4	236.1	27.27	9.659					
7,700.0	7,542.0	7,608.4	7,359.6	19.0	16.6	-60.39	-145.1	-493.6	306.1	279.2	26.86	11.397					
7,800.0	7,579.9	7,550.0	7,342.1	19.6	16.6	-50.37	-200.7	-492.1	352.5	327.1	25.34	13.910					
7,900.0	7,601.2	7,500.0	7,322.7	20.2	16.7	-43.49	-246.8	-490.5	397.9	374.6	23.36	17.032					
8,000.0	7,606.0	7,450.0	7,299.3	21.0	16.9	-39.05	-290.9	-488.5	440.5	418.4	22.03	19.990					
8,100.0	7,606.0	7,400.0	7,272.2	21.9	17.0	-36.88	-332.9	-486.3	487.7	465.4	22.27	21.898					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3M-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	1.0	1.0	0.0	0.0	92.76	-3.6	75.5	75.6					
100.0	100.0	101.0	101.0	0.2	0.2	92.76	-3.6	75.5	75.6	75.3	0.31	247.604		
200.0	200.0	201.0	201.0	0.3	0.3	92.76	-3.6	75.5	75.6	75.0	0.65	115.547		
300.0	300.0	301.4	301.4	0.5	0.5	93.41	-4.5	75.2	75.4	74.4	1.00	75.045		
400.0	400.0	401.7	401.6	0.7	0.7	95.37	-7.0	74.4	74.7	73.3	1.35	55.127		
500.0	500.0	501.9	501.7	0.8	0.9	98.69	-11.1	72.9	73.7	72.0	1.71	43.236		
552.2	552.2	554.1	553.9	0.9	1.0	-178.35	-14.0	71.9	73.5	71.6	1.92	38.320 CC, ES		
600.0	600.0	601.9	601.5	1.0	1.1	-175.95	-16.9	70.8	73.7	71.6	2.10	35.159		
700.0	700.0	701.6	701.0	1.2	1.3	-170.17	-24.3	68.2	75.9	73.4	2.48	30.536		
800.0	799.9	801.2	800.1	1.4	1.5	-164.17	-33.0	65.2	80.6	77.7	2.88	27.978		
900.0	899.7	900.7	899.2	1.6	1.7	-159.22	-41.6	62.1	87.7	84.4	3.28	26.766		
1,000.0	999.4	1,000.1	998.1	1.8	2.0	-155.45	-50.3	59.1	96.9	93.3	3.67	26.381 SF		
1,100.0	1,098.9	1,099.3	1,097.0	2.0	2.2	-152.75	-59.0	56.0	108.1	104.0	4.08	26.508		
1,200.0	1,198.3	1,198.5	1,195.7	2.2	2.4	-150.91	-67.6	52.9	120.6	116.1	4.49	26.877		
1,300.0	1,297.7	1,297.6	1,294.4	2.5	2.7	-149.45	-76.3	49.9	133.3	128.4	4.90	27.196		
1,400.0	1,397.1	1,396.7	1,393.1	2.7	2.9	-148.24	-84.9	46.8	146.0	140.7	5.32	27.461		
1,500.0	1,496.5	1,495.9	1,491.8	3.0	3.1	-147.23	-93.6	43.8	158.8	153.1	5.74	27.685		
1,600.0	1,595.8	1,595.0	1,590.6	3.2	3.4	-146.37	-102.3	40.7	171.7	165.5	6.16	27.876		
1,700.0	1,695.2	1,694.2	1,689.3	3.5	3.6	-145.63	-110.9	37.7	184.6	178.0	6.58	28.039		
1,800.0	1,794.6	1,793.3	1,788.0	3.7	3.8	-144.99	-119.6	34.6	197.5	190.5	7.01	28.179		
1,900.0	1,894.0	1,892.4	1,886.7	4.0	4.1	-144.42	-128.2	31.6	210.5	203.0	7.44	28.302		
2,000.0	1,993.4	1,991.6	1,985.4	4.2	4.3	-143.92	-136.9	28.5	223.4	215.5	7.86	28.409		
