

Planning Report

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

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

Site		S32-T2N-R68W (File/Hwy 52)			
Site Position:		Northing:	1,275,973.93 ft	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 3I-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,917.36 ft	Latitude:	40.092570
	+E/-W	0.0 ft	Easting:	3,131,219.34 ft	Longitude:	-105.031000
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,958.0 ft

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

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,524.9	13.25	247.02	1,513.1	-59.5	-140.4	1.00	1.00	0.00	247.02	
7,162.3	13.25	247.02	7,000.5	-563.8	-1,329.9	0.00	0.00	0.00	0.00	
8,109.4	90.00	358.00	7,606.0	2.2	-1,482.9	10.00	8.10	11.72	110.46	
11,227.4	90.00	358.00	7,606.0	3,118.3	-1,591.7	0.00	0.00	0.00	0.00	File 3I-32H-K268 PBt

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
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Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
271.0	0.71	247.02	271.0	-0.2	-0.4	-0.2	1.00	1.00	Fox Hills - BASE
300.0	1.00	247.02	300.0	-0.3	-0.8	-0.3	1.00	1.00	
400.0	2.00	247.02	400.0	-1.4	-3.2	-1.4	1.00	1.00	
500.0	3.00	247.02	499.9	-3.1	-7.2	-3.1	1.00	1.00	
600.0	4.00	247.02	599.7	-5.4	-12.8	-5.4	1.00	1.00	
700.0	5.00	247.02	699.4	-8.5	-20.1	-8.5	1.00	1.00	
800.0	6.00	247.02	798.9	-12.3	-28.9	-12.3	1.00	1.00	
900.0	7.00	247.02	898.3	-16.7	-39.3	-16.7	1.00	1.00	
1,000.0	8.00	247.02	997.4	-21.8	-51.3	-21.8	1.00	1.00	
1,100.0	9.00	247.02	1,096.3	-27.5	-64.9	-27.5	1.00	1.00	
1,200.0	10.00	247.02	1,194.9	-34.0	-80.1	-34.0	1.00	1.00	
1,300.0	11.00	247.02	1,293.3	-41.1	-96.9	-41.1	1.00	1.00	
1,400.0	12.00	247.02	1,391.2	-48.9	-115.3	-48.9	1.00	1.00	
1,500.0	13.00	247.02	1,488.9	-57.3	-135.2	-57.3	1.00	1.00	
1,524.9	13.25	247.02	1,513.1	-59.5	-140.4	-59.5	1.00	1.00	EOB; Inc=13.25°
1,600.0	13.25	247.02	1,586.2	-66.2	-156.3	-66.2	0.00	0.00	
1,700.0	13.25	247.02	1,683.6	-75.2	-177.4	-75.2	0.00	0.00	
1,800.0	13.25	247.02	1,780.9	-84.1	-198.5	-84.1	0.00	0.00	
1,900.0	13.25	247.02	1,878.2	-93.1	-219.6	-93.1	0.00	0.00	
2,000.0	13.25	247.02	1,975.6	-102.0	-240.7	-102.0	0.00	0.00	
2,100.0	13.25	247.02	2,072.9	-111.0	-261.8	-111.0	0.00	0.00	
2,200.0	13.25	247.02	2,170.3	-119.9	-282.9	-119.9	0.00	0.00	
2,300.0	13.25	247.02	2,267.6	-128.9	-304.0	-128.9	0.00	0.00	
2,400.0	13.25	247.02	2,364.9	-137.8	-325.1	-137.8	0.00	0.00	
2,500.0	13.25	247.02	2,462.3	-146.8	-346.2	-146.8	0.00	0.00	
2,600.0	13.25	247.02	2,559.6	-155.7	-367.3	-155.7	0.00	0.00	
2,700.0	13.25	247.02	2,656.9	-164.7	-388.4	-164.7	0.00	0.00	
2,800.0	13.25	247.02	2,754.3	-173.6	-409.5	-173.6	0.00	0.00	
2,900.0	13.25	247.02	2,851.6	-182.5	-430.6	-182.5	0.00	0.00	
3,000.0	13.25	247.02	2,949.0	-191.5	-451.7	-191.5	0.00	0.00	
3,100.0	13.25	247.02	3,046.3	-200.4	-472.8	-200.4	0.00	0.00	
3,200.0	13.25	247.02	3,143.6	-209.4	-493.9	-209.4	0.00	0.00	
3,300.0	13.25	247.02	3,241.0	-218.3	-515.0	-218.3	0.00	0.00	
3,400.0	13.25	247.02	3,338.3	-227.3	-536.1	-227.3	0.00	0.00	
3,500.0	13.25	247.02	3,435.7	-236.2	-557.2	-236.2	0.00	0.00	
3,600.0	13.25	247.02	3,533.0	-245.2	-578.3	-245.2	0.00	0.00	
3,700.0	13.25	247.02	3,630.3	-254.1	-599.4	-254.1	0.00	0.00	
3,800.0	13.25	247.02	3,727.7	-263.1	-620.5	-263.1	0.00	0.00	
3,900.0	13.25	247.02	3,825.0	-272.0	-641.6	-272.0	0.00	0.00	
4,000.0	13.25	247.02	3,922.3	-280.9	-662.7	-280.9	0.00	0.00	
4,100.0	13.25	247.02	4,019.7	-289.9	-683.8	-289.9	0.00	0.00	
4,200.0	13.25	247.02	4,117.0	-298.8	-704.9	-298.8	0.00	0.00	
4,300.0	13.25	247.02	4,214.4	-307.8	-726.0	-307.8	0.00	0.00	
4,400.0	13.25	247.02	4,311.7	-316.7	-747.1	-316.7	0.00	0.00	
4,415.7	13.25	247.02	4,327.0	-318.1	-750.4	-318.1	0.00	0.00	Sussex
4,500.0	13.25	247.02	4,409.0	-325.7	-768.2	-325.7	0.00	0.00	
4,600.0	13.25	247.02	4,506.4	-334.6	-789.3	-334.6	0.00	0.00	
4,700.0	13.25	247.02	4,603.7	-343.6	-810.4	-343.6	0.00	0.00	
4,704.4	13.25	247.02	4,608.0	-344.0	-811.3	-344.0	0.00	0.00	Sussex Marker

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Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	13.25	247.02	4,701.1	-352.5	-831.5	-352.5	0.00	0.00	
4,900.0	13.25	247.02	4,798.4	-361.5	-852.6	-361.5	0.00	0.00	
5,000.0	13.25	247.02	4,895.7	-370.4	-873.7	-370.4	0.00	0.00	
5,004.4	13.25	247.02	4,900.0	-370.8	-874.6	-370.8	0.00	0.00	Shannon
5,100.0	13.25	247.02	4,993.1	-379.4	-894.8	-379.4	0.00	0.00	
5,200.0	13.25	247.02	5,090.4	-388.3	-915.9	-388.3	0.00	0.00	
5,300.0	13.25	247.02	5,187.7	-397.2	-937.0	-397.2	0.00	0.00	
5,400.0	13.25	247.02	5,285.1	-406.2	-958.1	-406.2	0.00	0.00	
5,500.0	13.25	247.02	5,382.4	-415.1	-979.2	-415.1	0.00	0.00	
5,600.0	13.25	247.02	5,479.8	-424.1	-1,000.3	-424.1	0.00	0.00	
5,700.0	13.25	247.02	5,577.1	-433.0	-1,021.4	-433.0	0.00	0.00	
5,800.0	13.25	247.02	5,674.4	-442.0	-1,042.5	-442.0	0.00	0.00	
5,900.0	13.25	247.02	5,771.8	-450.9	-1,063.6	-450.9	0.00	0.00	
6,000.0	13.25	247.02	5,869.1	-459.9	-1,084.7	-459.9	0.00	0.00	
6,100.0	13.25	247.02	5,966.4	-468.8	-1,105.8	-468.8	0.00	0.00	
6,200.0	13.25	247.02	6,063.8	-477.8	-1,126.9	-477.8	0.00	0.00	
6,300.0	13.25	247.02	6,161.1	-486.7	-1,148.0	-486.7	0.00	0.00	
6,400.0	13.25	247.02	6,258.5	-495.6	-1,169.1	-495.6	0.00	0.00	
6,500.0	13.25	247.02	6,355.8	-504.6	-1,190.2	-504.6	0.00	0.00	
6,600.0	13.25	247.02	6,453.1	-513.5	-1,211.3	-513.5	0.00	0.00	
6,700.0	13.25	247.02	6,550.5	-522.5	-1,232.4	-522.5	0.00	0.00	
6,800.0	13.25	247.02	6,647.8	-531.4	-1,253.5	-531.4	0.00	0.00	
6,900.0	13.25	247.02	6,745.2	-540.4	-1,274.6	-540.4	0.00	0.00	
6,956.3	13.25	247.02	6,800.0	-545.4	-1,286.5	-545.4	0.00	0.00	Teepee Buttes (*if present)
7,000.0	13.25	247.02	6,842.5	-549.3	-1,295.7	-549.3	0.00	0.00	
7,100.0	13.25	247.02	6,939.8	-558.3	-1,316.8	-558.3	0.00	0.00	
7,162.3	13.25	247.02	7,000.5	-563.8	-1,329.9	-563.8	0.00	0.00	Start build/turn @ 7162' MD
7,200.0	12.43	263.64	7,037.2	-566.0	-1,337.9	-566.0	10.00	-2.16	
7,300.0	15.32	304.60	7,134.5	-559.7	-1,359.6	-559.7	10.00	2.88	
7,376.2	20.68	322.37	7,207.0	-543.3	-1,376.1	-543.3	10.00	7.04	Sharon Springs
7,400.0	22.61	326.14	7,229.2	-536.1	-1,381.2	-536.1	10.00	8.12	
7,489.2	30.41	336.00	7,309.0	-501.2	-1,400.0	-501.2	10.00	8.73	Niobrara
7,500.0	31.38	336.87	7,318.2	-496.1	-1,402.2	-496.1	10.00	9.08	
7,560.2	36.94	341.00	7,368.0	-464.6	-1,414.2	-464.6	10.00	9.23	B Chalk
7,600.0	40.68	343.18	7,399.0	-440.8	-1,421.9	-440.8	10.00	9.39	
7,603.9	41.05	343.38	7,402.0	-438.4	-1,422.6	-438.4	10.00	9.45	B Marl
7,695.1	49.74	347.27	7,466.0	-375.6	-1,438.9	-375.6	10.00	9.53	C Chalk
7,700.0	50.21	347.45	7,469.1	-372.0	-1,439.7	-372.0	10.00	9.60	
7,749.2	54.94	349.13	7,499.0	-333.7	-1,447.6	-333.7	10.00	9.63	C Marl
7,800.0	59.86	350.67	7,526.4	-291.6	-1,455.1	-291.6	10.00	9.67	
7,900.0	69.57	353.30	7,569.0	-202.2	-1,467.6	-202.2	10.00	9.71	
7,924.1	71.92	353.88	7,577.0	-179.5	-1,470.2	-179.5	10.00	9.74	Ft. Hayes
8,000.0	79.32	355.62	7,595.8	-106.4	-1,476.9	-106.4	10.00	9.75	
8,000.9	79.41	355.64	7,596.0	-105.5	-1,476.9	-105.5	10.00	9.76	Codell
8,100.0	89.08	357.80	7,605.9	-7.2	-1,482.6	-7.2	10.00	9.76	
8,109.4	90.00	358.00	7,606.0	2.2	-1,482.9	2.2	10.00	9.77	LP @ 7606' TVD; 90°
8,200.0	90.00	358.00	7,606.0	92.7	-1,486.1	92.7	0.00	0.00	
8,300.0	90.00	358.00	7,606.0	192.7	-1,489.5	192.7	0.00	0.00	
8,400.0	90.00	358.00	7,606.0	292.6	-1,493.0	292.6	0.00	0.00	
8,500.0	90.00	358.00	7,606.0	392.6	-1,496.5	392.6	0.00	0.00	
8,600.0	90.00	358.00	7,606.0	492.5	-1,500.0	492.5	0.00	0.00	
8,700.0	90.00	358.00	7,606.0	592.4	-1,503.5	592.4	0.00	0.00	

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Site:	S32-T2N-R68W (File/Hwy 52)	North Reference:	True
Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	358.00	7,606.0	692.4	-1,507.0	692.4	0.00	0.00	
8,900.0	90.00	358.00	7,606.0	792.3	-1,510.5	792.3	0.00	0.00	
9,000.0	90.00	358.00	7,606.0	892.3	-1,514.0	892.3	0.00	0.00	
9,100.0	90.00	358.00	7,606.0	992.2	-1,517.5	992.2	0.00	0.00	
9,200.0	90.00	358.00	7,606.0	1,092.1	-1,521.0	1,092.1	0.00	0.00	
9,300.0	90.00	358.00	7,606.0	1,192.1	-1,524.4	1,192.1	0.00	0.00	
9,400.0	90.00	358.00	7,606.0	1,292.0	-1,527.9	1,292.0	0.00	0.00	
9,500.0	90.00	358.00	7,606.0	1,392.0	-1,531.4	1,392.0	0.00	0.00	
9,600.0	90.00	358.00	7,606.0	1,491.9	-1,534.9	1,491.9	0.00	0.00	
9,700.0	90.00	358.00	7,606.0	1,591.8	-1,538.4	1,591.8	0.00	0.00	
9,800.0	90.00	358.00	7,606.0	1,691.8	-1,541.9	1,691.8	0.00	0.00	
9,900.0	90.00	358.00	7,606.0	1,791.7	-1,545.4	1,791.7	0.00	0.00	
10,000.0	90.00	358.00	7,606.0	1,891.7	-1,548.9	1,891.7	0.00	0.00	
10,100.0	90.00	358.00	7,606.0	1,991.6	-1,552.4	1,991.6	0.00	0.00	
10,200.0	90.00	358.00	7,606.0	2,091.5	-1,555.9	2,091.5	0.00	0.00	
10,300.0	90.00	358.00	7,606.0	2,191.5	-1,559.3	2,191.5	0.00	0.00	
10,400.0	90.00	358.00	7,606.0	2,291.4	-1,562.8	2,291.4	0.00	0.00	
10,500.0	90.00	358.00	7,606.0	2,391.3	-1,566.3	2,391.3	0.00	0.00	
10,600.0	90.00	358.00	7,606.0	2,491.3	-1,569.8	2,491.3	0.00	0.00	
10,700.0	90.00	358.00	7,606.0	2,591.2	-1,573.3	2,591.2	0.00	0.00	
10,800.0	90.00	358.00	7,606.0	2,691.2	-1,576.8	2,691.2	0.00	0.00	
10,900.0	90.00	358.00	7,606.0	2,791.1	-1,580.3	2,791.1	0.00	0.00	
11,000.0	90.00	358.00	7,606.0	2,891.0	-1,583.8	2,891.0	0.00	0.00	
11,100.0	90.00	358.00	7,606.0	2,991.0	-1,587.3	2,991.0	0.00	0.00	
11,200.0	90.00	358.00	7,606.0	3,090.9	-1,590.8	3,090.9	0.00	0.00	
11,227.4	90.00	358.00	7,606.0	3,118.3	-1,591.7	3,118.3	0.00	0.00	TD at 11227.4 - File 3I-32H-K268 PBHL

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
File 3I-32H-K268 PBHL	0.00	0.00	7,606.0	3,118.3	-1,591.7	1,280,027.19	3,129,611.15	40.101130	-105.036690
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
271.0	271.0	Fox Hills - BASE				
4,415.7	4,327.0	Sussex				
4,704.4	4,608.0	Sussex Marker				
5,004.4	4,900.0	Shannon				
6,956.3	6,800.0	Teepee Buttes (*if present)				
7,376.2	7,207.0	Sharon Springs				
7,489.2	7,309.0	Niobrara				
7,560.2	7,368.0	B Chalk				
7,603.9	7,402.0	B Marl				
7,695.1	7,466.0	C Chalk				
7,749.2	7,499.0	C Marl				
7,924.1	7,577.0	Ft. Hayes				
8,000.9	7,596.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
1,524.9	1,513.1	-59.5	-140.4	EOB; Inc=13.25°	
7,162.3	7,000.5	-563.8	-1,329.9	Start build/turn @ 7162' MD	
8,109.4	7,606.0	2.2	-1,482.9	LP @ 7606' TVD; 90°	
11,227.4	7,606.0	3,118.3	-1,591.7	TD at 11227.4	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File/Hwy 52)

File 3I-32H-K268

Hz

Plan #2

Anticollision Report

09 July, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	7/9/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,227.4	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON 31-32 (EXISTING) - ENCANA WELL - PLAN						Out of range
ANDERSON 32-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 32-7 (EXISTING) - KPK WELL - NO SURVE						Out of range
ANDERSON 41-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 42-32 (EXISTING) - BASIN EXP WELL - NO						Out of range
ANDERSON 4-2-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 6-4-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON TRUST 1 (EXISTING) - KPK WELL - NO S						Out of range
ANDERSON TRUST 1 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 32-2 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST 32-8 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C 1 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
BULTHAUP 39-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
BULTHAUP 40-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
CANINO 1-X (EXISTING) - ENCANA WELL - NO SURVE						Out of range
CANINO 2 (EXISTING) - HUGHES CW WELL - NO SUR						Out of range
CANINO 3 (EXISTING) - HUGHES CW WELL - NO SUR						Out of range
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3A-32H-K268 - Hz - Plan #2	200.0	199.0	61.6	60.9	94.546	CC
File 3A-32H-K268 - Hz - Plan #2	600.0	594.9	62.1	60.1	30.306	ES
File 3A-32H-K268 - Hz - Plan #2	7,200.0	7,261.9	283.3	231.4	5.452	SF
File 3B-32H-K268 - Hz - Plan #1	710.6	705.6	51.4	48.9	20.859	CC
File 3B-32H-K268 - Hz - Plan #1	800.0	794.2	51.7	48.8	18.394	ES
File 3B-32H-K268 - Hz - Plan #1	7,800.0	7,877.9	104.5	74.3	3.457	SF
File 3C-32H-K268 - Hz - Plan #1	1,186.4	1,180.4	30.9	26.2	6.553	CC
File 3C-32H-K268 - Hz - Plan #1	1,300.0	1,293.7	31.4	25.9	5.724	ES
File 3C-32H-K268 - Hz - Plan #1	1,600.0	1,593.0	37.4	29.6	4.791	SF
File 3D-32H-K268 - Hz - Plan #1	833.7	830.1	28.9	25.9	9.653	CC, ES
File 3D-32H-K268 - Hz - Plan #1	1,000.0	995.4	32.4	28.6	8.532	SF
File 3E-32H-K268 - Hz - Plan #1	751.0	749.9	13.8	11.1	5.147	CC, ES
File 3E-32H-K268 - Hz - Plan #1	800.0	798.6	14.5	11.6	5.021	SF
File 3F-32H-K268 - Hz - Plan #1	699.5	698.9	13.2	10.7	5.315	CC
File 3F-32H-K268 - Hz - Plan #1	700.0	699.4	13.2	10.7	5.311	ES, SF
File 3G-32H-K268 - Hz - Plan #1	641.4	641.1	7.1	4.8	3.135	CC, ES, SF
File 3H-32H-K268 - Hz - Plan #1	532.1	532.0	7.9	6.1	4.314	CC, ES, SF
File 3J-32H-K268 - Hz - Plan #1	200.0	200.0	6.7	6.0	10.232	CC, ES
File 3J-32H-K268 - Hz - Plan #1	1,500.0	1,502.4	19.6	14.0	3.460	SF
File 3K-32H-K268 - Hz - Plan #1	200.0	200.0	11.2	10.5	17.144	CC, ES
File 3K-32H-K268 - Hz - Plan #1	1,300.0	1,303.0	43.8	39.0	8.992	SF
File 3L-32H-K268 - Hz - Plan #1	200.0	200.0	14.5	13.8	22.147	CC, ES
File 3L-32H-K268 - Hz - Plan #1	600.0	600.3	26.6	24.5	12.971	SF

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S32-T2N-R68W (File/Hwy 52)						
File 3M-32H-K268 - Hz - Plan #1	200.0	200.0	30.8	30.1	47.147	CC, ES
File 3M-32H-K268 - Hz - Plan #1	800.0	800.2	50.8	47.9	17.261	SF
File 3N-32H-K268 - Hz - Plan #1	200.0	200.0	33.8	33.1	51.735	CC, ES
File 3N-32H-K268 - Hz - Plan #1	700.0	698.8	56.4	54.0	23.084	SF
File 3O-32H-K268 - Hz - Plan #1	200.0	200.0	39.2	38.5	60.005	CC, ES
File 3O-32H-K268 - Hz - Plan #1	600.0	597.5	58.7	56.7	28.427	SF
File 3P-32H-K268 - Hz - Plan #1	200.0	200.0	44.9	44.3	68.804	CC, ES
File 3P-32H-K268 - Hz - Plan #1	600.0	596.3	68.6	66.5	33.230	SF
FOSTER 33-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 43-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 4-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5X (EXISTING) - ENCANA WELL - SURVE						Out of range
FOSTER 6-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 8-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER E UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU						Out of range
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
Hwy 52 4A-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4B-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4C-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4D-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4E-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4F-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4G-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4H-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4I-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4J-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4K-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4L-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4M-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4N-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4O-32H-O268 - Hz - Plan #1						Out of range
Hwy 52 4P-32H-O268 - Hz - Plan #1						Out of range
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	4,773.6	4,647.3	352.6	326.4	13.415	CC
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	4,800.0	4,673.1	352.7	326.3	13.336	ES
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV	5,000.0	4,867.7	356.4	328.9	12.953	SF
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	200.0	199.0	371.5	370.9	552.158	CC, ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	1,400.0	1,390.2	496.0	491.2	103.177	SF
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU	5,208.5	5,035.0	350.5	323.9	13.189	CC, ES, SF
NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	3,797.5	3,714.2	300.9	280.6	14.797	CC
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	3,800.0	3,716.7	300.9	280.5	14.786	ES
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S	4,100.0	4,008.7	308.8	286.9	14.102	SF
NELSON E UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO	9,224.3	7,673.7	76.8	34.2	1.803	CC, ES, SF
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU	3,659.7	3,627.6	294.4	274.0	14.409	CC
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU	3,700.0	3,666.1	294.6	273.9	14.238	ES
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU	8,500.0	7,764.9	333.8	292.3	8.055	SF
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	200.0	103.0	496.0	495.5	979.655	CC, ES
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	400.0	303.0	499.5	498.3	414.864	SF
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN						Out of range
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN						Out of range
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN						Out of range
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	125.7	128.7	499.3	498.9	1,264.445	CC, ES
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	200.0	195.9	499.8	499.2	779.378	SF
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	189.1	192.1	499.6	499.0	812.492	CC
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	200.0	201.9	499.6	499.0	767.345	ES, SF
RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
Ray Nelson 7-8-32 - DD - Plan #1						Out of range
RAY NELSON 8-4-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-6-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU						Out of range
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3A-32H-K268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-61.6	61.6					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-61.6	61.6	61.2	0.30	203.695		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-61.6	61.6	60.9	0.65	94.546 CC		
300.0	300.0	298.0	298.0	0.5	0.5	23.12	-0.2	-62.4	61.6	60.6	1.00	61.670		
400.0	400.0	396.9	396.9	0.7	0.7	23.52	-0.8	-64.8	61.7	60.3	1.35	45.797		
500.0	499.9	495.9	495.8	0.9	0.9	24.19	-1.7	-69.0	61.9	60.2	1.70	36.457		
600.0	599.7	594.9	594.5	1.1	1.1	25.11	-3.1	-74.8	62.1	60.1	2.05	30.306 ES		
700.0	699.4	693.8	693.2	1.3	1.3	26.29	-4.8	-82.3	62.5	60.1	2.41	25.948		
800.0	798.9	792.8	791.7	1.5	1.5	27.70	-6.9	-91.4	63.0	60.2	2.78	22.692		
900.0	898.3	891.7	890.0	1.8	1.7	29.34	-9.4	-102.2	63.7	60.5	3.16	20.157		
1,000.0	997.4	990.6	988.1	2.0	2.0	31.18	-12.3	-114.6	64.5	60.9	3.56	18.115		
1,100.0	1,096.3	1,089.6	1,086.0	2.3	2.3	33.21	-15.6	-128.7	65.5	61.5	3.99	16.421		
1,200.0	1,194.9	1,188.5	1,183.6	2.7	2.6	35.40	-19.2	-144.4	66.7	62.3	4.45	14.981		
1,300.0	1,293.3	1,287.4	1,280.9	3.0	3.0	37.72	-23.3	-161.8	68.2	63.2	4.97	13.733		
1,400.0	1,391.2	1,386.3	1,377.9	3.4	3.3	40.14	-27.7	-180.8	69.9	64.4	5.53	12.636		
1,500.0	1,488.9	1,485.2	1,474.5	3.8	3.8	42.63	-32.5	-201.4	71.9	65.8	6.17	11.663		
1,600.0	1,586.2	1,584.1	1,570.7	4.2	4.2	44.90	-37.6	-223.6	74.6	67.8	6.86	10.881		
1,700.0	1,683.6	1,683.8	1,667.4	4.7	4.6	46.54	-43.1	-247.1	78.3	70.7	7.56	10.356		
1,800.0	1,780.9	1,783.7	1,764.3	5.1	5.1	48.03	-48.6	-270.7	82.0	73.8	8.29	9.901		
1,900.0	1,878.2	1,883.6	1,861.2	5.5	5.5	49.38	-54.1	-294.3	85.8	76.8	9.03	9.504		
2,000.0	1,975.6	1,983.5	1,958.2	5.9	6.0	50.62	-59.5	-317.9	89.7	79.9	9.80	9.156		
2,100.0	2,072.9	2,083.4	2,055.1	6.4	6.4	51.76	-65.0	-341.5	93.6	83.0	10.57	8.850		
2,200.0	2,170.3	2,183.3	2,152.0	6.8	6.9	52.81	-70.5	-365.1	97.5	86.1	11.36	8.581		
2,300.0	2,267.6	2,283.2	2,248.9	7.3	7.4	53.77	-76.0	-388.7	101.5	89.3	12.16	8.341		
2,400.0	2,364.9	2,383.1	2,345.9	7.7	7.8	54.66	-81.5	-412.3	105.4	92.5	12.97	8.128		
2,500.0	2,462.3	2,483.0	2,442.8	8.1	8.3	55.49	-86.9	-435.9	109.4	95.7	13.79	7.938		
2,600.0	2,559.6	2,583.0	2,539.7	8.6	8.7	56.26	-92.4	-459.5	113.5	98.9	14.61	7.767		
2,700.0	2,656.9	2,682.9	2,636.6	9.0	9.2	56.97	-97.9	-483.1	117.5	102.1	15.44	7.612		
2,800.0	2,754.3	2,782.8	2,733.6	9.4	9.7	57.64	-103.4	-506.7	121.6	105.3	16.27	7.473		
2,900.0	2,851.6	2,882.7	2,830.5	9.9	10.1	58.27	-108.9	-530.3	125.7	108.5	17.11	7.346		
3,000.0	2,949.0	2,982.6	2,927.4	10.3	10.6	58.85	-114.3	-553.9	129.7	111.8	17.95	7.230		
3,100.0	3,046.3	3,082.5	3,024.3	10.8	11.1	59.40	-119.8	-577.5	133.8	115.1	18.79	7.124		
3,200.0	3,143.6	3,182.4	3,121.3	11.2	11.5	59.92	-125.3	-601.1	138.0	118.3	19.63	7.027		
3,300.0	3,241.0	3,282.3	3,218.2	11.7	12.0	60.40	-130.8	-624.7	142.1	121.6	20.48	6.938		
3,400.0	3,338.3	3,382.2	3,315.1	12.1	12.4	60.86	-136.3	-648.3	146.2	124.9	21.33	6.855		
3,500.0	3,435.7	3,482.1	3,412.0	12.5	12.9	61.30	-141.8	-671.9	150.4	128.2	22.18	6.779		
3,600.0	3,533.0	3,582.0	3,509.0	13.0	13.4	61.71	-147.2	-695.5	154.5	131.5	23.03	6.708		
3,700.0	3,630.3	3,681.9	3,605.9	13.4	13.8	62.10	-152.7	-719.1	158.7	134.8	23.89	6.643		
3,800.0	3,727.7	3,781.8	3,702.8	13.9	14.3	62.47	-158.2	-742.7	162.8	138.1	24.74	6.581		
3,900.0	3,825.0	3,881.8	3,799.7	14.3	14.8	62.82	-163.7	-766.3	167.0	141.4	25.60	6.524		
4,000.0	3,922.3	3,981.7	3,896.7	14.7	15.2	63.15	-169.2	-789.9	171.2	144.7	26.46	6.471		
4,100.0	4,019.7	4,081.6	3,993.6	15.2	15.7	63.47	-174.6	-813.5	175.4	148.1	27.32	6.420		
4,200.0	4,117.0	4,181.5	4,090.5	15.6	16.2	63.77	-180.1	-837.2	179.6	151.4	28.17	6.373		
4,300.0	4,214.4	4,281.4	4,187.4	16.1	16.6	64.06	-185.6	-860.8	183.8	154.7	29.04	6.329		
4,400.0	4,311.7	4,381.3	4,284.4	16.5	17.1	64.34	-191.1	-884.4	188.0	158.1	29.90	6.287		
4,500.0	4,409.0	4,481.2	4,381.3	17.0	17.6	64.60	-196.6	-908.0	192.2	161.4	30.76	6.248		
4,600.0	4,506.4	4,581.1	4,478.2	17.4	18.0	64.86	-202.0	-931.6	196.4	164.7	31.62	6.210		
4,700.0	4,603.7	4,681.0	4,575.1	17.8	18.5	65.10	-207.5	-955.2	200.6	168.1	32.48	6.175		
4,800.0	4,701.1	4,780.9	4,672.1	18.3	19.0	65.33	-213.0	-978.8	204.8	171.4	33.34	6.142		
4,900.0	4,798.4	4,880.8	4,769.0	18.7	19.4	65.55	-218.5	-1,002.4	209.0	174.8	34.21	6.110		
5,000.0	4,895.7	4,980.7	4,865.9	19.2	19.9	65.77	-224.0	-1,026.0	213.2	178.2	35.07	6.080		
5,100.0	4,993.1	5,080.6	4,962.9	19.6	20.4	65.97	-229.4	-1,049.6	217.5	181.5	35.94	6.051		

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 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3A-32H-K268 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						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	5,090.4	5,180.6	5,059.8	20.1	20.8	66.17	-234.9	-1,073.2	221.7	184.9	36.80	6.024		
5,300.0	5,187.7	5,280.5	5,156.7	20.5	21.3	66.36	-240.4	-1,096.8	225.9	188.2	37.66	5.998		
5,400.0	5,285.1	5,380.4	5,253.6	21.0	21.8	66.54	-245.9	-1,120.4	230.1	191.6	38.53	5.973		
5,500.0	5,382.4	5,480.3	5,350.6	21.4	22.2	66.72	-251.4	-1,144.0	234.4	195.0	39.39	5.949		
5,600.0	5,479.8	5,580.2	5,447.5	21.8	22.7	66.89	-256.9	-1,167.6	238.6	198.3	40.26	5.926		
5,700.0	5,577.1	5,680.1	5,544.4	22.3	23.2	67.06	-262.3	-1,191.2	242.8	201.7	41.13	5.905		
5,800.0	5,674.4	5,780.0	5,641.3	22.7	23.6	67.22	-267.8	-1,214.8	247.1	205.1	41.99	5.884		
5,900.0	5,771.8	5,879.9	5,738.3	23.2	24.1	67.37	-273.3	-1,238.4	251.3	208.5	42.86	5.864		
6,000.0	5,869.1	5,979.8	5,835.2	23.6	24.6	67.52	-278.8	-1,262.0	255.6	211.8	43.72	5.845		
6,100.0	5,966.4	6,079.7	5,932.1	24.1	25.0	67.66	-284.3	-1,285.6	259.8	215.2	44.59	5.826		
6,200.0	6,063.8	6,179.6	6,029.0	24.5	25.5	67.80	-289.7	-1,309.2	264.1	218.6	45.46	5.809		
6,300.0	6,161.1	6,279.5	6,126.0	24.9	26.0	67.94	-295.2	-1,332.8	268.3	222.0	46.32	5.792		
6,400.0	6,258.5	6,379.4	6,222.9	25.4	26.5	68.07	-300.7	-1,356.4	272.5	225.4	47.19	5.775		
6,500.0	6,355.8	6,479.4	6,319.8	25.8	26.9	68.19	-306.2	-1,380.0	276.8	228.7	48.06	5.760		
6,600.0	6,453.1	6,579.3	6,416.7	26.3	27.4	68.32	-311.7	-1,403.6	281.0	232.1	48.92	5.745		
6,700.0	6,550.5	6,679.2	6,513.7	26.7	27.9	68.44	-317.1	-1,427.2	285.3	235.5	49.79	5.730		
6,800.0	6,647.8	6,779.1	6,610.6	27.2	28.3	68.55	-322.6	-1,450.8	289.6	238.9	50.66	5.716		
6,900.0	6,745.2	6,879.0	6,707.5	27.6	28.8	68.66	-328.1	-1,474.4	293.8	242.3	51.53	5.702		
7,000.0	6,842.5	6,978.9	6,804.4	28.1	29.3	68.77	-333.6	-1,498.0	298.1	245.7	52.39	5.689		
7,100.0	6,939.8	7,111.0	6,932.0	28.5	29.9	68.10	-347.0	-1,529.0	299.5	246.3	53.21	5.629		
7,200.0	7,037.2	7,261.9	7,070.1	28.9	30.8	45.22	-396.3	-1,562.3	283.3	231.4	51.97	5.452 SF		
7,300.0	7,134.5	7,374.9	7,162.9	29.3	31.5	-10.68	-456.6	-1,584.4	249.0	204.7	44.38	5.611		
7,400.0	7,229.2	7,443.1	7,212.7	29.5	31.9	-48.12	-501.7	-1,596.1	218.2	183.5	34.74	6.282		
7,452.8	7,277.1	7,464.7	7,227.3	29.6	32.1	-59.85	-517.2	-1,599.6	212.8	181.1	31.76	6.700		
7,500.0	7,318.2	7,477.4	7,235.7	29.6	32.1	-66.36	-526.5	-1,601.5	217.5	187.0	30.53	7.124		
7,600.0	7,399.0	7,488.7	7,243.0	29.7	32.2	-70.16	-535.1	-1,603.2	256.5	225.7	30.80	8.330		
7,700.0	7,469.1	7,485.1	7,240.7	29.8	32.2	-63.36	-532.3	-1,602.7	322.5	289.5	33.07	9.752		
7,800.0	7,526.4	7,471.4	7,231.8	29.8	32.1	-50.06	-522.1	-1,600.6	400.6	366.8	33.86	11.832		
7,900.0	7,569.0	7,450.0	7,217.4	29.8	32.0	-35.73	-506.6	-1,597.2	482.1	451.8	30.28	15.920		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-86.27	3.6	-56.0	56.1					
100.0	100.0	99.0	99.0	0.2	0.2	-86.27	3.6	-56.0	56.1	55.8	0.30	185.570		
200.0	200.0	199.0	199.0	0.3	0.3	-86.27	3.6	-56.0	56.1	55.4	0.65	86.133		
300.0	300.0	299.0	299.0	0.5	0.5	27.11	3.6	-56.0	55.3	54.3	1.00	55.285		
400.0	400.0	398.0	398.0	0.7	0.7	28.40	3.7	-56.8	53.8	52.5	1.35	39.914		
500.0	499.9	497.1	497.1	0.9	0.8	30.64	4.0	-59.3	52.6	50.9	1.70	30.956		
600.0	599.7	596.1	596.0	1.1	1.0	33.87	4.4	-63.6	51.7	49.7	2.06	25.170		
700.0	699.4	695.2	694.9	1.3	1.2	38.06	4.9	-69.5	51.4	48.9	2.42	21.205		
710.6	709.9	705.6	705.3	1.3	1.2	38.56	5.0	-70.2	51.4	48.9	2.46	20.859 CC		
800.0	798.9	794.2	793.6	1.5	1.4	43.11	5.6	-77.2	51.7	48.8	2.81	18.394 ES		
900.0	898.3	893.2	892.2	1.8	1.7	48.83	6.5	-86.5	52.8	49.6	3.23	16.368		
1,000.0	997.4	992.2	990.5	2.0	1.9	54.91	7.5	-97.5	55.0	51.3	3.69	14.903		
1,100.0	1,096.3	1,091.1	1,088.6	2.3	2.2	61.02	8.7	-110.2	58.4	54.2	4.22	13.854		
1,200.0	1,194.9	1,189.9	1,186.4	2.7	2.5	66.88	10.1	-124.6	63.1	58.2	4.81	13.121		
1,300.0	1,293.3	1,288.7	1,283.8	3.0	2.8	72.24	11.6	-140.7	69.0	63.5	5.46	12.629		
1,400.0	1,391.2	1,387.4	1,380.9	3.4	3.1	77.01	13.2	-158.4	76.2	70.0	6.18	12.316		
1,500.0	1,488.9	1,486.7	1,478.3	3.8	3.5	81.47	15.0	-177.3	84.2	77.3	6.96	12.099		
1,600.0	1,586.2	1,586.1	1,575.9	4.2	3.8	85.94	16.7	-196.4	92.6	84.9	7.77	11.922		
1,700.0	1,683.6	1,685.5	1,673.5	4.7	4.2	89.69	18.5	-215.4	101.5	93.0	8.58	11.830		
1,800.0	1,780.9	1,784.9	1,771.0	5.1	4.5	92.84	20.3	-234.4	110.8	101.4	9.39	11.797		
1,900.0	1,878.2	1,884.3	1,868.6	5.5	4.9	95.49	22.1	-253.4	120.3	110.1	10.20	11.802		
2,000.0	1,975.6	1,983.7	1,966.1	5.9	5.3	97.75	23.8	-272.4	130.1	119.1	11.00	11.830		
2,100.0	2,072.9	2,083.1	2,063.7	6.4	5.7	99.69	25.6	-291.4	140.0	128.2	11.79	11.874		
2,200.0	2,170.3	2,182.5	2,161.2	6.8	6.0	101.38	27.4	-310.4	150.1	137.5	12.58	11.928		
2,300.0	2,267.6	2,281.9	2,258.8	7.3	6.4	102.85	29.2	-329.4	160.3	146.9	13.37	11.986		
2,400.0	2,364.9	2,381.3	2,356.3	7.7	6.8	104.14	30.9	-348.4	170.5	156.4	14.16	12.047		
2,500.0	2,462.3	2,480.7	2,453.9	8.1	7.2	105.29	32.7	-367.4	180.9	165.9	14.94	12.109		
2,600.0	2,559.6	2,580.1	2,551.4	8.6	7.5	106.31	34.5	-386.4	191.3	175.6	15.72	12.171		
2,700.0	2,656.9	2,679.5	2,649.0	9.0	7.9	107.23	36.3	-405.4	201.8	185.3	16.49	12.232		
2,800.0	2,754.3	2,778.9	2,746.5	9.4	8.3	108.06	38.0	-424.4	212.3	195.0	17.27	12.291		
2,900.0	2,851.6	2,878.3	2,844.1	9.9	8.7	108.81	39.8	-443.4	222.8	204.8	18.05	12.348		
3,000.0	2,949.0	2,977.7	2,941.6	10.3	9.0	109.49	41.6	-462.4	233.4	214.6	18.82	12.403		
3,100.0	3,046.3	3,077.1	3,039.2	10.8	9.4	110.11	43.4	-481.5	244.0	224.4	19.59	12.456		
3,200.0	3,143.6	3,176.5	3,136.7	11.2	9.8	110.68	45.1	-500.5	254.7	234.3	20.36	12.507		
3,300.0	3,241.0	3,275.9	3,234.3	11.7	10.2	111.21	46.9	-519.5	265.3	244.2	21.13	12.556		
3,400.0	3,338.3	3,375.3	3,331.8	12.1	10.5	111.69	48.7	-538.5	276.0	254.1	21.90	12.603		
3,500.0	3,435.7	3,474.7	3,429.4	12.5	10.9	112.14	50.5	-557.5	286.7	264.0	22.67	12.648		
3,600.0	3,533.0	3,574.1	3,526.9	13.0	11.3	112.55	52.2	-576.5	297.4	274.0	23.44	12.691		
3,700.0	3,630.3	3,673.5	3,624.5	13.4	11.7	112.94	54.0	-595.5	308.2	284.0	24.21	12.732		
3,800.0	3,727.7	3,772.9	3,722.0	13.9	12.1	113.30	55.8	-614.5	318.9	293.9	24.97	12.771		
3,900.0	3,825.0	3,872.3	3,819.6	14.3	12.4	113.64	57.5	-633.5	329.7	303.9	25.74	12.809		
4,000.0	3,922.3	3,971.7	3,917.1	14.7	12.8	113.95	59.3	-652.5	340.4	313.9	26.50	12.845		
4,100.0	4,019.7	4,071.1	4,014.7	15.2	13.2	114.25	61.1	-671.5	351.2	324.0	27.27	12.879		
4,200.0	4,117.0	4,170.6	4,112.2	15.6	13.6	114.53	62.9	-690.5	362.0	334.0	28.04	12.912		
4,300.0	4,214.4	4,270.0	4,209.8	16.1	14.0	114.79	64.6	-709.5	372.8	344.0	28.80	12.944		
4,400.0	4,311.7	4,369.4	4,307.3	16.5	14.3	115.04	66.4	-728.5	383.6	354.0	29.57	12.975		
4,500.0	4,409.0	4,468.8	4,404.9	17.0	14.7	115.27	68.2	-747.5	394.4	364.1	30.33	13.004		
4,600.0	4,506.4	4,568.2	4,502.4	17.4	15.1	115.50	70.0	-766.6	405.2	374.1	31.09	13.032		
4,700.0	4,603.7	4,667.6	4,600.0	17.8	15.5	115.71	71.7	-785.6	416.1	384.2	31.86	13.059		
4,800.0	4,701.1	4,767.0	4,697.5	18.3	15.9	115.91	73.5	-804.6	426.9	394.3	32.62	13.085		
4,900.0	4,798.4	4,866.4	4,795.1	18.7	16.2	116.09	75.3	-823.6	437.7	404.3	33.39	13.111		
5,000.0	4,895.7	4,965.8	4,892.6	19.2	16.6	116.28	77.1	-842.6	448.5	414.4	34.15	13.135		