2,100.0	2,092.8	2,090.7	2,084.1	4.5	4.5	-143.48	-145.5	25.5	236.4	228.1	8.29	28.504		
2,200.0	2,192.2	2,189.9	2,182.8	4.7	4.8	-143.08	-154.2	22.4	249.4	240.6	8.72	28.588		
2,300.0	2,291.6	2,289.0	2,281.6	5.0	5.0	-142.72	-162.8	19.3	262.4	253.2	9.15	28.663		
2,400.0	2,390.9	2,388.1	2,380.3	5.2	5.2	-142.40	-171.5	16.3	275.4	265.8	9.58	28.730		
2,500.0	2,490.3	2,487.3	2,479.0	5.5	5.5	-142.10	-180.2	13.2	288.4	278.4	10.02	28.791		
2,600.0	2,589.7	2,586.4	2,577.7	5.7	5.7	-141.83	-188.8	10.2	301.4	290.9	10.45	28.846		
2,700.0	2,689.1	2,685.6	2,676.4	6.0	5.9	-141.59	-197.5	7.1	314.4	303.5	10.88	28.896		
2,800.0	2,788.5	2,784.7	2,775.1	6.3	6.2	-141.36	-206.1	4.1	327.4	316.1	11.31	28.942		
2,900.0	2,887.9	2,883.8	2,873.8	6.5	6.4	-141.15	-214.8	1.0	340.5	328.7	11.75	28.984		
3,000.0	2,987.3	2,983.0	2,972.5	6.8	6.6	-140.95	-223.4	-2.0	353.5	341.3	12.18	29.022		
3,100.0	3,086.6	3,082.1	3,071.3	7.0	6.9	-140.77	-232.1	-5.1	366.6	354.0	12.62	29.057		
3,200.0	3,186.0	3,181.3	3,170.0	7.3	7.1	-140.60	-240.7	-8.2	379.6	366.6	13.05	29.090		
3,300.0	3,285.4	3,280.4	3,268.7	7.6	7.3	-140.44	-249.4	-11.2	392.7	379.2	13.48	29.121		
3,400.0	3,384.8	3,379.5	3,367.4	7.8	7.6	-140.30	-258.1	-14.3	405.7	391.8	13.92	29.149		
3,500.0	3,484.2	3,478.7	3,466.1	8.1	7.8	-140.16	-266.7	-17.3	418.8	404.4	14.35	29.175		
3,600.0	3,583.6	3,577.8	3,564.8	8.3	8.1	-140.03	-275.4	-20.4	431.8	417.0	14.79	29.200		
3,700.0	3,683.0	3,677.0	3,663.5	8.6	8.3	-139.91	-284.0	-23.4	444.9	429.7	15.22	29.223		
3,800.0	3,782.4	3,776.1	3,762.3	8.8	8.5	-139.79	-292.7	-26.5	457.9	442.3	15.66	29.244		
3,900.0	3,881.7	3,875.2	3,861.0	9.1	8.8	-139.68	-301.3	-29.5	471.0	454.9	16.09	29.265		
4,000.0	3,981.1	3,974.4	3,959.7	9.4	9.0	-139.58	-310.0	-32.6	484.1	467.5	16.53	29.284		
4,100.0	4,080.5	4,073.5	4,058.4	9.6	9.2	-139.48	-318.6	-35.7	497.1	480.2	16.97	29.302		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3N-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	78.3	78.3					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	78.3	78.3	78.0	0.31	256.477		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	78.3	78.3	77.7	0.65	119.690		
266.3	266.3	267.3	267.3	0.4	0.4	90.00	0.0	78.3	78.3	77.5	0.89	88.413 CC		
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	78.3	78.3	77.3	1.00	78.059		