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 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3B-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	4,993.1	5,065.2	4,990.2	19.6	17.0	116.45	78.8	-861.6	459.4	424.5	34.91	13.158		
5,200.0	5,090.4	5,164.6	5,087.8	20.1	17.4	116.61	80.6	-880.6	470.2	434.6	35.68	13.180		
5,300.0	5,187.7	5,264.0	5,185.3	20.5	17.8	116.77	82.4	-899.6	481.1	444.6	36.44	13.202		
5,400.0	5,285.1	5,363.4	5,282.9	21.0	18.1	116.92	84.2	-918.6	491.9	454.7	37.20	13.223		
7,300.0	7,134.5	8,160.3	7,606.0	29.3	29.2	-176.71	-559.7	-1,371.2	472.6	421.3	51.28	9.215		
7,400.0	7,229.2	8,136.8	7,606.0	29.5	29.1	176.85	-536.1	-1,371.2	378.0	324.9	53.10	7.118		
7,500.0	7,318.2	8,096.8	7,606.0	29.6	28.8	169.96	-496.1	-1,371.2	290.4	240.6	49.86	5.824		
7,600.0	7,399.0	8,033.3	7,605.5	29.7	28.4	160.05	-432.6	-1,371.1	213.7	169.4	44.36	4.819		
7,700.0	7,469.1	7,950.8	7,596.3	29.8	28.0	142.36	-350.8	-1,369.4	147.7	110.8	36.89	4.005		
7,800.0	7,526.4	7,877.9	7,578.6	29.8	27.6	117.92	-280.2	-1,365.9	104.5	74.3	30.23	3.457 SF		
7,841.9	7,546.1	7,849.2	7,569.2	29.8	27.5	105.62	-253.1	-1,364.1	99.6	71.1	28.56	3.489		
7,900.0	7,569.0	7,810.7	7,554.6	29.8	27.3	88.39	-217.6	-1,361.2	108.3	81.2	27.16	3.989		
8,000.0	7,595.8	7,750.0	7,526.9	29.9	27.0	64.93	-163.9	-1,355.8	150.2	125.5	24.69	6.084		
8,100.0	7,605.9	7,685.9	7,491.8	30.0	26.8	49.29	-110.7	-1,349.0	203.4	181.7	21.70	9.373		
8,200.0	7,606.0	7,629.7	7,456.4	30.2	26.6	42.94	-67.7	-1,342.1	261.9	241.1	20.71	12.641		
8,300.0	7,606.0	7,582.2	7,423.3	30.5	26.4	38.77	-34.3	-1,335.7	328.9	308.6	20.31	16.193		
8,400.0	7,606.0	7,550.0	7,399.4	30.9	26.3	36.35	-13.2	-1,331.0	402.5	382.2	20.34	19.786		
8,500.0	7,606.0	7,500.0	7,360.1	31.4	26.2	33.15	16.7	-1,323.3	480.8	460.6	20.25	23.747		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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 Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-50.4	50.4					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-50.4	50.4	50.1	0.30	166.659		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-50.4	50.4	49.7	0.65	77.356		
300.0	300.0	299.0	299.0	0.5	0.5	23.37	0.0	-50.4	49.6	48.6	1.00	49.550		
400.0	400.0	399.0	399.0	0.7	0.7	24.64	0.0	-50.4	47.2	45.8	1.35	34.943		
500.0	499.9	498.2	498.1	0.9	0.8	26.70	-0.2	-51.2	44.0	42.3	1.70	25.909		
600.0	599.7	597.4	597.4	1.1	1.0	29.39	-0.9	-53.6	41.1	39.0	2.05	19.996		
700.0	699.4	696.7	696.6	1.3	1.2	32.83	-1.9	-57.8	38.3	35.9	2.42	15.853		
800.0	798.9	796.0	795.7	1.5	1.4	37.12	-3.5	-63.6	35.9	33.1	2.80	12.817		
900.0	898.3	895.5	894.8	1.8	1.6	42.37	-5.4	-71.1	33.8	30.6	3.21	10.526		
1,000.0	997.4	994.9	993.9	2.0	1.8	48.58	-7.8	-80.2	32.2	28.5	3.67	8.773		
1,100.0	1,096.3	1,094.4	1,092.8	2.3	2.1	55.64	-10.6	-91.0	31.2	27.0	4.19	7.435		
1,186.4	1,181.5	1,180.4	1,178.0	2.6	2.3	62.23	-13.4	-101.7	30.9	26.2	4.72	6.553	CC	
1,200.0	1,194.9	1,194.0	1,191.5	2.7	2.3	63.30	-13.9	-103.5	30.9	26.1	4.80	6.437		
1,300.0	1,293.3	1,293.7	1,290.0	3.0	2.6	71.14	-17.6	-117.6	31.4	25.9	5.49	5.724	ES	
1,400.0	1,391.2	1,393.3	1,388.4	3.4	2.9	78.72	-21.7	-133.5	32.7	26.5	6.24	5.244		
1,500.0	1,488.9	1,493.2	1,486.6	3.8	3.3	86.47	-26.2	-150.5	34.7	27.7	7.03	4.938		
1,600.0	1,586.2	1,593.0	1,584.9	4.2	3.6	95.11	-30.6	-167.5	37.4	29.6	7.80	4.791	SF	
1,700.0	1,683.6	1,692.8	1,683.1	4.7	3.9	102.56	-35.1	-184.6	40.8	32.3	8.50	4.796		
1,800.0	1,780.9	1,792.6	1,781.4	5.1	4.3	108.77	-39.6	-201.7	44.7	35.6	9.13	4.897		
1,900.0	1,878.2	1,892.4	1,879.6	5.5	4.6	113.93	-44.0	-218.8	49.1	39.4	9.72	5.054		
2,000.0	1,975.6	1,992.2	1,977.9	5.9	4.9	118.21	-48.5	-235.8	53.9	43.6	10.27	5.243		
2,100.0	2,072.9	2,092.1	2,076.1	6.4	5.3	121.78	-52.9	-252.9	58.9	48.1	10.80	5.448		
2,200.0	2,170.3	2,191.9	2,174.3	6.8	5.6	124.78	-57.4	-270.0	64.0	52.7	11.32	5.659		
2,300.0	2,267.6	2,291.7	2,272.6	7.3	6.0	127.33	-61.9	-287.0	69.4	57.5	11.82	5.870		
2,400.0	2,364.9	2,391.5	2,370.8	7.7	6.3	129.51	-66.3	-304.1	74.8	62.5	12.31	6.076		
2,500.0	2,462.3	2,491.3	2,469.1	8.1	6.7	131.40	-70.8	-321.2	80.4	67.6	12.80	6.277		
2,600.0	2,559.6	2,591.1	2,567.3	8.6	7.0	133.04	-75.3	-338.2	86.0	72.7	13.29	6.469		
2,700.0	2,656.9	2,690.9	2,665.5	9.0	7.4	134.47	-79.7	-355.3	91.7	77.9	13.77	6.654		
2,800.0	2,754.3	2,790.7	2,763.8	9.4	7.7	135.74	-84.2	-372.4	97.4	83.1	14.26	6.831		
2,900.0	2,851.6	2,890.6	2,862.0	9.9	8.1	136.87	-88.6	-389.4	103.2	88.4	14.74	6.999		
3,000.0	2,949.0	2,990.4	2,960.3	10.3	8.4	137.88	-93.1	-406.5	109.0	93.7	15.22	7.159		
3,100.0	3,046.3	3,090.2	3,058.5	10.8	8.8	138.78	-97.6	-423.6	114.8	99.1	15.70	7.311		
3,200.0	3,143.6	3,190.0	3,156.8	11.2	9.2	139.60	-102.0	-440.6	120.7	104.5	16.18	7.456		
3,300.0	3,241.0	3,289.8	3,255.0	11.7	9.5	140.34	-106.5	-457.7	126.5	109.9	16.67	7.593		
3,400.0	3,338.3	3,389.6	3,353.2	12.1	9.9	141.02	-110.9	-474.8	132.4	115.3	17.15	7.724		
3,500.0	3,435.7	3,489.4	3,451.5	12.5	10.2	141.64	-115.4	-491.8	138.4	120.7	17.63	7.849		
3,600.0	3,533.0	3,589.3	3,549.7	13.0	10.6	142.20	-119.9	-508.9	144.3	126.2	18.11	7.968		
3,700.0	3,630.3	3,689.1	3,648.0	13.4	10.9	142.73	-124.3	-526.0	150.3	131.7	18.59	8.081		
3,800.0	3,727.7	3,788.9	3,746.2	13.9	11.3	143.21	-128.8	-543.0	156.2	137.1	19.08	8.189		
3,900.0	3,825.0	3,888.7	3,844.5	14.3	11.6	143.66	-133.3	-560.1	162.2	142.6	19.56	8.292		
4,000.0	3,922.3	3,988.5	3,942.7	14.7	12.0	144.07	-137.7	-577.2	168.2	148.1	20.04	8.391		
4,100.0	4,019.7	4,088.3	4,040.9	15.2	12.3	144.46	-142.2	-594.2	174.2	153.6	20.52	8.485		
4,200.0	4,117.0	4,188.1	4,139.2	15.6	12.7	144.82	-146.6	-611.3	180.1	159.1	21.01	8.575		
4,300.0	4,214.4	4,288.0	4,237.4	16.1	13.1	145.16	-151.1	-628.4	186.2	164.7	21.49	8.661		
4,400.0	4,311.7	4,387.8	4,335.7	16.5	13.4	145.47	-155.6	-645.4	192.2	170.2	21.98	8.744		
4,500.0	4,409.0	4,487.6	4,433.9	17.0	13.8	145.77	-160.0	-662.5	198.2	175.7	22.46	8.823		
4,600.0	4,506.4	4,587.4	4,532.2	17.4	14.1	146.05	-164.5	-679.6	204.2	181.2	22.94	8.899		
4,700.0	4,603.7	4,687.2	4,630.4	17.8	14.5	146.31	-168.9	-696.6	210.2	186.8	23.43	8.972		
4,800.0	4,701.1	4,787.0	4,728.6	18.3	14.8	146.56	-173.4	-713.7	216.2	192.3	23.91	9.043		
4,900.0	4,798.4	4,886.8	4,826.9	18.7	15.2	146.80	-177.9	-730.8	222.3	197.9	24.40	9.110		
5,000.0	4,895.7	4,986.7	4,925.1	19.2	15.6	147.02	-182.3	-747.9	228.3	203.4	24.88	9.175		

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 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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 Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	4,993.1	5,086.5	5,023.4	19.6	15.9	147.23	-186.8	-764.9	234.3	209.0	25.37	9.238		
5,200.0	5,090.4	5,186.3	5,121.6	20.1	16.3	147.44	-191.3	-782.0	240.4	214.5	25.85	9.298		
5,300.0	5,187.7	5,286.1	5,219.9	20.5	16.6	147.63	-195.7	-799.1	246.4	220.1	26.34	9.356		
5,400.0	5,285.1	5,385.9	5,318.1	21.0	17.0	147.81	-200.2	-816.1	252.5	225.7	26.82	9.412		
5,500.0	5,382.4	5,485.7	5,416.3	21.4	17.3	147.98	-204.6	-833.2	258.5	231.2	27.31	9.466		
5,600.0	5,479.8	5,585.5	5,514.6	21.8	17.7	148.15	-209.1	-850.3	264.6	236.8	27.80	9.519		
5,700.0	5,577.1	5,685.4	5,612.8	22.3	18.0	148.31	-213.6	-867.3	270.6	242.4	28.28	9.569		
5,800.0	5,674.4	5,785.2	5,711.1	22.7	18.4	148.46	-218.0	-884.4	276.7	247.9	28.77	9.618		
5,900.0	5,771.8	5,885.0	5,809.3	23.2	18.8	148.60	-222.5	-901.5	282.7	253.5	29.25	9.665		
6,000.0	5,869.1	5,984.8	5,907.6	23.6	19.1	148.74	-227.0	-918.5	288.8	259.1	29.74	9.711		
6,100.0	5,966.4	6,084.6	6,005.8	24.1	19.5	148.87	-231.4	-935.6	294.9	264.6	30.23	9.755		
6,200.0	6,063.8	6,184.4	6,104.0	24.5	19.8	149.00	-235.9	-952.7	300.9	270.2	30.71	9.798		
6,300.0	6,161.1	6,284.2	6,202.3	24.9	20.2	149.12	-240.3	-969.7	307.0	275.8	31.20	9.840		
6,400.0	6,258.5	6,384.0	6,300.5	25.4	20.5	149.24	-244.8	-986.8	313.1	281.4	31.69	9.880		
6,500.0	6,355.8	6,483.9	6,398.8	25.8	20.9	149.36	-249.3	-1,003.9	319.1	287.0	32.17	9.919		
6,600.0	6,453.1	6,583.7	6,497.0	26.3	21.3	149.47	-253.7	-1,020.9	325.2	292.5	32.66	9.957		
6,700.0	6,550.5	6,683.5	6,595.2	26.7	21.6	149.57	-258.2	-1,038.0	331.3	298.1	33.15	9.994		
6,800.0	6,647.8	6,783.3	6,693.5	27.2	22.0	149.67	-262.6	-1,055.1	337.3	303.7	33.63	10.030		
6,900.0	6,745.2	6,883.1	6,791.7	27.6	22.3	149.77	-267.1	-1,072.1	343.4	309.3	34.12	10.065		
7,000.0	6,842.5	7,030.4	6,935.8	28.1	22.9	150.68	-281.7	-1,097.5	346.1	311.9	34.27	10.100		
7,100.0	6,939.8	7,211.1	7,100.7	28.5	23.8	157.10	-346.8	-1,128.1	326.4	294.8	31.59	10.333		
7,200.0	7,037.2	7,350.2	7,209.2	28.9	24.7	154.16	-430.7	-1,149.7	289.2	262.4	26.75	10.812		
7,300.0	7,134.5	7,435.4	7,264.5	29.3	25.3	133.20	-494.4	-1,161.5	246.3	219.2	27.08	9.095		
7,400.0	7,229.2	7,477.6	7,288.3	29.5	25.7	125.06	-528.9	-1,166.8	222.8	191.2	31.62	7.047		
7,412.5	7,240.6	7,480.7	7,289.9	29.5	25.7	124.27	-531.4	-1,167.1	222.5	190.6	31.93	6.967		
7,500.0	7,318.2	7,492.3	7,295.9	29.6	25.8	117.51	-541.3	-1,168.5	238.9	206.8	32.19	7.424		
7,600.0	7,399.0	7,489.7	7,294.6	29.7	25.8	105.52	-539.0	-1,168.2	291.0	261.4	29.69	9.803		
7,700.0	7,469.1	7,476.0	7,287.4	29.8	25.7	89.07	-527.5	-1,166.6	362.6	335.5	27.13	13.363		
7,800.0	7,526.4	7,450.0	7,273.0	29.8	25.5	70.78	-506.1	-1,163.3	441.4	415.8	25.57	17.262		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3D-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-85.35	3.6	-44.8	44.9					
100.0	100.0	99.0	99.0	0.2	0.2	-85.35	3.6	-44.8	44.9	44.6	0.30	148.631		
200.0	200.0	199.0	199.0	0.3	0.3	-85.35	3.6	-44.8	44.9	44.3	0.65	68.988		
300.0	300.0	299.0	299.0	0.5	0.5	28.16	3.6	-44.8	44.1	43.1	1.00	44.132		
400.0	400.0	399.0	399.0	0.7	0.7	29.86	3.6	-44.8	41.9	40.5	1.35	30.994		
500.0	499.9	498.9	498.9	0.9	0.8	33.14	3.6	-44.8	38.1	36.4	1.70	22.389		
600.0	599.7	598.1	598.1	1.1	1.0	38.74	3.8	-45.6	34.0	32.0	2.06	16.501		
700.0	699.4	697.4	697.3	1.3	1.2	47.33	4.2	-48.1	30.8	28.4	2.44	12.634		
800.0	798.9	796.7	796.6	1.5	1.4	59.05	4.9	-52.3	29.1	26.2	2.85	10.208		
833.7	832.4	830.1	830.0	1.6	1.4	63.53	5.2	-54.1	28.9	25.9	3.00	9.653 CC, ES		
900.0	898.3	896.0	895.7	1.8	1.6	72.69	5.9	-58.3	29.5	26.2	3.30	8.925		
1,000.0	997.4	995.4	994.8	2.0	1.8	85.87	7.1	-65.9	32.4	28.6	3.79	8.532 SF		
1,100.0	1,096.3	1,094.7	1,093.6	2.3	2.0	96.68	8.6	-75.2	37.6	33.3	4.31	8.735		
1,200.0	1,194.9	1,194.2	1,192.5	2.7	2.2	105.04	10.4	-85.9	44.8	39.9	4.84	9.259		
1,300.0	1,293.3	1,293.6	1,291.3	3.0	2.5	112.59	12.2	-96.8	53.3	47.9	5.36	9.938		
1,400.0	1,391.2	1,392.8	1,390.0	3.4	2.7	119.35	14.0	-107.6	63.3	57.4	5.87	10.778		
1,500.0	1,488.9	1,491.9	1,488.4	3.8	2.9	125.29	15.7	-118.4	75.0	68.6	6.37	11.775		
1,600.0	1,586.2	1,590.8	1,586.7	4.2	3.2	130.28	17.5	-129.2	88.0	81.2	6.84	12.876		
1,700.0	1,683.6	1,689.7	1,685.0	4.7	3.4	134.01	19.3	-140.0	101.6	94.3	7.30	13.920		
1,800.0	1,780.9	1,788.5	1,783.2	5.1	3.7	136.85	21.1	-150.8	115.5	107.8	7.76	14.885		
1,900.0	1,878.2	1,887.4	1,881.5	5.5	3.9	139.07	22.8	-161.6	129.7	121.5	8.22	15.770		
2,000.0	1,975.6	1,986.3	1,979.8	5.9	4.2	140.86	24.6	-172.4	144.0	135.3	8.69	16.577		
2,100.0	2,072.9	2,085.2	2,078.1	6.4	4.4	142.32	26.4	-183.2	158.4	149.2	9.15	17.315		
2,200.0	2,170.3	2,184.1	2,176.3	6.8	4.7	143.54	28.2	-193.9	172.9	163.3	9.61	17.989		
2,300.0	2,267.6	2,283.0	2,274.6	7.3	4.9	144.58	29.9	-204.7	187.4	177.3	10.07	18.606		
2,400.0	2,364.9	2,381.8	2,372.9	7.7	5.2	145.46	31.7	-215.5	202.0	191.5	10.54	19.173		
2,500.0	2,462.3	2,480.7	2,471.2	8.1	5.4	146.22	33.5	-226.3	216.7	205.7	11.00	19.694		
2,600.0	2,559.6	2,579.6	2,569.5	8.6	5.7	146.89	35.3	-237.1	231.3	219.9	11.47	20.176		
2,700.0	2,656.9	2,678.5	2,667.7	9.0	5.9	147.47	37.0	-247.9	246.0	234.1	11.93	20.621		
2,800.0	2,754.3	2,777.4	2,766.0	9.4	6.2	147.99	38.8	-258.7	260.8	248.4	12.40	21.034		
2,900.0	2,851.6	2,876.3	2,864.3	9.9	6.5	148.46	40.6	-269.5	275.5	262.7	12.86	21.417		
3,000.0	2,949.0	2,975.1	2,962.6	10.3	6.7	148.88	42.3	-280.3	290.3	276.9	13.33	21.775		
3,100.0	3,046.3	3,074.0	3,060.8	10.8	7.0	149.26	44.1	-291.1	305.1	291.3	13.80	22.109		
3,200.0	3,143.6	3,172.9	3,159.1	11.2	7.2	149.60	45.9	-301.9	319.8	305.6	14.26	22.421		
3,300.0	3,241.0	3,271.8	3,257.4	11.7	7.5	149.91	47.7	-312.7	334.6	319.9	14.73	22.714		
3,400.0	3,338.3	3,370.7	3,355.7	12.1	7.7	150.20	49.4	-323.4	349.4	334.2	15.20	22.989		
3,500.0	3,435.7	3,469.6	3,453.9	12.5	8.0	150.46	51.2	-334.2	364.3	348.6	15.67	23.248		
3,600.0	3,533.0	3,568.5	3,552.2	13.0	8.2	150.70	53.0	-345.0	379.1	362.9	16.14	23.492		
3,700.0	3,630.3	3,667.3	3,650.5	13.4	8.5	150.92	54.8	-355.8	393.9	377.3	16.60	23.723		
3,800.0	3,727.7	3,766.2	3,748.8	13.9	8.8	151.13	56.5	-366.6	408.7	391.7	17.07	23.941		
3,900.0	3,825.0	3,865.1	3,847.1	14.3	9.0	151.32	58.3	-377.4	423.6	406.0	17.54	24.147		
4,000.0	3,922.3	3,964.0	3,945.3	14.7	9.3	151.50	60.1	-388.2	438.4	420.4	18.01	24.343		
4,100.0	4,019.7	4,062.9	4,043.6	15.2	9.5	151.67	61.9	-399.0	453.3	434.8	18.48	24.529		
4,200.0	4,117.0	4,161.8	4,141.9	15.6	9.8	151.83	63.6	-409.8	468.1	449.2	18.95	24.705		
4,300.0	4,214.4	4,260.6	4,240.2	16.1	10.0	151.98	65.4	-420.6	483.0	463.5	19.42	24.874		
4,400.0	4,311.7	4,359.5	4,338.4	16.5	10.3	152.12	67.2	-431.4	497.8	477.9	19.89	25.034		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3E-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-30.8	30.8	30.5	0.30	101.338		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-30.8	30.8	30.1	0.65	47.147		
300.0	300.0	300.0	300.0	0.5	0.5	23.62	0.0	-30.8	30.0	29.0	1.00	29.917		
400.0	400.0	400.0	400.0	0.7	0.7	25.81	0.0	-30.8	27.6	26.2	1.35	20.416		
500.0	499.9	499.9	499.9	0.9	0.8	30.42	0.0	-30.8	23.7	22.0	1.70	13.935		
600.0	599.7	599.7	599.7	1.1	1.0	39.94	0.0	-30.8	18.7	16.7	2.07	9.069		
700.0	699.4	699.1	699.1	1.3	1.2	60.57	0.3	-31.6	14.5	12.0	2.46	5.895		
751.0	750.2	749.9	749.8	1.4	1.3	76.43	0.8	-32.6	13.8	11.1	2.68	5.147 CC, ES		
800.0	798.9	798.6	798.6	1.5	1.4	92.45	1.3	-33.9	14.5	11.6	2.89	5.021 SF		
900.0	898.3	898.1	898.0	1.8	1.6	116.95	3.0	-37.9	19.7	16.5	3.28	6.021		
1,000.0	997.4	997.6	997.3	2.0	1.7	131.60	4.8	-42.2	28.1	24.5	3.64	7.730		
1,100.0	1,096.3	1,096.8	1,096.5	2.3	1.9	140.90	6.7	-46.6	38.9	34.9	4.00	9.724		
1,200.0	1,194.9	1,195.9	1,195.4	2.7	2.1	147.16	8.5	-50.9	51.6	47.2	4.35	11.860		
1,300.0	1,293.3	1,294.7	1,294.1	3.0	2.3	151.62	10.4	-55.2	66.2	61.5	4.71	14.076		
1,400.0	1,391.2	1,393.2	1,392.6	3.4	2.5	154.96	12.2	-59.5	82.7	77.6	5.06	16.342		
1,500.0	1,488.9	1,491.5	1,490.7	3.8	2.7	157.56	14.0	-63.8	100.9	95.5	5.41	18.643		
1,600.0	1,586.2	1,589.5	1,588.6	4.2	2.9	159.60	15.8	-68.1	120.5	114.7	5.77	20.872		
1,700.0	1,683.6	1,687.5	1,686.4	4.7	3.0	161.09	17.7	-72.4	140.1	134.0	6.13	22.850		
1,800.0	1,780.9	1,785.4	1,784.3	5.1	3.2	162.22	19.5	-76.7	159.9	153.4	6.50	24.612		
1,900.0	1,878.2	1,883.4	1,882.2	5.5	3.4	163.10	21.3	-81.0	179.7	172.9	6.86	26.189		
2,000.0	1,975.6	1,981.4	1,980.1	5.9	3.6	163.80	23.1	-85.3	199.6	192.3	7.23	27.607		
2,100.0	2,072.9	2,079.4	2,077.9	6.4	3.8	164.38	24.9	-89.6	219.4	211.8	7.60	28.889		
2,200.0	2,170.3	2,177.4	2,175.8	6.8	4.0	164.86	26.7	-93.9	239.3	231.3	7.96	30.054		
2,300.0	2,267.6	2,275.4	2,273.7	7.3	4.2	165.26	28.6	-98.1	259.2	250.9	8.33	31.116		
2,400.0	2,364.9	2,373.4	2,371.6	7.7	4.4	165.61	30.4	-102.4	279.1	270.4	8.70	32.088		
2,500.0	2,462.3	2,471.3	2,469.4	8.1	4.5	165.92	32.2	-106.7	299.0	289.9	9.07	32.981		
2,600.0	2,559.6	2,569.3	2,567.3	8.6	4.7	166.18	34.0	-111.0	318.9	309.5	9.43	33.805		
2,700.0	2,656.9	2,667.3	2,665.2	9.0	4.9	166.41	35.8	-115.3	338.9	329.1	9.80	34.566		
2,800.0	2,754.3	2,765.3	2,763.1	9.4	5.1	166.62	37.7	-119.6	358.8	348.6	10.17	35.273		
2,900.0	2,851.6	2,863.3	2,860.9	9.9	5.3	166.81	39.5	-123.9	378.7	368.2	10.54	35.930		
3,000.0	2,949.0	2,961.3	2,958.8	10.3	5.5	166.97	41.3	-128.2	398.7	387.8	10.91	36.542		
3,100.0	3,046.3	3,059.3	3,056.7	10.8	5.7	167.13	43.1	-132.5	418.6	407.3	11.28	37.114		
3,200.0	3,143.6	3,157.2	3,154.6	11.2	5.9	167.26	44.9	-136.7	438.6	426.9	11.65	37.650		
3,300.0	3,241.0	3,255.2	3,252.4	11.7	6.0	167.39	46.8	-141.0	458.5	446.5	12.02	38.153		
3,400.0	3,338.3	3,353.2	3,350.3	12.1	6.2	167.50	48.6	-145.3	478.4	466.1	12.39	38.626		
3,500.0	3,435.7	3,451.2	3,448.2	12.5	6.4	167.61	50.4	-149.6	498.4	485.6	12.76	39.071		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3F-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	-81.78	3.6	-25.2	25.4					
100.0	100.0	100.0	100.0	0.2	0.2	-81.78	3.6	-25.2	25.4	0.30	83.774			
200.0	200.0	200.0	200.0	0.3	0.3	-81.78	3.6	-25.2	25.4	0.65	38.975			
300.0	300.0	300.0	300.0	0.5	0.5	32.25	3.6	-25.2	24.7	1.00	24.649			
400.0	400.0	400.0	400.0	0.7	0.7	35.82	3.6	-25.2	22.5	1.35	16.655			
500.0	499.9	499.9	499.9	0.9	0.8	43.49	3.6	-25.2	19.2	1.71	11.216			
600.0	599.7	599.7	599.7	1.1	1.0	59.42	3.6	-25.2	15.3	2.08	7.360			
699.5	698.9	698.9	698.9	1.3	1.2	90.00	3.6	-25.2	13.2	2.48	5.315 CC			
700.0	699.4	699.4	699.4	1.3	1.2	90.18	3.6	-25.2	13.2	2.48	5.311 ES, SF			
800.0	798.9	798.9	798.9	1.5	1.4	125.99	3.6	-25.2	16.3	2.84	5.751			
900.0	898.3	898.3	898.3	1.8	1.5	147.63	3.6	-25.2	24.7	3.15	7.851			
1,000.0	997.4	997.4	997.4	2.0	1.7	158.62	3.6	-25.2	36.5	3.47	10.496			
1,100.0	1,096.3	1,096.3	1,096.3	2.3	1.9	164.70	3.6	-25.2	50.5	3.80	13.284			
1,200.0	1,194.9	1,194.9	1,194.9	2.7	2.1	168.42	3.6	-25.2	66.6	4.14	16.102			
1,300.0	1,293.3	1,293.3	1,293.3	3.0	2.2	170.87	3.6	-25.2	84.5	4.47	18.915			
1,400.0	1,391.2	1,391.2	1,391.2	3.4	2.4	172.58	3.6	-25.2	104.3	4.80	21.715			
1,500.0	1,488.9	1,488.9	1,488.9	3.8	2.6	173.83	3.6	-25.2	125.8	5.13	24.500			
1,600.0	1,586.2	1,586.2	1,586.2	4.2	2.7	174.77	3.6	-25.2	148.5	5.47	27.144			
1,700.0	1,683.6	1,683.6	1,683.6	4.7	2.9	175.47	3.6	-25.2	171.4	5.81	29.479			
1,800.0	1,780.9	1,780.9	1,780.9	5.1	3.1	176.00	3.6	-25.2	194.2	6.16	31.555			
1,900.0	1,878.2	1,878.2	1,878.2	5.5	3.3	176.43	3.6	-25.2	217.1	6.50	33.415			
2,000.0	1,975.6	1,975.6	1,975.6	5.9	3.4	176.77	3.6	-25.2	240.0	6.84	35.089			
2,100.0	2,072.9	2,072.9	2,072.9	6.4	3.6	177.05	3.6	-25.2	262.9	7.18	36.604			
2,200.0	2,170.3	2,170.3	2,170.3	6.8	3.8	177.28	3.6	-25.2	285.8	7.52	37.981			
2,300.0	2,267.6	2,267.6	2,267.6	7.3	3.9	177.49	3.6	-25.2	308.7	7.87	39.239			
2,400.0	2,364.9	2,364.9	2,364.9	7.7	4.1	177.66	3.6	-25.2	331.6	8.21	40.392			
2,500.0	2,462.3	2,462.3	2,462.3	8.1	4.3	177.81	3.6	-25.2	354.5	8.55	41.453			
2,600.0	2,559.6	2,559.6	2,559.6	8.6	4.4	177.94	3.6	-25.2	377.4	8.89	42.432			
2,700.0	2,656.9	2,656.9	2,656.9	9.0	4.6	178.06	3.6	-25.2	400.3	9.24	43.339			
2,800.0	2,754.3	2,754.3	2,754.3	9.4	4.8	178.17	3.6	-25.2	423.2	9.58	44.181			
2,900.0	2,851.6	2,851.6	2,851.6	9.9	5.0	178.26	3.6	-25.2	446.1	9.92	44.965			
3,000.0	2,949.0	2,949.0	2,949.0	10.3	5.1	178.35	3.6	-25.2	469.0	10.26	45.697			
3,100.0	3,046.3	3,046.3	3,046.3	10.8	5.3	178.42	3.6	-25.2	491.9	10.61	46.382			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3G-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-19.6	19.6	19.3	64.488			
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-19.6	19.6	18.9	0.65	30.002		
300.0	300.0	300.0	300.0	0.5	0.5	24.02	0.0	-19.6	18.8	17.8	1.00	18.748		
400.0	400.0	400.0	400.0	0.7	0.7	27.75	0.0	-19.6	16.4	15.1	1.35	12.152		
500.0	499.9	499.9	499.9	0.9	0.8	36.95	0.0	-19.6	12.7	11.0	1.71	7.461		
600.0	599.7	599.8	599.8	1.1	1.0	66.17	0.0	-18.7	8.0	5.9	2.09	3.852		
641.4	641.0	641.1	641.1	1.2	1.1	94.86	0.1	-17.8	7.1	4.8	2.25	3.135 CC, ES, SF		
700.0	699.4	699.3	699.2	1.3	1.2	137.28	0.2	-16.1	9.5	7.1	2.44	3.913		
800.0	798.9	798.2	798.0	1.5	1.4	166.29	0.4	-11.9	21.2	18.5	2.75	7.717		
900.0	898.3	896.9	896.7	1.8	1.6	174.72	0.6	-7.1	36.6	33.5	3.09	11.863		
1,000.0	997.4	995.3	995.0	2.0	1.7	178.19	0.8	-2.3	54.0	50.6	3.43	15.773		
1,100.0	1,096.3	1,093.5	1,093.0	2.3	1.9	179.97	1.1	2.4	73.3	69.5	3.76	19.460		
1,200.0	1,194.9	1,191.2	1,190.6	2.7	2.1	-179.00	1.3	7.2	94.3	90.1	4.10	22.971		
1,300.0	1,293.3	1,288.6	1,287.9	3.0	2.3	-178.37	1.5	11.9	117.0	112.5	4.44	26.344		
1,400.0	1,391.2	1,385.6	1,384.7	3.4	2.5	-177.96	1.7	16.6	141.4	136.6	4.77	29.612		
1,500.0	1,488.9	1,482.1	1,481.2	3.8	2.7	-177.70	2.0	21.2	167.5	162.4	5.11	32.796		
1,600.0	1,586.2	1,578.3	1,577.2	4.2	2.9	-177.53	2.2	25.9	194.8	189.3	5.45	35.767		
1,700.0	1,683.6	1,674.5	1,673.3	4.7	3.0	-177.40	2.4	30.6	222.2	216.4	5.79	38.379		
1,800.0	1,780.9	1,770.6	1,769.4	5.1	3.2	-177.30	2.6	35.2	249.5	243.4	6.13	40.700		
1,900.0	1,878.2	1,866.8	1,865.4	5.5	3.4	-177.22	2.9	39.9	276.9	270.4	6.47	42.774		
2,000.0	1,975.6	1,963.0	1,961.5	5.9	3.6	-177.15	3.1	44.5	304.3	297.4	6.82	44.641		
2,100.0	2,072.9	2,059.2	2,057.6	6.4	3.8	-177.10	3.3	49.2	331.6	324.5	7.16	46.328		
2,200.0	2,170.3	2,155.4	2,153.6	6.8	4.0	-177.05	3.5	53.8	359.0	351.5	7.50	47.862		
2,300.0	2,267.6	2,251.6	2,249.7	7.3	4.2	-177.01	3.8	58.5	386.4	378.5	7.84	49.261		
2,400.0	2,364.9	2,347.7	2,345.8	7.7	4.3	-176.98	4.0	63.2	413.7	405.6	8.19	50.543		
2,500.0	2,462.3	2,443.9	2,441.9	8.1	4.5	-176.95	4.2	67.8	441.1	432.6	8.53	51.723		
2,600.0	2,559.6	2,540.1	2,537.9	8.6	4.7	-176.92	4.4	72.5	468.5	459.6	8.87	52.811		
2,700.0	2,656.9	2,636.3	2,634.0	9.0	4.9	-176.90	4.7	77.1	495.9	486.6	9.21	53.818		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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 (°)	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	-75.40	3.6	-14.0	14.5					
100.0	100.0	100.0	100.0	0.2	0.2	-75.40	3.6	-14.0	14.5	14.2	0.30	47.599		
200.0	200.0	200.0	200.0	0.3	0.3	-75.40	3.6	-14.0	14.5	13.8	0.65	22.145		
300.0	300.0	300.0	300.0	0.5	0.5	39.79	3.6	-14.0	13.8	12.8	1.00	13.744		
400.0	400.0	400.0	400.0	0.7	0.7	48.44	3.7	-13.8	11.7	10.3	1.35	8.633		
500.0	499.9	500.0	500.0	0.9	0.9	78.04	3.8	-12.0	8.4	6.7	1.72	4.870		
532.1	531.9	532.0	532.0	0.9	0.9	96.55	3.9	-11.1	7.9	6.1	1.84	4.314	CC, ES, SF	
600.0	599.7	599.5	599.5	1.1	1.0	137.07	4.1	-8.6	10.4	8.4	2.07	5.030		
700.0	699.4	698.5	698.3	1.3	1.2	164.93	4.5	-3.4	21.1	18.7	2.40	8.792		
800.0	798.9	796.7	796.3	1.5	1.4	174.79	5.0	3.4	36.7	33.9	2.74	13.374		
900.0	898.3	894.1	893.2	1.8	1.6	179.36	5.6	11.7	56.0	52.9	3.08	18.153		
1,000.0	997.4	990.7	989.4	2.0	1.8	-178.09	6.4	21.6	78.6	75.2	3.42	22.980		
1,100.0	1,096.3	1,087.5	1,085.6	2.3	2.1	-176.66	7.2	31.9	103.5	99.7	3.76	27.516		
1,200.0	1,194.9	1,183.9	1,181.5	2.7	2.3	-175.83	8.0	42.2	130.0	125.9	4.10	31.733		
1,300.0	1,293.3	1,279.8	1,276.8	3.0	2.5	-175.32	8.8	52.4	158.3	153.9	4.43	35.702		
1,400.0	1,391.2	1,375.2	1,371.7	3.4	2.8	-175.00	9.6	62.6	188.2	183.5	4.77	39.480		
1,500.0	1,488.9	1,470.1	1,466.0	3.8	3.0	-174.81	10.4	72.7	219.8	214.7	5.10	43.107		
1,600.0	1,586.2	1,564.6	1,560.0	4.2	3.2	-174.70	11.2	82.7	252.6	247.1	5.44	46.442		
1,700.0	1,683.6	1,659.1	1,653.9	4.7	3.5	-174.63	11.9	92.8	285.4	279.6	5.78	49.367		
1,800.0	1,780.9	1,753.5	1,747.8	5.1	3.7	-174.57	12.7	102.9	318.2	312.1	6.12	51.963		
1,900.0	1,878.2	1,848.0	1,841.7	5.5	4.0	-174.52	13.5	112.9	351.1	344.6	6.47	54.283		
2,000.0	1,975.6	1,942.4	1,935.7	5.9	4.2	-174.48	14.3	123.0	383.9	377.1	6.81	56.368		
2,100.0	2,072.9	2,036.9	2,029.6	6.4	4.4	-174.45	15.1	133.1	416.7	409.5	7.15	58.253		
2,200.0	2,170.3	2,131.3	2,123.5	6.8	4.7	-174.42	15.8	143.1	449.5	442.0	7.50	59.964		
2,300.0	2,267.6	2,225.8	2,217.4	7.3	4.9	-174.40	16.6	153.2	482.3	474.5	7.84	61.525		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	56.90	3.6	5.6	6.7						
100.0	100.0	100.0	100.0	0.2	0.2	56.90	3.6	5.6	6.7	6.4	0.30	21.993			
200.0	200.0	200.0	200.0	0.3	0.3	56.90	3.6	5.6	6.7	6.0	0.65	10.232 CC, ES			
300.0	300.0	300.1	300.1	0.5	0.5	170.89	3.5	5.4	7.3	6.3	1.00	7.309			
400.0	400.0	400.2	400.2	0.7	0.7	172.68	2.8	3.8	8.2	6.8	1.35	6.048			
500.0	499.9	500.3	500.3	0.9	0.9	174.88	1.2	0.7	9.0	7.3	1.70	5.304			
600.0	599.7	600.5	600.3	1.1	1.1	177.38	-1.2	-4.0	9.9	7.8	2.05	4.818			
700.0	699.4	700.7	700.2	1.3	1.3	-179.89	-4.4	-10.2	10.7	8.3	2.40	4.479			
800.0	798.9	800.9	800.0	1.5	1.5	-176.99	-8.3	-18.0	11.6	8.9	2.75	4.235			
900.0	898.3	901.1	899.7	1.8	1.7	-173.98	-13.0	-27.4	12.6	9.5	3.10	4.053			
1,000.0	997.4	1,001.3	999.1	2.0	2.0	-170.90	-18.6	-38.3	13.5	10.1	3.46	3.912			
1,100.0	1,096.3	1,101.5	1,098.4	2.3	2.3	-167.79	-24.9	-50.8	14.6	10.7	3.84	3.798			
1,200.0	1,194.9	1,201.8	1,197.4	2.7	2.6	-164.69	-32.0	-64.8	15.7	11.4	4.24	3.700			
1,300.0	1,293.3	1,302.0	1,296.1	3.0	2.9	-161.62	-39.8	-80.3	16.9	12.2	4.68	3.608			
1,400.0	1,391.2	1,402.3	1,394.5	3.4	3.3	-158.62	-48.5	-97.4	18.1	13.0	5.15	3.518			
1,500.0	1,488.9	1,502.4	1,492.5	3.8	3.7	-155.95	-57.8	-115.9	19.6	14.0	5.68	3.460 SF			
1,600.0	1,586.2	1,602.4	1,590.3	4.2	4.0	-154.77	-67.3	-134.6	22.1	15.9	6.19	3.569			
1,700.0	1,683.6	1,702.4	1,688.0	4.7	4.4	-153.88	-76.7	-153.2	24.6	17.9	6.71	3.665			
1,800.0	1,780.9	1,802.3	1,785.8	5.1	4.8	-153.15	-86.2	-171.9	27.1	19.9	7.24	3.743			
1,900.0	1,878.2	1,902.3	1,883.5	5.5	5.2	-152.55	-95.6	-190.5	29.6	21.8	7.77	3.809			
2,000.0	1,975.6	2,002.3	1,981.3	5.9	5.6	-152.04	-105.0	-209.2	32.1	23.8	8.31	3.863			
2,100.0	2,072.9	2,102.2	2,079.0	6.4	6.0	-151.61	-114.5	-227.9	34.6	25.8	8.86	3.910			
2,200.0	2,170.3	2,202.2	2,176.8	6.8	6.4	-151.23	-123.9	-246.5	37.1	27.7	9.41	3.949			
2,300.0	2,267.6	2,302.2	2,274.6	7.3	6.8	-150.91	-133.4	-265.2	39.7	29.7	9.96	3.983			
2,400.0	2,364.9	2,402.1	2,372.3	7.7	7.2	-150.62	-142.8	-283.8	42.2	31.7	10.51	4.013			
2,500.0	2,462.3	2,502.1	2,470.1	8.1	7.6	-150.36	-152.2	-302.5	44.7	33.6	11.07	4.039			
2,600.0	2,559.6	2,602.1	2,567.8	8.6	8.0	-150.13	-161.7	-321.1	47.2	35.6	11.62	4.063			
2,700.0	2,656.9	2,702.0	2,665.6	9.0	8.5	-149.93	-171.1	-339.8	49.7	37.6	12.18	4.083			
2,800.0	2,754.3	2,802.0	2,763.3	9.4	8.9	-149.74	-180.6	-358.5	52.3	39.5	12.74	4.101			
2,900.0	2,851.6	2,902.0	2,861.1	9.9	9.3	-149.57	-190.0	-377.1	54.8	41.5	13.30	4.118			
3,000.0	2,949.0	3,001.9	2,958.9	10.3	9.7	-149.42	-199.5	-395.8	57.3	43.4	13.87	4.133			
3,100.0	3,046.3	3,101.9	3,056.6	10.8	10.1	-149.28	-208.9	-414.4	59.8	45.4	14.43	4.146			
3,200.0	3,143.6	3,201.9	3,154.4	11.2	10.5	-149.15	-218.3	-433.1	62.4	47.4	14.99	4.158			
3,300.0	3,241.0	3,301.8	3,252.1	11.7	10.9	-149.03	-227.8	-451.8	64.9	49.3	15.56	4.170			
3,400.0	3,338.3	3,401.8	3,349.9	12.1	11.3	-148.92	-237.2	-470.4	67.4	51.3	16.13	4.180			
3,500.0	3,435.7	3,501.8	3,447.6	12.5	11.7	-148.82	-246.7	-489.1	69.9	53.2	16.69	4.189			
3,600.0	3,533.0	3,601.8	3,545.4	13.0	12.1	-148.72	-256.1	-507.7	72.4	55.2	17.26	4.198			
3,700.0	3,630.3	3,701.7	3,643.2	13.4	12.5	-148.63	-265.5	-526.4	75.0	57.1	17.83	4.206			
3,800.0	3,727.7	3,801.7	3,740.9	13.9	12.9	-148.55	-275.0	-545.0	77.5	59.1	18.39	4.213			
3,900.0	3,825.0	3,901.7	3,838.7	14.3	13.3	-148.47	-284.4	-563.7	80.0	61.1	18.96	4.220			
4,000.0	3,922.3	4,001.6	3,936.4	14.7	13.7	-148.40	-293.9	-582.4	82.5	63.0	19.53	4.227			
4,100.0	4,019.7	4,101.6	4,034.2	15.2	14.2	-148.33	-303.3	-601.0	85.1	65.0	20.10	4.233			
4,200.0	4,117.0	4,201.6	4,131.9	15.6	14.6	-148.26	-312.8	-619.7	87.6	66.9	20.67	4.238			
4,300.0	4,214.4	4,301.5	4,229.7	16.1	15.0	-148.20	-322.2	-638.3	90.1	68.9	21.24	4.244			
4,400.0	4,311.7	4,401.5	4,327.4	16.5	15.4	-148.14	-331.6	-657.0	92.6	70.8	21.81	4.248			
4,500.0	4,409.0	4,501.5	4,425.2	17.0	15.8	-148.09	-341.1	-675.7	95.2	72.8	22.38	4.253			
4,600.0	4,506.4	4,601.4	4,523.0	17.4	16.2	-148.04	-350.5	-694.3	97.7	74.7	22.95	4.257			
4,700.0	4,603.7	4,701.4	4,620.7	17.8	16.6	-147.99	-360.0	-713.0	100.2	76.7	23.52	4.262			
4,800.0	4,701.1	4,801.4	4,718.5	18.3	17.0	-147.94	-369.4	-731.6	102.7	78.7	24.09	4.266			
4,900.0	4,798.4	4,901.3	4,816.2	18.7	17.4	-147.90	-378.8	-750.3	105.3	80.6	24.66	4.269			
5,000.0	4,895.7	5,001.3	4,914.0	19.2	17.8	-147.85	-388.3	-768.9	107.8	82.6	25.23	4.273			
5,100.0	4,993.1	5,101.3	5,011.7	19.6	18.2	-147.81	-397.7	-787.6	110.3	84.5	25.80	4.276			