400.0	400.0	400.7	400.7	0.7	0.7	90.63	-0.9	78.5	78.5	77.2	1.35	58.068 ES		
500.0	500.0	500.4	500.3	0.8	0.9	92.49	-3.4	79.0	79.1	77.4	1.70	46.513		
600.0	600.0	600.0	599.9	1.0	1.0	176.21	-7.7	79.9	81.1	79.1	2.06	39.313		
700.0	700.0	699.2	698.8	1.2	1.2	-179.80	-13.6	81.1	85.7	83.3	2.43	35.295		
800.0	799.9	798.0	797.4	1.4	1.4	-175.34	-21.2	82.6	93.2	90.4	2.80	33.255		
900.0	899.7	896.9	895.9	1.6	1.7	-171.00	-30.2	84.4	103.5	100.3	3.18	32.579 SF		
1,000.0	999.4	995.9	994.4	1.8	1.9	-167.56	-39.3	86.2	116.1	112.5	3.55	32.681		
1,100.0	1,098.9	1,094.7	1,092.8	2.0	2.1	-164.99	-48.3	88.0	130.6	126.7	3.93	33.270		
1,200.0	1,198.3	1,193.3	1,190.9	2.2	2.3	-163.10	-57.4	89.8	146.7	142.4	4.31	34.071		
1,300.0	1,297.7	1,291.9	1,289.1	2.5	2.6	-161.61	-66.5	91.6	163.0	158.3	4.69	34.763		
1,400.0	1,397.1	1,390.5	1,387.2	2.7	2.8	-160.40	-75.5	93.5	179.4	174.3	5.07	35.356		
1,500.0	1,496.5	1,489.0	1,485.4	3.0	3.0	-159.38	-84.6	95.3	195.8	190.4	5.46	35.867		
1,600.0	1,595.8	1,587.6	1,583.5	3.2	3.3	-158.53	-93.6	97.1	212.3	206.5	5.85	36.312		
1,700.0	1,695.2	1,686.2	1,681.7	3.5	3.5	-157.79	-102.7	98.9	228.9	222.6	6.24	36.700		
1,800.0	1,794.6	1,784.8	1,779.8	3.7	3.7	-157.16	-111.8	100.7	245.5	238.8	6.63	37.043		
1,900.0	1,894.0	1,883.4	1,878.0	4.0	4.0	-156.61	-120.8	102.5	262.1	255.0	7.02	37.346		
2,000.0	1,993.4	1,982.0	1,976.1	4.2	4.2	-156.12	-129.9	104.3	278.7	271.3	7.41	37.616		
2,100.0	2,092.8	2,080.5	2,074.3	4.5	4.4	-155.68	-139.0	106.2	295.3	287.5	7.80	37.858		
2,200.0	2,192.2	2,179.1	2,172.4	4.7	4.7	-155.30	-148.0	108.0	312.0	303.8	8.19	38.076		
2,300.0	2,291.6	2,277.7	2,270.6	5.0	4.9	-154.95	-157.1	109.8	328.6	320.0	8.59	38.273		
2,400.0	2,390.9	2,376.3	2,368.7	5.2	5.1	-154.64	-166.1	111.6	345.3	336.3	8.98	38.452		
2,500.0	2,490.3	2,474.9	2,466.9	5.5	5.4	-154.35	-175.2	113.4	362.0	352.6	9.37	38.615		
2,600.0	2,589.7	2,573.5	2,565.0	5.7	5.6	-154.09	-184.3	115.2	378.7	368.9	9.77	38.765		
2,700.0	2,689.1	2,672.0	2,663.2	6.0	5.8	-153.85	-193.3	117.1	395.4	385.2	10.16	38.902		
2,800.0	2,788.5	2,770.6	2,761.3	6.3	6.1	-153.63	-202.4	118.9	412.1	401.5	10.56	39.029		
2,900.0	2,887.9	2,869.2	2,859.5	6.5	6.3	-153.43	-211.4	120.7	428.8	417.8	10.95	39.146		
3,000.0	2,987.3	2,967.8	2,957.6	6.8	6.5	-153.25	-220.5	122.5	445.5	434.2	11.35	39.255		
3,100.0	3,086.6	3,066.4	3,055.8	7.0	6.8	-153.07	-229.6	124.3	462.2	450.5	11.75	39.356		