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 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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							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	5,090.4	5,201.2	5,109.5	20.1	18.7	-147.78	-407.2	-806.3	112.8	86.5	26.37	4.279		
5,300.0	5,187.7	5,301.2	5,207.3	20.5	19.1	-147.74	-416.6	-824.9	115.4	88.4	26.94	4.282		
5,400.0	5,285.1	5,401.2	5,305.0	21.0	19.5	-147.70	-426.0	-843.6	117.9	90.4	27.51	4.285		
5,500.0	5,382.4	5,501.1	5,402.8	21.4	19.9	-147.67	-435.5	-862.2	120.4	92.3	28.08	4.288		
5,600.0	5,479.8	5,601.1	5,500.5	21.8	20.3	-147.64	-444.9	-880.9	122.9	94.3	28.66	4.290		
5,700.0	5,577.1	5,701.1	5,598.3	22.3	20.7	-147.60	-454.4	-899.6	125.5	96.2	29.23	4.293		
5,800.0	5,674.4	5,801.0	5,696.0	22.7	21.1	-147.57	-463.8	-918.2	128.0	98.2	29.80	4.295		
5,900.0	5,771.8	5,901.0	5,793.8	23.2	21.5	-147.55	-473.3	-936.9	130.5	100.2	30.37	4.298		
6,000.0	5,869.1	6,001.0	5,891.6	23.6	21.9	-147.52	-482.7	-955.5	133.1	102.1	30.94	4.300		
6,100.0	5,966.4	6,101.0	5,989.3	24.1	22.3	-147.49	-492.1	-974.2	135.6	104.1	31.52	4.302		
6,200.0	6,063.8	6,200.9	6,087.1	24.5	22.7	-147.47	-501.6	-992.8	138.1	106.0	32.09	4.304		
6,300.0	6,161.1	6,300.9	6,184.8	24.9	23.2	-147.44	-511.0	-1,011.5	140.6	108.0	32.66	4.306		
6,400.0	6,258.5	6,400.9	6,282.6	25.4	23.6	-147.42	-520.5	-1,030.2	143.2	109.9	33.23	4.308		
6,500.0	6,355.8	6,500.8	6,380.3	25.8	24.0	-147.39	-529.9	-1,048.8	145.7	111.9	33.81	4.309		
6,600.0	6,453.1	6,600.8	6,478.1	26.3	24.4	-147.37	-539.3	-1,067.5	148.2	113.8	34.38	4.311		
6,700.0	6,550.5	6,700.8	6,575.8	26.7	24.8	-147.35	-548.8	-1,086.1	150.7	115.8	34.95	4.313		
6,800.0	6,647.8	6,800.7	6,673.6	27.2	25.2	-147.33	-558.2	-1,104.8	153.3	117.7	35.52	4.314		
6,900.0	6,745.2	6,901.2	6,771.8	27.6	25.6	-147.34	-567.6	-1,123.5	155.8	119.7	36.08	4.318		
7,000.0	6,842.5	7,004.8	6,873.4	28.1	25.9	-151.33	-566.3	-1,142.9	156.8	122.4	34.40	4.556		
7,100.0	6,939.8	7,101.6	6,966.7	28.5	26.1	-160.99	-548.2	-1,160.7	158.7	128.8	29.86	5.313		
7,200.0	7,037.2	7,188.0	7,046.5	28.9	26.2	169.98	-518.7	-1,176.0	169.0	143.2	25.76	6.561		
7,300.0	7,134.5	7,268.6	7,116.1	29.3	26.2	118.27	-480.6	-1,189.3	188.7	162.7	25.99	7.259		
7,400.0	7,229.2	7,350.0	7,180.4	29.5	26.2	88.36	-432.3	-1,201.5	213.2	184.6	28.61	7.452		
7,500.0	7,318.2	7,420.1	7,229.9	29.6	26.1	72.32	-383.7	-1,211.0	238.7	208.5	30.29	7.883		
7,600.0	7,399.0	7,492.4	7,274.6	29.7	26.1	62.28	-327.4	-1,219.5	263.3	232.8	30.54	8.622		
7,700.0	7,469.1	7,563.2	7,311.1	29.8	26.0	55.76	-267.2	-1,226.5	285.3	256.0	29.35	9.721		
7,800.0	7,526.4	7,632.9	7,339.7	29.8	26.0	51.48	-204.0	-1,231.9	303.8	276.6	27.19	11.176		
7,900.0	7,569.0	7,700.0	7,360.0	29.8	26.0	48.79	-140.2	-1,235.8	318.3	293.6	24.66	12.906		
8,000.0	7,595.8	7,770.0	7,373.1	29.9	26.0	47.30	-71.5	-1,238.3	328.2	305.6	22.62	14.511		
8,100.0	7,605.9	7,838.0	7,378.0	30.0	26.0	46.88	-3.7	-1,239.2	333.4	311.7	21.72	15.354		
8,200.0	7,606.0	7,934.5	7,378.0	30.2	26.2	47.25	92.7	-1,239.2	336.0	313.5	22.50	14.933		
8,300.0	7,606.0	8,034.4	7,378.0	30.5	26.4	47.65	192.7	-1,239.2	338.6	315.0	23.61	14.340		
8,400.0	7,606.0	8,134.4	7,378.0	30.9	26.8	48.05	292.6	-1,239.2	341.2	316.2	24.96	13.669		
8,500.0	7,606.0	8,234.3	7,378.0	31.4	27.3	48.44	392.6	-1,239.2	343.8	317.3	26.52	12.962		
8,600.0	7,606.0	8,334.2	7,378.0	31.9	27.9	48.82	492.5	-1,239.2	346.4	318.1	28.27	12.254		
8,700.0	7,606.0	8,434.2	7,378.0	32.6	28.5	49.20	592.4	-1,239.2	349.0	318.9	30.17	11.567		
8,800.0	7,606.0	8,534.1	7,378.0	33.3	29.3	49.57	692.4	-1,239.2	351.7	319.5	32.22	10.914		
8,900.0	7,606.0	8,634.1	7,378.0	34.1	30.2	49.93	792.3	-1,239.2	354.3	320.0	34.39	10.304		
9,000.0	7,606.0	8,734.0	7,378.0	35.0	31.1	50.29	892.3	-1,239.2	357.0	320.4	36.66	9.739		
9,100.0	7,606.0	8,833.9	7,378.0	35.9	32.1	50.65	992.2	-1,239.2	359.7	320.7	39.02	9.219		
9,200.0	7,606.0	8,933.9	7,378.0	36.9	33.2	51.00	1,092.1	-1,239.2	362.4	321.0	41.46	8.741		
9,300.0	7,606.0	9,033.8	7,378.0	38.0	34.3	51.34	1,192.1	-1,239.2	365.1	321.2	43.97	8.304		
9,400.0	7,606.0	9,133.8	7,378.0	39.1	35.5	51.68	1,292.0	-1,239.2	367.9	321.3	46.55	7.903		
9,500.0	7,606.0	9,233.7	7,378.0	40.3	36.7	52.02	1,392.0	-1,239.2	370.6	321.4	49.18	7.537		
9,600.0	7,606.0	9,333.6	7,378.0	41.4	37.9	52.35	1,491.9	-1,239.2	373.4	321.5	51.86	7.200		
9,700.0	7,606.0	9,433.6	7,378.0	42.7	39.2	52.67	1,591.8	-1,239.2	376.1	321.6	54.58	6.891		
9,800.0	7,606.0	9,533.5	7,378.0	44.0	40.6	52.99	1,691.8	-1,239.2	378.9	321.6	57.35	6.607		
9,900.0	7,606.0	9,633.5	7,378.0	45.3	41.9	53.31	1,791.7	-1,239.2	381.7	321.6	60.16	6.345		
10,000.0	7,606.0	9,733.4	7,378.0	46.6	43.3	53.62	1,891.7	-1,239.2	384.5	321.5	63.00	6.103		
10,100.0	7,606.0	9,833.3	7,378.0	48.0	44.7	53.92	1,991.6	-1,239.2	387.3	321.5	65.88	5.880		
10,200.0	7,606.0	9,933.3	7,378.0	49.3	46.2	54.23	2,091.5	-1,239.2	390.2	321.4	68.78	5.672		
10,300.0	7,606.0	10,033.2	7,378.0	50.7	47.7	54.52	2,191.5	-1,239.2	393.0	321.3	71.72	5.480		