3,200.0	3,186.0	3,165.0	3,153.9	7.3	7.0	-152.91	-238.6	126.1	479.0	466.8	12.14	39.450		
3,300.0	3,285.4	3,263.5	3,252.1	7.6	7.2	-152.76	-247.7	127.9	495.7	483.1	12.54	39.537		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3O-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	92.48	-3.6	83.9	84.0					
100.0	100.0	101.0	101.0	0.2	0.2	92.48	-3.6	83.9	84.0	83.7	0.31	275.055		
200.0	200.0	201.0	201.0	0.3	0.3	92.48	-3.6	83.9	84.0	83.4	0.65	128.359		
232.1	232.1	233.1	233.1	0.4	0.4	92.48	-3.6	83.9	84.0	83.2	0.77	109.616 CC		
300.0	300.0	300.5	300.5	0.5	0.5	92.60	-3.8	84.1	84.2	83.2	1.00	83.922 ES		
400.0	400.0	400.0	400.0	0.7	0.7	93.50	-5.2	85.1	85.3	83.9	1.35	63.100		
500.0	500.0	498.5	498.5	0.8	0.9	95.21	-7.9	87.2	87.6	85.9	1.70	51.502		
600.0	600.0	597.3	597.1	1.0	1.0	178.29	-12.1	90.2	92.0	89.9	2.06	44.717		
700.0	700.0	695.7	695.3	1.2	1.2	-178.86	-17.5	94.3	99.6	97.2	2.42	41.239		
800.0	799.9	793.6	792.8	1.4	1.5	-175.91	-24.3	99.4	110.4	107.7	2.77	39.808		
900.0	899.7	891.0	889.6	1.6	1.7	-173.11	-32.3	105.4	124.6	121.5	3.13	39.759 SF		
1,000.0	999.4	989.4	987.5	1.8	1.9	-170.77	-41.0	112.0	141.3	137.8	3.49	40.444		
1,100.0	1,098.9	1,087.6	1,085.1	2.0	2.2	-169.04	-49.7	118.5	159.9	156.0	3.85	41.501		
1,200.0	1,198.3	1,185.5	1,182.4	2.2	2.4	-167.78	-58.3	125.0	179.8	175.6	4.21	42.685		
1,300.0	1,297.7	1,283.4	1,279.7	2.5	2.7	-166.78	-67.0	131.5	200.0	195.4	4.58	43.694		
1,400.0	1,397.1	1,381.3	1,377.0	2.7	2.9	-165.97	-75.7	138.0	220.2	215.3	4.94	44.558		
1,500.0	1,496.5	1,479.2	1,474.2	3.0	3.2	-165.29	-84.3	144.5	240.5	235.1	5.31	45.303		
1,600.0	1,595.8	1,577.1	1,571.5	3.2	3.4	-164.72	-93.0	151.0	260.7	255.0	5.67	45.953		
1,700.0	1,695.2	1,675.0	1,668.8	3.5	3.7	-164.23	-101.6	157.5	281.0	275.0	6.04	46.523		
1,800.0	1,794.6	1,772.9	1,766.1	3.7	3.9	-163.81	-110.3	163.9	301.3	294.9	6.41	47.027		
1,900.0	1,894.0	1,870.8	1,863.4	4.0	4.2	-163.44	-119.0	170.4	321.6	314.9	6.77	47.476		
2,000.0	1,993.4	1,968.7	1,960.7	4.2	4.4	-163.12	-127.6	176.9	342.0	334.8	7.14	47.878		
2,100.0	2,092.8	2,066.6	2,058.0	4.5	4.7	-162.83	-136.3	183.4	362.3	354.8	7.51	48.239		
2,200.0	2,192.2	2,164.4	2,155.3	4.7	4.9	-162.57	-144.9	189.9	382.7	374.8	7.88	48.566		
2,300.0	2,291.6	2,262.3	2,252.6	5.0	5.2	-162.34	-153.6	196.4	403.0	394.8	8.25	48.863		
2,400.0	2,390.9	2,360.2	2,349.9	5.2	5.4	-162.13	-162.3	202.9	423.4	414.8	8.62	49.134		
2,500.0	2,490.3	2,458.1	2,447.2	5.5	5.7	-161.94	-170.9	209.4	443.7	434.8	8.99	49.382		
2,600.0	2,589.7	2,556.0	2,544.5	5.7	5.9	-161.76	-179.6	215.9	464.1	454.8	9.36	49.610		
2,700.0	2,689.1	2,653.9	2,641.8	6.0	6.2	-161.61	-188.2	222.4	484.5	474.8	9.72	49.820		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - File 3P-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	89.5	89.5					
100.0	100.0	101.0	101.0	0.2	0.2	90.00	0.0	89.5	89.5	89.2	0.31	293.117		
166.3	166.3	167.3	167.3	0.3	0.3	90.00	0.0	89.5	89.5	89.0	0.54	166.728 CC		
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	89.5	89.5	88.9	0.65	136.791 ES		
300.0	300.0	300.0	300.0	0.5	0.5	90.34	-0.5	90.2	90.2	89.2	1.00	90.022		
400.0	400.0	398.5	398.4	0.7	0.7	91.30	-2.1	92.2	92.3	91.0	1.35	68.316		
500.0	500.0	497.1	496.9	0.8	0.9	92.82	-4.7	95.6	95.8	94.1	1.70	56.212		
600.0	600.0	595.4	595.1	1.0	1.1	175.45	-8.3	100.3	101.7	99.7	2.05	49.527		
700.0	700.0	693.4	692.7	1.2	1.3	177.69	-13.0	106.3	110.9	108.5	2.41	46.083		
800.0	799.9	790.7	789.7	1.4	1.5	179.97	-18.6	113.6	123.5	120.7	2.76	44.750 SF		
900.0	899.7	887.3	885.7	1.6	1.7	-177.90	-25.2	122.1	139.4	136.3	3.11	44.829		
1,000.0	999.4	983.1	980.6	1.8	2.0	-175.99	-32.7	131.8	158.8	155.3	3.46	45.895		
1,100.0	1,098.9	1,078.1	1,074.7	2.0	2.3	-174.34	-41.1	142.7	181.4	177.6	3.81	47.674		
1,200.0	1,198.3	1,174.9	1,170.4	2.2	2.6	-173.01	-50.0	154.2	206.1	201.9	4.16	49.573		
1,300.0	1,297.7	1,271.7	1,266.0	2.5	2.9	-171.97	-58.9	165.7	231.0	226.4	4.51	51.197		
1,400.0	1,397.1	1,368.5	1,361.7	2.7	3.1	-171.14	-67.8	177.3	255.9	251.0	4.87	52.596		
1,500.0	1,496.5	1,465.3	1,457.4	3.0	3.4	-170.46	-76.7	188.8	280.8	275.6	5.22	53.812		
1,600.0	1,595.8	1,562.0	1,553.1	3.2	3.7	-169.88	-85.6	200.4	305.8	300.3	5.57	54.877		
1,700.0	1,695.2	1,658.8	1,648.8	3.5	4.0	-169.40	-94.6	211.9	330.9	324.9	5.93	55.817		
1,800.0	1,794.6	1,755.6	1,744.4	3.7	4.3	-168.98	-103.5	223.4	355.9	349.6	6.28	56.653		
1,900.0	1,894.0	1,852.4	1,840.1	4.0	4.6	-168.61	-112.4	235.0	380.9	374.3	6.64	57.400		
2,000.0	1,993.4	1,949.2	1,935.8	4.2	4.9	-168.30	-121.3	246.5	406.0	399.0	6.99	58.072		
2,100.0	2,092.8	2,046.0	2,031.5	4.5	5.2	-168.01	-130.2	258.1	431.1	423.7	7.35	58.679		
2,200.0	2,192.2	2,142.8	2,127.2	4.7	5.6	-167.76	-139.2	269.6	456.2	448.5	7.70	59.230		