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 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,606.0	10,133.2	7,378.0	52.2	49.1	54.82	2,291.4	-1,239.2	395.9	321.2	74.68	5.301		
10,500.0	7,606.0	10,233.1	7,378.0	53.6	50.6	55.10	2,391.3	-1,239.2	398.7	321.0	77.67	5.134		
10,600.0	7,606.0	10,333.0	7,378.0	55.1	52.2	55.39	2,491.3	-1,239.2	401.6	320.9	80.67	4.978		
10,700.0	7,606.0	10,433.0	7,378.0	56.6	53.7	55.67	2,591.2	-1,239.2	404.5	320.7	83.71	4.832		
10,800.0	7,606.0	10,532.9	7,378.0	58.1	55.2	55.95	2,691.2	-1,239.2	407.3	320.6	86.76	4.695		
10,900.0	7,606.0	10,632.8	7,378.0	59.6	56.8	56.22	2,791.1	-1,239.2	410.2	320.4	89.83	4.567		
11,000.0	7,606.0	10,732.8	7,378.0	61.1	58.4	56.49	2,891.0	-1,239.2	413.1	320.2	92.92	4.446		
11,100.0	7,606.0	10,832.7	7,378.0	62.7	59.9	56.75	2,991.0	-1,239.2	416.1	320.0	96.03	4.333		
11,200.0	7,606.0	10,932.7	7,378.0	64.2	61.5	57.02	3,090.9	-1,239.2	419.0	319.8	99.15	4.226		
11,227.4	7,606.0	10,956.4	7,378.0	64.6	61.9	57.08	3,114.6	-1,239.2	419.8	319.9	99.95	4.200		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3K-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	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 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-158.67	0.0	11.2	12.0	11.0	1.00	11.977		
400.0	400.0	400.1	400.1	0.7	0.7	-162.01	-0.1	11.0	14.3	12.9	1.35	10.568		
500.0	499.9	500.3	500.3	0.9	0.9	-163.62	-1.1	9.6	16.9	15.2	1.70	9.945		
600.0	599.7	600.5	600.4	1.1	1.0	-163.80	-3.1	6.7	19.7	17.6	2.05	9.594		
700.0	699.4	700.8	700.6	1.3	1.2	-163.08	-6.1	2.4	22.6	20.2	2.41	9.387		
800.0	798.9	801.1	800.7	1.5	1.4	-161.77	-10.1	-3.4	25.7	22.9	2.77	9.262		
900.0	898.3	901.5	900.6	1.8	1.6	-160.09	-15.2	-10.6	28.9	25.7	3.15	9.184		
1,000.0	997.4	1,001.9	1,000.5	2.0	1.9	-158.16	-21.2	-19.2	32.3	28.8	3.54	9.130		
1,100.0	1,096.3	1,102.3	1,100.1	2.3	2.1	-156.09	-28.2	-29.3	35.9	31.9	3.95	9.083		
1,200.0	1,194.9	1,202.7	1,199.6	2.7	2.4	-153.94	-36.2	-40.8	39.7	35.3	4.40	9.031		
1,300.0	1,293.3	1,303.0	1,298.6	3.0	2.7	-151.87	-45.2	-53.6	43.8	39.0	4.88	8.992 SF		
1,400.0	1,391.2	1,402.8	1,397.2	3.4	3.0	-150.88	-54.3	-66.7	49.3	43.9	5.36	9.191		
1,500.0	1,488.9	1,502.6	1,495.7	3.8	3.3	-150.96	-63.4	-79.7	56.2	50.4	5.83	9.638		
1,600.0	1,586.2	1,602.3	1,594.1	4.2	3.6	-151.58	-72.4	-92.7	64.3	58.0	6.30	10.208		
1,700.0	1,683.6	1,701.9	1,692.5	4.7	4.0	-152.09	-81.5	-105.8	72.4	65.6	6.76	10.705		
1,800.0	1,780.9	1,801.6	1,790.9	5.1	4.3	-152.50	-90.6	-118.8	80.5	73.3	7.23	11.135		
1,900.0	1,878.2	1,901.3	1,889.2	5.5	4.6	-152.83	-99.7	-131.9	88.6	80.9	7.70	11.511		
2,000.0	1,975.6	2,000.9	1,987.6	5.9	4.9	-153.11	-108.8	-144.9	96.7	88.6	8.17	11.843		
2,100.0	2,072.9	2,100.6	2,086.0	6.4	5.2	-153.34	-117.9	-158.0	104.9	96.2	8.64	12.137		
2,200.0	2,170.3	2,200.3	2,184.4	6.8	5.6	-153.54	-127.0	-171.0	113.0	103.9	9.11	12.400		
2,300.0	2,267.6	2,300.0	2,282.8	7.3	5.9	-153.72	-136.1	-184.0	121.1	111.5	9.58	12.636		
2,400.0	2,364.9	2,399.6	2,381.2	7.7	6.2	-153.87	-145.2	-197.1	129.2	119.2	10.06	12.850		
2,500.0	2,462.3	2,499.3	2,479.6	8.1	6.5	-154.00	-154.3	-210.1	137.3	126.8	10.53	13.043		
2,600.0	2,559.6	2,599.0	2,578.0	8.6	6.9	-154.12	-163.3	-223.2	145.5	134.5	11.00	13.219		
2,700.0	2,656.9	2,698.6	2,676.4	9.0	7.2	-154.23	-172.4	-236.2	153.6	142.1	11.48	13.381		
2,800.0	2,754.3	2,798.3	2,774.8	9.4	7.5	-154.32	-181.5	-249.2	161.7	149.8	11.95	13.529		
2,900.0	2,851.6	2,898.0	2,873.2	9.9	7.8	-154.41	-190.6	-262.3	169.8	157.4	12.43	13.666		
3,000.0	2,949.0	2,997.6	2,971.6	10.3	8.2	-154.49	-199.7	-275.3	178.0	165.1	12.90	13.792		
3,100.0	3,046.3	3,097.3	3,070.0	10.8	8.5	-154.56	-208.8	-288.4	186.1	172.7	13.38	13.909		
3,200.0	3,143.6	3,197.0	3,168.4	11.2	8.8	-154.63	-217.9	-301.4	194.2	180.4	13.86	14.018		
3,300.0	3,241.0	3,296.6	3,266.8	11.7	9.1	-154.69	-227.0	-314.4	202.3	188.0	14.33	14.119		
3,400.0	3,338.3	3,396.3	3,365.1	12.1	9.5	-154.74	-236.1	-327.5	210.5	195.7	14.81	14.214		
3,500.0	3,435.7	3,496.0	3,463.5	12.5	9.8	-154.79	-245.2	-340.5	218.6	203.3	15.28	14.302		
3,600.0	3,533.0	3,595.7	3,561.9	13.0	10.1	-154.84	-254.2	-353.6	226.7	211.0	15.76	14.385		
3,700.0	3,630.3	3,695.3	3,660.3	13.4	10.4	-154.89	-263.3	-366.6	234.9	218.6	16.24	14.464		
3,800.0	3,727.7	3,795.0	3,758.7	13.9	10.8	-154.93	-272.4	-379.7	243.0	226.3	16.71	14.537		
3,900.0	3,825.0	3,894.7	3,857.1	14.3	11.1	-154.97	-281.5	-392.7	251.1	233.9	17.19	14.607		
4,000.0	3,922.3	3,994.3	3,955.5	14.7	11.4	-155.00	-290.6	-405.7	259.2	241.6	17.67	14.672		
4,100.0	4,019.7	4,094.0	4,053.9	15.2	11.8	-155.04	-299.7	-418.8	267.4	249.2	18.15	14.734		
4,200.0	4,117.0	4,193.7	4,152.3	15.6	12.1	-155.07	-308.8	-431.8	275.5	256.9	18.62	14.793		
4,300.0	4,214.4	4,293.3	4,250.7	16.1	12.4	-155.10	-317.9	-444.9	283.6	264.5	19.10	14.849		
4,400.0	4,311.7	4,393.0	4,349.1	16.5	12.7	-155.13	-327.0	-457.9	291.8	272.2	19.58	14.902		
4,500.0	4,409.0	4,492.7	4,447.5	17.0	13.1	-155.16	-336.1	-470.9	299.9	279.8	20.06	14.952		
4,600.0	4,506.4	4,592.3	4,545.9	17.4	13.4	-155.18	-345.1	-484.0	308.0	287.5	20.53	15.001		
4,700.0	4,603.7	4,692.0	4,644.3	17.8	13.7	-155.21	-354.2	-497.0	316.1	295.1	21.01	15.046		
4,800.0	4,701.1	4,791.7	4,742.7	18.3	14.1	-155.23	-363.3	-510.1	324.3	302.8	21.49	15.090		
4,900.0	4,798.4	4,891.3	4,841.0	18.7	14.4	-155.25	-372.4	-523.1	332.4	310.4	21.97	15.132		
5,000.0	4,895.7	4,991.0	4,939.4	19.2	14.7	-155.27	-381.5	-536.1	340.5	318.1	22.44	15.172		
5,100.0	4,993.1	5,090.7	5,037.8	19.6	15.0	-155.29	-390.6	-549.2	348.7	325.7	22.92	15.210		

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 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,090.4	5,190.4	5,136.2	20.1	15.4	-155.31	-399.7	-562.2	356.8	333.4	23.40	15.247		
5,300.0	5,187.7	5,290.0	5,234.6	20.5	15.7	-155.33	-408.8	-575.3	364.9	341.0	23.88	15.282		
5,400.0	5,285.1	5,389.7	5,333.0	21.0	16.0	-155.35	-417.9	-588.3	373.0	348.7	24.36	15.316		
5,500.0	5,382.4	5,489.4	5,431.4	21.4	16.4	-155.36	-427.0	-601.3	381.2	356.3	24.83	15.349		
5,600.0	5,479.8	5,589.0	5,529.8	21.8	16.7	-155.38	-436.1	-614.4	389.3	364.0	25.31	15.380		
5,700.0	5,577.1	5,688.7	5,628.2	22.3	17.0	-155.40	-445.1	-627.4	397.4	371.6	25.79	15.410		
5,800.0	5,674.4	5,788.4	5,726.6	22.7	17.3	-155.41	-454.2	-640.5	405.6	379.3	26.27	15.439		
5,900.0	5,771.8	5,888.0	5,825.0	23.2	17.7	-155.42	-463.3	-653.5	413.7	386.9	26.75	15.467		
6,000.0	5,869.1	5,987.7	5,923.4	23.6	18.0	-155.44	-472.4	-666.6	421.8	394.6	27.22	15.494		
6,100.0	5,966.4	6,087.4	6,021.8	24.1	18.3	-155.45	-481.5	-679.6	429.9	402.2	27.70	15.520		
6,200.0	6,063.8	6,187.0	6,120.2	24.5	18.7	-155.46	-490.6	-692.6	438.1	409.9	28.18	15.545		
6,300.0	6,161.1	6,286.7	6,218.5	24.9	19.0	-155.48	-499.7	-705.7	446.2	417.5	28.66	15.569		
6,400.0	6,258.5	6,386.4	6,316.9	25.4	19.3	-155.49	-508.8	-718.7	454.3	425.2	29.14	15.592		
6,500.0	6,355.8	6,486.1	6,415.3	25.8	19.6	-155.50	-517.9	-731.8	462.5	432.8	29.62	15.615		
6,600.0	6,453.1	6,585.7	6,513.7	26.3	20.0	-155.51	-527.0	-744.8	470.6	440.5	30.09	15.637		
6,700.0	6,550.5	6,685.4	6,612.1	26.7	20.3	-155.52	-536.0	-757.8	478.7	448.1	30.57	15.658		
6,800.0	6,647.8	6,785.1	6,710.5	27.2	20.6	-155.53	-545.1	-770.9	486.8	455.8	31.05	15.679		
6,900.0	6,745.2	6,884.7	6,808.9	27.6	21.0	-155.54	-554.2	-783.9	495.0	463.4	31.53	15.699		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3L-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	75.39	3.6	14.0	14.5						
100.0	100.0	100.0	100.0	0.2	0.2	75.39	3.6	14.0	14.5	14.2	0.30	47.602			
200.0	200.0	200.0	200.0	0.3	0.3	75.39	3.6	14.0	14.5	13.8	0.65	22.147 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	-172.11	3.6	14.0	15.3	14.3	1.00	15.294			
400.0	400.0	400.0	400.0	0.7	0.7	-173.26	3.6	14.0	17.9	16.6	1.35	13.267			
500.0	499.9	500.0	500.0	0.9	0.9	-174.33	3.5	13.8	22.1	20.4	1.70	12.983			
600.0	599.7	600.3	600.3	1.1	1.0	-173.97	2.3	12.6	26.6	24.5	2.05	12.971 SF			
700.0	699.4	700.7	700.6	1.3	1.2	-172.62	-0.1	10.0	31.2	28.8	2.40	13.028			
800.0	798.9	801.0	800.8	1.5	1.4	-170.68	-3.7	6.2	36.1	33.4	2.75	13.130			
900.0	898.3	901.5	901.0	1.8	1.6	-168.40	-8.6	1.1	41.3	38.2	3.11	13.260			
1,000.0	997.4	1,002.0	1,001.1	2.0	1.8	-165.92	-14.6	-5.3	46.7	43.2	3.49	13.399			
1,100.0	1,096.3	1,102.5	1,101.1	2.3	2.0	-163.34	-21.8	-13.0	52.5	48.6	3.88	13.532			
1,200.0	1,194.9	1,202.3	1,200.2	2.7	2.3	-161.23	-29.7	-21.3	59.2	54.9	4.28	13.825			
1,300.0	1,293.3	1,301.9	1,299.2	3.0	2.5	-160.06	-37.5	-29.6	67.6	62.9	4.69	14.408			
1,400.0	1,391.2	1,401.4	1,398.0	3.4	2.8	-159.59	-45.3	-37.9	77.7	72.6	5.11	15.215			
1,500.0	1,488.9	1,500.7	1,496.7	3.8	3.0	-159.62	-53.2	-46.2	89.4	83.9	5.52	16.202			
1,600.0	1,586.2	1,599.9	1,595.2	4.2	3.3	-159.90	-61.0	-54.5	102.3	96.4	5.93	17.244			
1,700.0	1,683.6	1,699.0	1,693.7	4.7	3.5	-160.14	-68.8	-62.7	115.2	108.9	6.35	18.150			
1,800.0	1,780.9	1,798.2	1,792.2	5.1	3.8	-160.33	-76.6	-71.0	128.2	121.4	6.77	18.940			
1,900.0	1,878.2	1,897.4	1,890.7	5.5	4.0	-160.49	-84.4	-79.3	141.1	133.9	7.19	19.636			
2,000.0	1,975.6	1,996.5	1,989.2	5.9	4.3	-160.62	-92.2	-87.6	154.0	146.4	7.61	20.253			
2,100.0	2,072.9	2,095.7	2,087.7	6.4	4.6	-160.73	-100.0	-95.8	167.0	158.9	8.03	20.803			
2,200.0	2,170.3	2,194.8	2,186.2	6.8	4.8	-160.82	-107.8	-104.1	179.9	171.4	8.45	21.297			
2,300.0	2,267.6	2,294.0	2,284.7	7.3	5.1	-160.90	-115.6	-112.4	192.8	184.0	8.87	21.742			
2,400.0	2,364.9	2,393.2	2,383.2	7.7	5.3	-160.98	-123.4	-120.6	205.8	196.5	9.29	22.146			
2,500.0	2,462.3	2,492.3	2,481.7	8.1	5.6	-161.04	-131.2	-128.9	218.7	209.0	9.71	22.514			
2,600.0	2,559.6	2,591.5	2,580.2	8.6	5.8	-161.09	-139.0	-137.2	231.6	221.5	10.14	22.851			
2,700.0	2,656.9	2,690.6	2,678.8	9.0	6.1	-161.14	-146.8	-145.4	244.6	234.0	10.56	23.159			
2,800.0	2,754.3	2,789.8	2,777.3	9.4	6.4	-161.19	-154.6	-153.7	257.5	246.5	10.98	23.444			
2,900.0	2,851.6	2,889.0	2,875.8	9.9	6.6	-161.23	-162.4	-162.0	270.4	259.0	11.41	23.706			
3,000.0	2,949.0	2,988.1	2,974.3	10.3	6.9	-161.27	-170.2	-170.2	283.4	271.5	11.83	23.950			
3,100.0	3,046.3	3,087.3	3,072.8	10.8	7.2	-161.30	-178.0	-178.5	296.3	284.0	12.26	24.176			
3,200.0	3,143.6	3,186.4	3,171.3	11.2	7.4	-161.33	-185.8	-186.8	309.2	296.5	12.68	24.387			
3,300.0	3,241.0	3,285.6	3,269.8	11.7	7.7	-161.36	-193.6	-195.0	322.2	309.1	13.10	24.583			
3,400.0	3,338.3	3,384.8	3,368.3	12.1	7.9	-161.38	-201.4	-203.3	335.1	321.6	13.53	24.767			
3,500.0	3,435.7	3,483.9	3,466.8	12.5	8.2	-161.41	-209.2	-211.6	348.0	334.1	13.95	24.940			
3,600.0	3,533.0	3,583.1	3,565.3	13.0	8.5	-161.43	-217.0	-219.9	361.0	346.6	14.38	25.102			
3,700.0	3,630.3	3,682.2	3,663.8	13.4	8.7	-161.45	-224.8	-228.1	373.9	359.1	14.80	25.255			
3,800.0	3,727.7	3,781.4	3,762.3	13.9	9.0	-161.47	-232.6	-236.4	386.8	371.6	15.23	25.399			
3,900.0	3,825.0	3,880.6	3,860.8	14.3	9.3	-161.49	-240.4	-244.7	399.8	384.1	15.66	25.535			
4,000.0	3,922.3	3,979.7	3,959.3	14.7	9.5	-161.51	-248.2	-252.9	412.7	396.6	16.08	25.664			
4,100.0	4,019.7	4,078.9	4,057.8	15.2	9.8	-161.52	-256.0	-261.2	425.6	409.1	16.51	25.786			
4,200.0	4,117.0	4,178.0	4,156.3	15.6	10.0	-161.54	-263.8	-269.5	438.6	421.6	16.93	25.901			
4,300.0	4,214.4	4,277.2	4,254.8	16.1	10.3	-161.55	-271.6	-277.7	451.5	434.1	17.36	26.011			
4,400.0	4,311.7	4,376.4	4,353.4	16.5	10.6	-161.57	-279.4	-286.0	464.4	446.7	17.78	26.116			
4,500.0	4,409.0	4,475.5	4,451.9	17.0	10.8	-161.58	-287.2	-294.3	477.4	459.2	18.21	26.216			
4,600.0	4,506.4	4,574.7	4,550.4	17.4	11.1	-161.59	-295.0	-302.5	490.3	471.7	18.64	26.310			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	89.99	0.0	30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	30.8	30.8	30.5	0.30	101.338		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	30.8	30.8	30.1	0.65	47.147 CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	-156.17	-0.8	30.4	31.3	30.3	1.00	31.159		
400.0	400.0	400.4	400.3	0.7	0.7	-153.73	-3.2	29.5	32.7	31.4	1.36	24.103		
500.0	499.9	500.5	500.3	0.9	0.9	-150.12	-7.3	27.8	35.3	33.6	1.72	20.492		
600.0	599.7	600.5	600.2	1.1	1.1	-145.90	-13.0	25.5	39.1	37.0	2.11	18.576		
700.0	699.4	700.4	699.8	1.3	1.3	-141.57	-20.2	22.6	44.2	41.7	2.51	17.609		
800.0	798.9	800.2	799.2	1.5	1.5	-137.85	-28.8	19.1	50.8	47.9	2.94	17.261 SF		
900.0	898.3	899.9	898.4	1.8	1.7	-136.05	-37.5	15.6	58.7	55.4	3.39	17.343		
1,000.0	997.4	999.5	997.5	2.0	2.0	-135.70	-46.2	12.1	68.0	64.1	3.84	17.688		
1,100.0	1,096.3	1,098.9	1,096.5	2.3	2.2	-136.31	-54.9	8.6	78.4	74.1	4.31	18.218		
1,200.0	1,194.9	1,198.2	1,195.4	2.7	2.4	-137.51	-63.5	5.1	90.2	85.4	4.77	18.894		
1,300.0	1,293.3	1,297.3	1,294.0	3.0	2.7	-139.06	-72.1	1.6	103.3	98.1	5.24	19.698		
1,400.0	1,391.2	1,396.2	1,392.5	3.4	2.9	-140.77	-80.8	-1.9	117.8	112.1	5.71	20.618		
1,500.0	1,488.9	1,494.8	1,490.7	3.8	3.1	-142.55	-89.4	-5.4	133.7	127.6	6.18	21.644		
1,600.0	1,586.2	1,593.2	1,588.7	4.2	3.4	-144.29	-97.9	-8.8	150.8	144.2	6.64	22.707		
1,700.0	1,683.6	1,691.7	1,686.7	4.7	3.6	-145.70	-106.5	-12.3	168.0	160.9	7.10	23.655		
1,800.0	1,780.9	1,790.1	1,784.7	5.1	3.8	-146.85	-115.1	-15.8	185.3	177.8	7.56	24.501		
1,900.0	1,878.2	1,888.5	1,882.7	5.5	4.1	-147.80	-123.7	-19.2	202.7	194.7	8.02	25.260		
2,000.0	1,975.6	1,987.0	1,980.6	5.9	4.3	-148.60	-132.3	-22.7	220.1	211.6	8.48	25.944		
2,100.0	2,072.9	2,085.4	2,078.6	6.4	4.5	-149.29	-140.8	-26.2	237.5	228.6	8.94	26.562		
2,200.0	2,170.3	2,183.8	2,176.6	6.8	4.8	-149.88	-149.4	-29.7	255.0	245.6	9.40	27.124		
2,300.0	2,267.6	2,282.3	2,274.6	7.3	5.0	-150.39	-158.0	-33.1	272.5	262.6	9.86	27.636		
2,400.0	2,364.9	2,380.7	2,372.6	7.7	5.2	-150.85	-166.6	-36.6	290.0	279.7	10.32	28.105		
2,500.0	2,462.3	2,479.1	2,470.6	8.1	5.5	-151.25	-175.2	-40.1	307.5	296.7	10.78	28.536		
2,600.0	2,559.6	2,577.6	2,568.6	8.6	5.7	-151.61	-183.7	-43.5	325.1	313.8	11.23	28.934		
2,700.0	2,656.9	2,676.0	2,666.6	9.0	5.9	-151.93	-192.3	-47.0	342.6	330.9	11.69	29.301		
2,800.0	2,754.3	2,774.4	2,764.6	9.4	6.2	-152.22	-200.9	-50.5	360.2	348.0	12.15	29.642		
2,900.0	2,851.6	2,872.8	2,862.6	9.9	6.4	-152.48	-209.5	-53.9	377.7	365.1	12.61	29.958		
3,000.0	2,949.0	2,971.3	2,960.6	10.3	6.6	-152.72	-218.1	-57.4	395.3	382.2	13.07	30.253		
3,100.0	3,046.3	3,069.7	3,058.6	10.8	6.9	-152.94	-226.6	-60.9	412.9	399.4	13.52	30.529		
3,200.0	3,143.6	3,168.1	3,156.6	11.2	7.1	-153.14	-235.2	-64.3	430.5	416.5	13.98	30.787		
3,300.0	3,241.0	3,266.6	3,254.6	11.7	7.4	-153.33	-243.8	-67.8	448.1	433.6	14.44	31.029		
3,400.0	3,338.3	3,365.0	3,352.6	12.1	7.6	-153.50	-252.4	-71.3	465.7	450.8	14.90	31.257		
3,500.0	3,435.7	3,463.4	3,450.6	12.5	7.8	-153.66	-261.0	-74.8	483.3	467.9	15.36	31.471		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3N-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (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	83.80	3.6	33.6	33.8					
100.0	100.0	100.0	100.0	0.2	0.2	83.80	3.6	33.6	33.8	33.5	0.30	111.201		
200.0	200.0	200.0	200.0	0.3	0.3	83.80	3.6	33.6	33.8	33.1	0.65	51.735 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-163.64	3.6	33.6	34.6	33.6	1.00	34.545		
400.0	400.0	399.9	399.9	0.7	0.7	-163.43	2.8	33.7	37.2	35.8	1.35	27.518		
500.0	499.9	499.7	499.7	0.9	0.9	-161.54	0.2	34.3	41.6	39.9	1.71	24.406		
600.0	599.7	599.4	599.3	1.1	1.0	-158.67	-4.0	35.1	48.0	45.9	2.07	23.209		
700.0	699.4	698.8	698.5	1.3	1.2	-155.44	-10.0	36.3	56.4	54.0	2.44	23.084 SF		
800.0	798.9	797.9	797.3	1.5	1.4	-152.28	-17.6	37.8	66.9	64.1	2.84	23.598		
900.0	898.3	896.9	895.9	1.8	1.7	-149.62	-26.5	39.6	79.6	76.3	3.25	24.510		
1,000.0	997.4	995.9	994.4	2.0	1.9	-148.15	-35.6	41.4	93.8	90.2	3.67	25.586		
1,100.0	1,096.3	1,094.6	1,092.7	2.3	2.1	-147.54	-44.7	43.3	109.6	105.5	4.10	26.747		
1,200.0	1,194.9	1,193.1	1,190.8	2.7	2.3	-147.48	-53.7	45.1	126.8	122.3	4.54	27.961		
1,300.0	1,293.3	1,291.4	1,288.6	3.0	2.6	-147.78	-62.8	46.9	145.5	140.5	4.98	29.216		
1,400.0	1,391.2	1,389.3	1,386.1	3.4	2.8	-148.31	-71.8	48.7	165.6	160.2	5.43	30.506		
1,500.0	1,488.9	1,486.9	1,483.3	3.8	3.0	-148.98	-80.7	50.5	187.2	181.3	5.88	31.831		
1,600.0	1,586.2	1,584.3	1,580.2	4.2	3.2	-149.75	-89.7	52.3	209.9	203.6	6.34	33.112		
1,700.0	1,683.6	1,681.6	1,677.1	4.7	3.5	-150.40	-98.6	54.1	232.7	225.9	6.80	34.218		
1,800.0	1,780.9	1,779.0	1,774.0	5.1	3.7	-150.93	-107.6	55.8	255.5	248.2	7.26	35.184		
1,900.0	1,878.2	1,876.3	1,870.9	5.5	3.9	-151.38	-116.5	57.6	278.3	270.6	7.72	36.034		
2,000.0	1,975.6	1,973.7	1,967.9	5.9	4.2	-151.75	-125.5	59.4	301.1	292.9	8.18	36.788		
2,100.0	2,072.9	2,071.0	2,064.8	6.4	4.4	-152.08	-134.4	61.2	323.9	315.3	8.65	37.460		
2,200.0	2,170.3	2,168.3	2,161.7	6.8	4.6	-152.36	-143.4	63.0	346.8	337.7	9.11	38.064		
2,300.0	2,267.6	2,265.7	2,258.6	7.3	4.9	-152.61	-152.3	64.8	369.6	360.0	9.57	38.609		
2,400.0	2,364.9	2,363.0	2,355.5	7.7	5.1	-152.83	-161.3	66.6	392.5	382.4	10.04	39.104		
2,500.0	2,462.3	2,460.4	2,452.4	8.1	5.3	-153.02	-170.2	68.4	415.3	404.8	10.50	39.554		
2,600.0	2,559.6	2,557.7	2,549.4	8.6	5.6	-153.20	-179.2	70.2	438.2	427.2	10.96	39.966		
2,700.0	2,656.9	2,655.1	2,646.3	9.0	5.8	-153.35	-188.1	72.0	461.1	449.6	11.43	40.345		
2,800.0	2,754.3	2,752.4	2,743.2	9.4	6.0	-153.50	-197.1	73.8	483.9	472.0	11.89	40.693		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3O-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.99	0.0	39.2	39.2					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	39.2	39.2	38.9	0.30	128.976		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	39.2	39.2	38.5	0.65	60.005 CC, ES		
300.0	300.0	299.8	299.8	0.5	0.5	-157.27	-0.2	39.3	40.1	39.1	1.00	40.047		
400.0	400.0	399.3	399.2	0.7	0.7	-156.80	-1.5	40.4	43.6	42.3	1.35	32.265		
500.0	499.9	498.6	498.5	0.9	0.9	-155.65	-4.2	42.5	49.8	48.1	1.71	29.204		
600.0	599.7	597.5	597.3	1.1	1.0	-154.20	-8.2	45.8	58.7	56.7	2.07	28.427 SF		
700.0	699.4	696.1	695.6	1.3	1.2	-152.71	-13.5	50.0	70.4	67.9	2.43	28.903		
800.0	798.9	794.1	793.3	1.5	1.5	-151.35	-20.1	55.3	84.8	82.0	2.82	30.111		
900.0	898.3	891.5	890.2	1.8	1.7	-150.17	-28.0	61.6	101.9	98.7	3.21	31.754		
1,000.0	997.4	989.5	987.5	2.0	1.9	-149.37	-36.7	68.6	121.2	117.6	3.61	33.559		
1,100.0	1,096.3	1,087.3	1,084.7	2.3	2.2	-149.12	-45.3	75.5	142.1	138.0	4.02	35.297		
1,200.0	1,194.9	1,184.8	1,181.5	2.7	2.4	-149.22	-54.0	82.4	164.3	159.9	4.44	36.981		
1,300.0	1,293.3	1,281.9	1,278.0	3.0	2.7	-149.53	-62.6	89.3	188.1	183.2	4.87	38.621		
1,400.0	1,391.2	1,378.6	1,374.1	3.4	2.9	-149.99	-71.1	96.2	213.3	208.0	5.30	40.231		
1,500.0	1,488.9	1,475.0	1,469.9	3.8	3.2	-150.53	-79.7	103.0	240.0	234.3	5.74	41.819		
1,600.0	1,586.2	1,571.0	1,565.2	4.2	3.4	-151.17	-88.2	109.9	267.8	261.7	6.18	43.305		
1,700.0	1,683.6	1,667.0	1,660.6	4.7	3.7	-151.72	-96.7	116.7	295.7	289.1	6.63	44.578		
1,800.0	1,780.9	1,763.0	1,756.0	5.1	3.9	-152.18	-105.2	123.5	323.6	316.5	7.08	45.688		
1,900.0	1,878.2	1,859.0	1,851.4	5.5	4.2	-152.56	-113.7	130.3	351.5	344.0	7.53	46.663		
2,000.0	1,975.6	1,955.0	1,946.8	5.9	4.4	-152.89	-122.2	137.1	379.4	371.4	7.98	47.527		
2,100.0	2,072.9	2,051.0	2,042.2	6.4	4.7	-153.17	-130.7	144.0	407.3	398.9	8.43	48.296		
2,200.0	2,170.3	2,147.0	2,137.5	6.8	4.9	-153.42	-139.2	150.8	435.3	426.4	8.89	48.986		
2,300.0	2,267.6	2,243.0	2,232.9	7.3	5.2	-153.64	-147.7	157.6	463.2	453.9	9.34	49.608		
2,400.0	2,364.9	2,339.0	2,328.3	7.7	5.4	-153.83	-156.2	164.4	491.2	481.4	9.79	50.172		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 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	0.0	0.0	0.0	0.0	85.34	3.6	44.8	44.9					
100.0	100.0	100.0	100.0	0.2	0.2	85.34	3.6	44.8	44.9	44.6	0.30	147.889		
200.0	200.0	200.0	200.0	0.3	0.3	85.34	3.6	44.8	44.9	44.3	0.65	68.804 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	-161.30	3.1	45.4	46.4	45.4	1.00	46.327		
400.0	400.0	398.7	398.6	0.7	0.7	-160.27	1.5	47.5	50.8	49.5	1.35	37.592		
500.0	499.9	497.7	497.5	0.9	0.9	-158.91	-1.1	50.9	58.2	56.5	1.70	34.131		
600.0	599.7	596.3	596.0	1.1	1.1	-157.49	-4.7	55.6	68.6	66.5	2.06	33.230 SF		
700.0	699.4	694.3	693.7	1.3	1.3	-156.19	-9.4	61.6	81.9	79.5	2.43	33.742		
800.0	798.9	791.8	790.7	1.5	1.5	-155.07	-15.0	68.9	98.2	95.4	2.80	35.089		
900.0	898.3	888.4	886.7	1.8	1.7	-154.13	-21.6	77.4	117.4	114.3	3.18	36.947		
1,000.0	997.4	984.1	981.7	2.0	2.0	-153.36	-29.1	87.2	139.6	136.0	3.57	39.120		