2,300.0	2,291.6	2,239.5	2,222.8	5.0	5.9	-167.54	-148.1	281.2	481.3	473.2	8.06	59.733		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design											S32-T2N-R68W (File) - NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURVEYS			Offset Site Error:		0.0 ft
Survey Program: 4876-Geolink MWD													Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)						
4,800.0	4,776.2	4,749.2	4,749.2	11.4	8.3	-21.18	-29.1	-918.8	494.4	477.3	17.09	28.937				
4,900.0	4,875.6	4,848.6	4,848.6	11.7	8.5	-21.66	-29.1	-918.8	484.1	466.7	17.47	27.716				
4,977.0	4,952.2	4,876.0	4,876.0	11.9	8.5	-21.79	-29.1	-918.8	478.7	461.1	17.67	27.099	CC, ES			
5,000.0	4,975.0	4,876.0	4,876.0	12.0	8.5	-21.79	-29.1	-918.8	479.3	461.6	17.71	27.064	SF			
5,100.0	5,074.4	4,876.0	4,876.0	12.2	8.5	-21.79	-29.1	-918.8	494.3	476.4	17.90	27.616				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 4996-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)				
0.0	0.0	0.0	0.0	0.0	0.0	63.57	182.1	366.5	409.3					
100.0	100.0	100.0	100.0	0.2	0.2	63.57	182.1	366.5	409.3	408.9	0.33	1,255.587		
200.0	200.0	200.0	200.0	0.3	0.3	63.57	182.1	366.5	409.3	408.6	0.67	606.679		
300.0	300.0	300.0	300.0	0.5	0.5	63.57	182.1	366.5	409.3	408.2	1.02	399.968		
400.0	400.0	400.0	400.0	0.7	0.7	63.57	182.1	366.5	409.3	407.9	1.37	298.323		
500.0	500.0	500.0	500.0	0.8	0.9	63.57	182.1	366.5	409.3	407.5	1.72	237.871	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	144.31	182.1	366.5	410.0	407.9	2.07	198.132		
700.0	700.0	700.0	700.0	1.2	1.2	144.51	182.1	366.5	412.1	409.7	2.42	170.407		
800.0	799.9	799.9	799.9	1.4	1.4	144.84	182.1	366.5	415.7	412.9	2.77	150.122		
900.0	899.7	899.7	899.7	1.6	1.6	145.29	182.1	366.5	420.7	417.6	3.12	134.766		
1,000.0	999.4	999.4	999.4	1.8	1.7	145.85	182.1	366.5	427.2	423.7	3.48	122.850		
1,100.0	1,098.9	1,098.9	1,098.9	2.0	1.9	146.51	182.1	366.5	435.1	431.3	3.84	113.437		
1,200.0	1,198.3	1,198.3	1,198.3	2.2	2.1	147.27	182.1	366.5	444.3	440.1	4.20	105.838		
1,300.0	1,297.7	1,297.7	1,297.7	2.5	2.3	148.03	182.1	366.5	453.7	449.1	4.56	99.449		
1,400.0	1,397.1	1,397.1	1,397.1	2.7	2.4	148.75	182.1	366.5	463.1	458.2	4.93	94.018		
1,500.0	1,496.5	1,496.5	1,496.5	3.0	2.6	149.45	182.1	366.5	472.6	467.3	5.29	89.352		
1,600.0	1,595.8	1,595.8	1,595.8	3.2	2.8	150.11	182.1	366.5	482.2	476.5	5.65	85.306		
1,700.0	1,695.2	1,695.2	1,695.2	3.5	3.0	150.75	182.1	366.5	491.8	485.8	6.01	81.767	SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8140-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		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		
7,700.0	7,542.0	7,532.0	7,532.0	19.0	13.1	-62.03	-543.5	-457.7	441.7	415.4	26.31	16.791		
7,800.0	7,579.9	7,569.9	7,569.9	19.6	13.2	-75.30	-543.5	-457.7	375.7	348.2	27.57	13.628		
7,900.0	7,601.2	7,591.2	7,591.2	20.2	13.2	-85.86	-543.5	-457.7	318.8	290.1	28.69	11.114		
8,000.0	7,606.0	7,596.0	7,596.0	21.0	13.3	-90.00	-543.5	-457.7	282.6	253.0	29.67	9.526		
8,060.7	7,606.0	7,596.0	7,596.0	21.5	13.3	-90.00	-543.5	-457.7	276.0	245.7	30.35	9.094 CC, ES		
8,100.0	7,606.0	7,596.0	7,596.0	21.9	13.3	-90.00	-543.5	-457.7	278.8	248.0	30.80	9.053 SF		
8,200.0	7,606.0	7,596.0	7,596.0	22.9	13.3	-90.00	-543.5	-457.7	309.2	277.2	32.02	9.656		
8,300.0	7,606.0	7,596.0	7,596.0	24.0	13.3	-90.00	-543.5	-457.7	365.4	332.0	33.33	10.963		
8,400.0	7,606.0	7,596.0	7,596.0	25.1	13.3	-90.00	-543.5	-457.7	437.4	402.7	34.70	12.608		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8350-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		
14,000.0	7,606.0	7,637.0	7,637.0	116.8	13.3	90.00	-6,670.3	-1,069.3	476.0	346.7	129.36	3.680		
14,100.0	7,606.0	7,637.0	7,637.0	118.5	13.3	90.00	-6,670.3	-1,069.3	448.8	317.7	131.11	3.423		
14,175.8	7,606.0	7,637.0	7,637.0	119.8	13.3	90.00	-6,670.3	-1,069.3	442.4	310.0	132.43	3.341 CC		
14,183.2	7,606.0	7,637.0	7,637.0	119.9	13.3	90.00	-6,670.3	-1,069.3	442.4	309.9	132.56	3.338 ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 88-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis				Distance					
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
8,500.0	7,606.0	7,667.4	7,616.9	26.3	18.4	90.14	-1,225.5	-1,099.5	442.8	404.6	38.23	11.584	
8,600.0	7,606.0	7,666.9	7,616.4	27.6	18.4	90.07	-1,225.5	-1,099.5	399.8	360.1	39.69	10.071	
8,700.0	7,606.0	7,666.4	7,615.9	29.0	18.4	89.99	-1,225.5	-1,099.5	378.9	337.7	41.19	9.197	
8,731.4	7,606.0	7,666.2	7,615.8	29.4	18.4	89.97	-1,225.5	-1,099.5	377.6	335.9	41.67	9.060 CC, ES	
8,800.0	7,606.0	7,665.9	7,615.4	30.3	18.4	89.91	-1,225.5	-1,099.5	383.7	341.0	42.73	8.981 SF	
8,900.0	7,606.0	7,665.4	7,614.9	31.7	18.4	89.84	-1,225.5	-1,099.5	413.5	369.2	44.28	9.338	
9,000.0	7,606.0	7,664.9	7,614.4	33.2	18.4	89.76	-1,225.5	-1,099.5	463.4	417.5	45.86	10.104	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File) - SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8340-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
12,600.0	7,606.0	7,662.0	7,662.0	92.6	13.4	90.00	-5,408.4	-948.6	435.7	330.7	105.04	4.148		
12,700.0	7,606.0	7,662.0	7,662.0	94.3	13.4	90.00	-5,408.4	-948.6	369.6	262.8	106.78	3.461		
12,800.0	7,606.0	7,662.0	7,662.0	96.0	13.4	90.00	-5,408.4	-948.6	321.5	213.0	108.52	2.962		
12,900.0	7,606.0	7,662.0	7,662.0	97.8	13.4	90.00	-5,408.4	-948.6	300.2	189.9	110.25	2.722		
12,916.3	7,606.0	7,662.0	7,662.0	98.0	13.4	90.00	-5,408.4	-948.6	299.7	189.2	110.54	2.711	CC, ES, SF	
13,000.0	7,606.0	7,662.0	7,662.0	99.5	13.4	90.00	-5,408.4	-948.6	311.2	199.2	111.99	2.779		
13,100.0	7,606.0	7,662.0	7,662.0	101.2	13.4	90.00	-5,408.4	-948.6	351.5	237.8	113.73	3.091		
13,200.0	7,606.0	7,662.0	7,662.0	102.9	13.4	90.00	-5,408.4	-948.6	412.7	297.2	115.47	3.574		
13,300.0	7,606.0	7,662.0	7,662.0	104.7	13.4	90.00	-5,408.4	-948.6	486.9	369.7	117.21	4.154		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3D-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4970.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4970.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3D-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4970.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

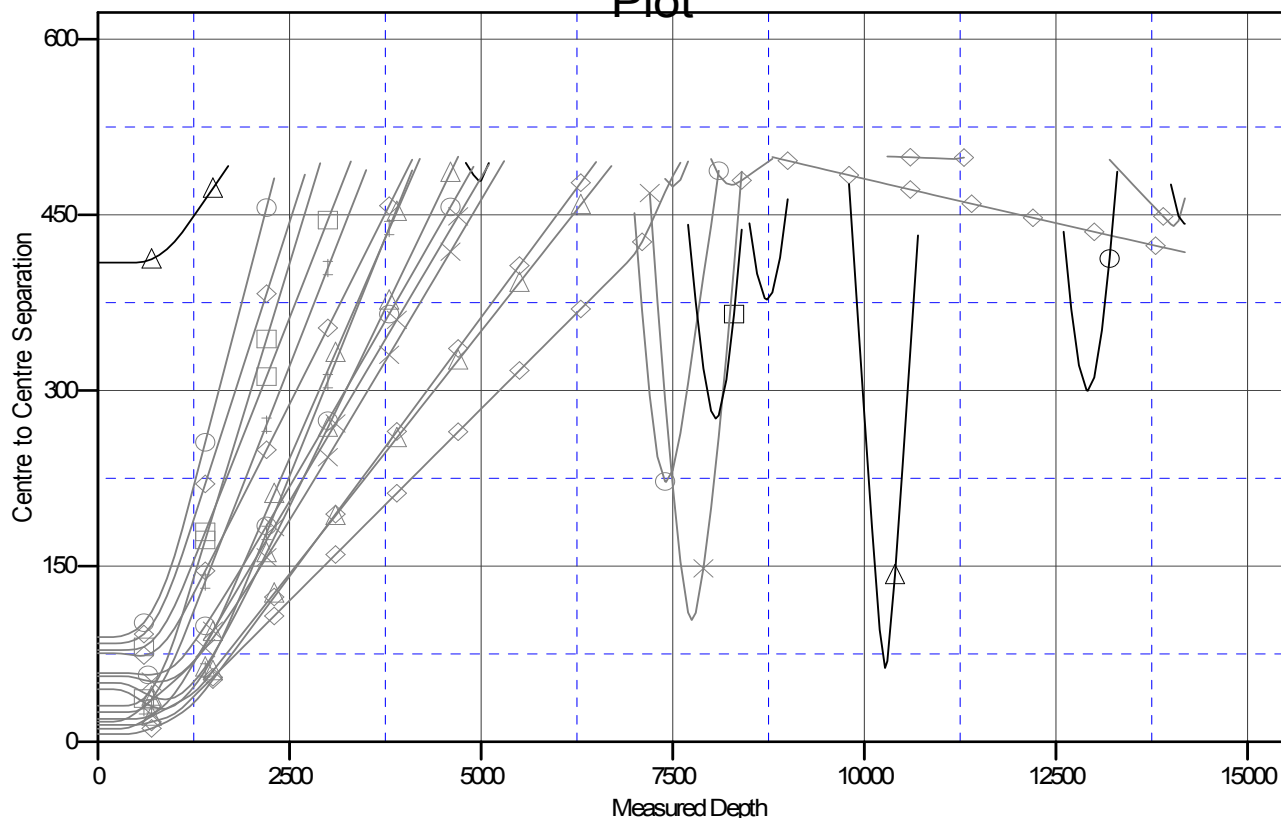
Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

Ladder Plot



LEGEND

AS TEA WELL, NOSURVEYS V0	File 3J-32H-K268, Hz, Plan #1 V0	File 3M-32H-K268, Hz, Plan #1 V0
1 V0	NELSON 4 (EXISTING), TEXAS TEA WELL, NOSURVEYS V0	File 3B-32H-K268, Hz, Plan #1 V0
NG), ENCANA WELL, SURVEYS V0	File 3O-32H-K268, Hz, Plan #1 V0	File 3A-32H-K268, Hz, Plan #1 V0
1 V0	File 3P-32H-K268, Hz, Plan #1 V0	File 3I-32H-K268, Hz, Plan #1 V0
1 V0	BROWN C UNIT 2 (EXISTING), ENCANA WELL, NOSURVEYS V0	File 3H-32H-K268, Hz, Plan #1 V0
1 V0	PAQUETTE 13-5 (EXISTING), KERR-MCGEE WELL, NOSURVEYS V0	NELSON E UNIT 1 (EXISTING), ENCANA WELL, NOSURVEYS V0
1 V0	File 3G-32H-K268, Hz, Plan #1 V0	
1 V0	SCHRINER 12-5 (EXISTING), KERR-MCGEE WELL, NOSURVEYS V0	

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