1,100.0	1,096.3	1,079.2	1,075.7	2.3	2.3	-152.72	-37.5	98.0	164.6	160.6	3.97	41.491		
1,200.0	1,194.9	1,175.4	1,170.9	2.7	2.6	-152.34	-46.4	109.5	191.6	187.2	4.38	43.775		
1,300.0	1,293.3	1,271.3	1,265.7	3.0	2.9	-152.23	-55.2	120.9	220.0	215.3	4.79	45.914		
1,400.0	1,391.2	1,366.7	1,360.0	3.4	3.1	-152.31	-64.0	132.3	250.0	244.8	5.22	47.937		
1,500.0	1,488.9	1,461.6	1,453.8	3.8	3.4	-152.50	-72.7	143.6	281.4	275.8	5.64	49.865		
1,600.0	1,586.2	1,556.2	1,547.3	4.2	3.7	-152.85	-81.5	154.9	313.9	307.9	6.08	51.608		
1,700.0	1,683.6	1,650.7	1,640.7	4.7	4.0	-153.17	-90.2	166.2	346.5	340.0	6.53	53.087		
1,800.0	1,780.9	1,745.2	1,734.2	5.1	4.3	-153.43	-98.9	177.4	379.1	372.1	6.97	54.365		
1,900.0	1,878.2	1,839.8	1,827.6	5.5	4.6	-153.65	-107.6	188.7	411.7	404.2	7.42	55.481		
2,000.0	1,975.6	1,934.3	1,921.1	5.9	4.9	-153.84	-116.3	200.0	444.2	436.4	7.87	56.462		
2,100.0	2,072.9	2,028.8	2,014.6	6.4	5.2	-154.01	-125.0	211.3	476.8	468.5	8.32	57.333		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
3,300.0	3,241.0	3,213.0	3,213.0	11.7	5.6	47.01	-25.5	-963.5	488.3	473.3	14.94	32.675		
3,400.0	3,338.3	3,310.3	3,310.3	12.1	5.8	49.01	-25.5	-963.5	472.7	457.1	15.66	30.194		
3,500.0	3,435.7	3,407.7	3,407.7	12.5	5.9	51.14	-25.5	-963.5	457.8	441.4	16.39	27.927		
3,600.0	3,533.0	3,505.0	3,505.0	13.0	6.1	53.41	-25.5	-963.5	443.5	426.4	17.15	25.859		
3,700.0	3,630.3	3,602.3	3,602.3	13.4	6.3	55.82	-25.5	-963.5	430.0	412.1	17.93	23.980		
3,800.0	3,727.7	3,699.7	3,699.7	13.9	6.5	58.37	-25.5	-963.5	417.3	398.6	18.73	22.279		
3,900.0	3,825.0	3,797.0	3,797.0	14.3	6.6	61.07	-25.5	-963.5	405.5	386.0	19.55	20.747		
4,000.0	3,922.3	3,894.3	3,894.3	14.7	6.8	63.92	-25.5	-963.5	394.7	374.3	20.37	19.375		
4,100.0	4,019.7	3,991.7	3,991.7	15.2	7.0	66.92	-25.5	-963.5	385.0	363.8	21.20	18.157		
4,200.0	4,117.0	4,089.0	4,089.0	15.6	7.1	70.06	-25.5	-963.5	376.4	354.3	22.03	17.084		
4,300.0	4,214.4	4,186.4	4,186.4	16.1	7.3	73.32	-25.5	-963.5	369.0	346.1	22.85	16.150		
4,400.0	4,311.7	4,283.7	4,283.7	16.5	7.5	76.70	-25.5	-963.5	362.9	339.2	23.64	15.349		
4,500.0	4,409.0	4,381.0	4,381.0	17.0	7.6	80.18	-25.5	-963.5	358.2	333.8	24.41	14.673		
4,600.0	4,506.4	4,478.4	4,478.4	17.4	7.8	83.73	-25.5	-963.5	354.9	329.7	25.14	14.117		
4,700.0	4,603.7	4,575.7	4,575.7	17.8	8.0	87.34	-25.5	-963.5	353.1	327.2	25.82	13.673		
4,773.6	4,675.3	4,647.3	4,647.3	18.2	8.1	90.00	-25.5	-963.5	352.6	326.4	26.29	13.415 CC		
4,800.0	4,701.1	4,673.1	4,673.1	18.3	8.2	90.96	-25.5	-963.5	352.7	326.3	26.45	13.336 ES		
4,900.0	4,798.4	4,770.4	4,770.4	18.7	8.3	94.57	-25.5	-963.5	353.8	326.8	27.01	13.098		
5,000.0	4,895.7	4,867.7	4,867.7	19.2	8.5	98.15	-25.5	-963.5	356.4	328.9	27.52	12.953 SF		
5,100.0	4,993.1	4,876.0	4,876.0	19.6	8.5	98.45	-25.5	-963.5	371.3	343.4	27.96	13.280		
5,200.0	5,090.4	4,876.0	4,876.0	20.1	8.5	98.45	-25.5	-963.5	410.7	382.3	28.40	14.460		
5,300.0	5,187.7	4,876.0	4,876.0	20.5	8.5	98.45	-25.5	-963.5	468.4	439.6	28.84	16.242		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 4996-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	60.00	185.8	321.7	371.5					
100.0	100.0	99.0	99.0	0.2	0.2	60.00	185.8	321.7	371.5	371.2	0.32	1,145.923		
200.0	200.0	199.0	199.0	0.3	0.3	60.00	185.8	321.7	371.5	370.9	0.67	552.158 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	172.99	185.8	321.7	372.4	371.4	1.02	364.582		
400.0	400.0	399.0	399.0	0.7	0.7	173.03	185.8	321.7	375.0	373.6	1.37	273.768		
500.0	499.9	498.9	498.9	0.9	0.9	173.11	185.8	321.7	379.3	377.6	1.72	220.832		
600.0	599.7	598.7	598.7	1.1	1.0	173.21	185.8	321.7	385.4	383.3	2.07	186.613		
700.0	699.4	698.4	698.4	1.3	1.2	173.33	185.8	321.7	393.2	390.8	2.41	163.010		
800.0	798.9	797.9	797.9	1.5	1.4	173.48	185.8	321.7	402.7	399.9	2.76	146.011		
900.0	898.3	897.3	897.3	1.8	1.6	173.65	185.8	321.7	413.9	410.8	3.10	133.399		
1,000.0	997.4	996.4	996.4	2.0	1.7	173.83	185.8	321.7	426.9	423.5	3.45	123.853		
1,100.0	1,096.3	1,095.3	1,095.3	2.3	1.9	174.02	185.8	321.7	441.6	437.8	3.79	116.535		
1,200.0	1,194.9	1,193.9	1,193.9	2.7	2.1	174.22	185.8	321.7	458.0	453.9	4.13	110.888		
1,300.0	1,293.3	1,292.3	1,292.3	3.0	2.2	174.42	185.8	321.7	476.2	471.7	4.47	106.526		
1,400.0	1,391.2	1,390.2	1,390.2	3.4	2.4	174.62	185.8	321.7	496.0	491.2	4.81	103.177 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 5035-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	
4,300.0	4,214.4	4,192.4	4,192.4	16.1	7.3	-38.64	-734.0	-963.6	488.0	469.1	18.86	25.868	
4,400.0	4,311.7	4,289.7	4,289.7	16.5	7.5	-40.36	-734.0	-963.6	470.1	450.5	19.61	23.977	
4,500.0	4,409.0	4,387.0	4,387.0	17.0	7.7	-42.22	-734.0	-963.6	452.7	432.3	20.38	22.210	
4,600.0	4,506.4	4,484.4	4,484.4	17.4	7.8	-44.22	-734.0	-963.6	435.8	414.6	21.19	20.563	
4,700.0	4,603.7	4,581.7	4,581.7	17.8	8.0	-46.37	-734.0	-963.6	419.4	397.4	22.04	19.032	
4,800.0	4,701.1	4,679.1	4,679.1	18.3	8.2	-48.69	-734.0	-963.6	403.7	380.8	22.92	17.615	
4,900.0	4,798.4	4,776.4	4,776.4	18.7	8.3	-51.19	-734.0	-963.6	388.7	364.9	23.83	16.310	
5,000.0	4,895.7	4,873.7	4,873.7	19.2	8.5	-53.88	-734.0	-963.6	374.5	349.8	24.78	15.114	
5,100.0	4,993.1	4,971.1	4,971.1	19.6	8.7	-56.76	-734.0	-963.6	361.3	335.5	25.75	14.027	
5,200.0	5,090.4	5,035.0	5,035.0	20.1	8.8	-58.76	-734.0	-963.6	350.6	324.0	26.54	13.209	
5,208.5	5,098.7	5,035.0	5,035.0	20.1	8.8	-58.76	-734.0	-963.6	350.5	323.9	26.57	13.189 CC, ES, SF	
5,300.0	5,187.7	5,035.0	5,035.0	20.5	8.8	-58.76	-734.0	-963.6	362.2	335.3	26.93	13.451	
5,400.0	5,285.1	5,035.0	5,035.0	21.0	8.8	-58.76	-734.0	-963.6	399.4	372.1	27.32	14.619	
5,500.0	5,382.4	5,035.0	5,035.0	21.4	8.8	-58.76	-734.0	-963.6	455.9	428.2	27.71	16.452	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - 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							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		
2,100.0	2,072.9	2,061.9	2,061.9	6.4	3.6	-38.47	-539.9	-502.5	491.8	483.4	8.45	58.232		
2,200.0	2,170.3	2,159.3	2,159.3	6.8	3.8	-40.17	-539.9	-502.5	473.9	464.9	9.01	52.623		
2,300.0	2,267.6	2,256.6	2,256.6	7.3	3.9	-42.01	-539.9	-502.5	456.4	446.8	9.59	47.602		
2,400.0	2,364.9	2,353.9	2,353.9	7.7	4.1	-43.98	-539.9	-502.5	439.4	429.3	10.20	43.102		
2,500.0	2,462.3	2,451.3	2,451.3	8.1	4.3	-46.11	-539.9	-502.5	423.0	412.2	10.83	39.066		
2,600.0	2,559.6	2,548.6	2,548.6	8.6	4.4	-48.40	-539.9	-502.5	407.3	395.8	11.49	35.450		
2,700.0	2,656.9	2,645.9	2,645.9	9.0	4.6	-50.86	-539.9	-502.5	392.2	380.0	12.17	32.213		
2,800.0	2,754.3	2,743.3	2,743.3	9.4	4.8	-53.51	-539.9	-502.5	377.9	365.0	12.89	29.323		
2,900.0	2,851.6	2,840.6	2,840.6	9.9	5.0	-56.36	-539.9	-502.5	364.5	350.9	13.62	26.752		
3,000.0	2,949.0	2,938.0	2,938.0	10.3	5.1	-59.41	-539.9	-502.5	352.1	337.7	14.38	24.476		
3,100.0	3,046.3	3,035.3	3,035.3	10.8	5.3	-62.66	-539.9	-502.5	340.7	325.6	15.16	22.475		
3,200.0	3,143.6	3,132.6	3,132.6	11.2	5.5	-66.11	-539.9	-502.5	330.6	314.6	15.95	20.730		
3,300.0	3,241.0	3,230.0	3,230.0	11.7	5.6	-69.75	-539.9	-502.5	321.8	305.0	16.74	19.225		
3,400.0	3,338.3	3,327.3	3,327.3	12.1	5.8	-73.58	-539.9	-502.5	314.4	296.9	17.52	17.944		
3,500.0	3,435.7	3,424.7	3,424.7	12.5	6.0	-77.56	-539.9	-502.5	308.5	290.2	18.28	16.873		
3,600.0	3,533.0	3,522.0	3,522.0	13.0	6.1	-81.67	-539.9	-502.5	304.3	285.3	19.02	15.999		
3,700.0	3,630.3	3,619.3	3,619.3	13.4	6.3	-85.87	-539.9	-502.5	301.7	282.0	19.71	15.308		
3,797.5	3,725.2	3,714.2	3,714.2	13.9	6.5	-90.00	-539.9	-502.5	300.9	280.6	20.33	14.797 CC		
3,800.0	3,727.7	3,716.7	3,716.7	13.9	6.5	-90.11	-539.9	-502.5	300.9	280.5	20.35	14.786 ES		
3,900.0	3,825.0	3,814.0	3,814.0	14.3	6.7	-94.35	-539.9	-502.5	301.8	280.9	20.93	14.420		
4,000.0	3,922.3	3,911.3	3,911.3	14.7	6.8	-98.54	-539.9	-502.5	304.4	283.0	21.45	14.196		
4,100.0	4,019.7	4,008.7	4,008.7	15.2	7.0	-102.64	-539.9	-502.5	308.8	286.9	21.90	14.102 SF		
4,200.0	4,117.0	4,106.0	4,106.0	15.6	7.2	-106.62	-539.9	-502.5	314.7	292.4	22.28	14.123		
4,300.0	4,214.4	4,203.4	4,203.4	16.1	7.3	-110.43	-539.9	-502.5	322.2	299.6	22.61	14.248		
4,400.0	4,311.7	4,300.7	4,300.7	16.5	7.5	-114.07	-539.9	-502.5	331.1	308.2	22.89	14.463		
4,500.0	4,409.0	4,398.0	4,398.0	17.0	7.7	-117.51	-539.9	-502.5	341.3	318.1	23.12	14.758		
4,600.0	4,506.4	4,495.4	4,495.4	17.4	7.8	-120.75	-539.9	-502.5	352.7	329.3	23.32	15.121		
4,700.0	4,603.7	4,592.7	4,592.7	17.8	8.0	-123.79	-539.9	-502.5	365.1	341.6	23.49	15.541		
4,800.0	4,701.1	4,690.1	4,690.1	18.3	8.2	-126.62	-539.9	-502.5	378.6	354.9	23.65	16.011		
4,900.0	4,798.4	4,787.4	4,787.4	18.7	8.4	-129.26	-539.9	-502.5	392.9	369.1	23.78	16.521		
5,000.0	4,895.7	4,884.7	4,884.7	19.2	8.5	-131.72	-539.9	-502.5	408.0	384.1	23.91	17.065		
5,100.0	4,993.1	4,982.1	4,982.1	19.6	8.7	-134.00	-539.9	-502.5	423.8	399.8	24.04	17.634		
5,200.0	5,090.4	5,079.4	5,079.4	20.1	8.9	-136.12	-539.9	-502.5	440.3	416.1	24.16	18.224		
5,300.0	5,187.7	5,176.7	5,176.7	20.5	9.0	-138.09	-539.9	-502.5	457.3	433.0	24.29	18.830		
5,400.0	5,285.1	5,274.1	5,274.1	21.0	9.2	-139.91	-539.9	-502.5	474.8	450.4	24.41	19.447		
5,500.0	5,382.4	5,371.4	5,371.4	21.4	9.4	-141.61	-539.9	-502.5	492.7	468.2	24.55	20.071		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 47-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	
8,800.0	7,606.0	7,675.3	7,585.4	33.3	20.1	-91.80	1,113.7	-1,598.5	431.2	394.5	36.61	11.776	
8,900.0	7,606.0	7,674.9	7,585.1	34.1	20.1	-91.54	1,113.7	-1,598.6	333.2	295.3	37.94	8.783	
9,000.0	7,606.0	7,674.5	7,584.7	35.0	20.1	-91.27	1,113.7	-1,598.6	237.0	197.7	39.33	6.027	
9,100.0	7,606.0	7,674.2	7,584.3	35.9	20.1	-91.00	1,113.7	-1,598.6	146.1	105.3	40.76	3.584	
9,200.0	7,606.0	7,673.8	7,584.0	36.9	20.1	-90.73	1,113.7	-1,598.6	80.6	38.3	42.24	1.907	
9,224.3	7,606.0	7,673.7	7,583.9	37.2	20.1	-90.67	1,113.7	-1,598.6	76.8	34.2	42.60	1.803 CC, ES, SF	
9,300.0	7,606.0	7,673.5	7,583.6	38.0	20.1	-90.47	1,113.7	-1,598.6	107.9	64.1	43.75	2.466	
9,400.0	7,606.0	7,673.1	7,583.3	39.1	20.1	-90.20	1,113.7	-1,598.6	191.8	146.5	45.28	4.235	
9,500.0	7,606.0	7,672.7	7,582.9	40.3	20.1	-89.93	1,113.7	-1,598.6	286.2	239.4	46.84	6.111	
9,600.0	7,606.0	7,672.4	7,582.6	41.4	20.1	-89.67	1,113.7	-1,598.6	383.5	335.1	48.42	7.920	
9,700.0	7,606.0	7,672.0	7,582.2	42.7	20.1	-89.40	1,113.7	-1,598.6	481.9	431.9	50.02	9.635	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 119-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)						
2,500.0	2,462.3	2,549.0	2,506.7	8.1	8.2	-11.39	-413.9	-744.1	480.6	468.1	12.51	38.410		
2,600.0	2,559.6	2,636.9	2,591.4	8.6	8.7	-8.92	-391.8	-751.8	451.9	438.8	13.07	34.585		
2,700.0	2,656.9	2,728.8	2,680.0	9.0	9.1	-5.98	-368.9	-760.6	424.9	411.2	13.64	31.137		
2,800.0	2,754.3	2,820.0	2,767.8	9.4	9.6	-2.68	-346.0	-769.7	399.5	385.2	14.23	28.078		
2,900.0	2,851.6	2,912.8	2,857.4	9.9	10.0	0.94	-323.8	-779.2	376.1	361.3	14.82	25.377		
3,000.0	2,949.0	3,006.1	2,947.4	10.3	10.5	5.08	-301.1	-789.0	354.8	339.3	15.47	22.936		
3,100.0	3,046.3	3,094.2	3,032.1	10.8	10.9	9.53	-279.1	-799.3	336.6	320.5	16.15	20.846		
3,200.0	3,143.6	3,184.6	3,118.9	11.2	11.4	14.46	-257.0	-811.1	322.5	305.6	16.88	19.100		
3,300.0	3,241.0	3,280.1	3,210.9	11.7	11.9	19.81	-235.1	-824.0	311.8	294.1	17.67	17.646		
3,400.0	3,338.3	3,379.1	3,306.7	12.1	12.3	25.53	-213.1	-836.2	303.1	284.6	18.49	16.388		
3,500.0	3,435.7	3,472.4	3,397.0	12.5	12.8	31.13	-192.5	-847.4	297.2	277.9	19.27	15.422		
3,600.0	3,533.0	3,568.7	3,490.4	13.0	13.2	36.82	-172.5	-859.4	294.8	274.7	20.01	14.731		
3,659.7	3,591.1	3,627.6	3,547.7	13.2	13.5	40.32	-160.4	-866.4	294.4	274.0	20.43	14.409 CC		
3,700.0	3,630.3	3,666.1	3,585.1	13.4	13.6	42.59	-152.6	-870.8	294.6	273.9	20.69	14.238 ES		
3,800.0	3,727.7	3,761.8	3,678.2	13.9	14.0	48.14	-133.5	-881.9	297.4	276.1	21.30	13.963		
3,900.0	3,825.0	3,859.6	3,773.4	14.3	14.5	53.84	-113.5	-892.4	302.6	280.8	21.85	13.853		
4,000.0	3,922.3	3,955.8	3,867.1	14.7	14.9	59.17	-94.3	-902.3	310.2	287.9	22.32	13.898		
4,100.0	4,019.7	4,045.8	3,954.7	15.2	15.3	63.83	-76.3	-912.4	321.2	298.5	22.76	14.113		
4,200.0	4,117.0	4,135.2	4,041.3	15.6	15.7	68.17	-57.3	-923.4	336.3	313.1	23.19	14.500		
4,300.0	4,214.4	4,233.9	4,136.8	16.1	16.2	72.60	-35.5	-935.8	354.2	330.6	23.63	14.990		
4,400.0	4,311.7	4,340.9	4,241.1	16.5	16.6	76.92	-14.5	-947.5	371.0	346.9	24.11	15.389		
4,500.0	4,409.0	4,433.0	4,331.0	17.0	17.0	80.21	2.6	-957.8	388.8	364.1	24.63	15.784		
4,600.0	4,506.4	4,520.0	4,415.7	17.4	17.4	83.03	19.4	-968.1	408.7	383.5	25.18	16.229		
4,700.0	4,603.7	4,605.5	4,498.6	17.8	17.8	85.52	37.4	-979.4	431.9	406.1	25.78	16.756		
4,800.0	4,701.1	4,696.5	4,586.1	18.3	18.3	88.06	59.2	-991.2	458.5	432.1	26.41	17.359		
4,900.0	4,798.4	4,801.5	4,687.6	18.7	18.8	90.88	83.5	-1,002.8	484.4	457.3	27.11	17.865		
8,200.0	7,606.0	7,759.2	7,608.1	30.2	26.4	88.98	388.6	-1,162.8	438.2	399.2	39.06	11.220		
8,300.0	7,606.0	7,761.1	7,610.0	30.5	26.4	89.31	388.6	-1,162.8	381.0	341.3	39.69	9.600		
8,400.0	7,606.0	7,763.0	7,611.9	30.9	26.4	89.63	388.6	-1,162.8	343.9	303.4	40.49	8.494		
8,484.5	7,606.0	7,764.6	7,613.5	31.3	26.4	89.91	388.7	-1,162.8	333.4	292.1	41.29	8.075		
8,500.0	7,606.0	7,764.9	7,613.8	31.4	26.4	89.96	388.7	-1,162.8	333.8	292.3	41.44	8.055 SF		
8,600.0	7,606.0	7,766.7	7,615.7	31.9	26.4	90.28	388.7	-1,162.8	352.8	310.3	42.50	8.301		
8,700.0	7,606.0	7,768.6	7,617.5	32.6	26.4	90.61	388.7	-1,162.8	397.0	353.3	43.67	9.090		
8,800.0	7,606.0	7,770.5	7,619.4	33.3	26.4	90.93	388.8	-1,162.8	459.0	414.1	44.93	10.217		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS		Offset Site Error:		0.0 ft
Survey Program: 8140-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation					
Depth	Depth	Depth	Depth														
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor					
100.0	100.0	3.0	3.0	0.2	0.0	71.46	157.7	470.3	496.0	495.9	0.16	3,153.883					
200.0	200.0	103.0	103.0	0.3	0.2	71.46	157.7	470.3	496.0	495.5	0.51	979.655	CC, ES				
300.0	300.0	203.0	203.0	0.5	0.4	-175.57	157.7	470.3	496.9	496.1	0.86	580.960					
400.0	400.0	303.0	303.0	0.7	0.5	-175.59	157.7	470.3	499.5	498.3	1.20	414.864	SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SURVEYS		Offset Site Error:		0.0 ft
Survey Program: 60-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis						
0.0	0.0	3.2	3.2	0.0	0.0	67.78	189.1	462.7	499.9								
100.0	100.0	105.3	105.3	0.2	0.2	67.63	190.1	461.7	499.3	499.0	0.31	1,615.667					
125.7	125.7	128.7	128.7	0.2	0.2	67.57	190.5	461.5	499.3	498.9	0.39	1,264.445 CC, ES					
200.0	200.0	195.9	195.8	0.3	0.3	67.38	192.2	461.3	499.8	499.2	0.64	779.378 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 60-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		
100.0	100.0	105.0	105.0	0.2	0.2	70.04	170.6	469.9	499.9	499.6	0.31	1,627.479		
189.1	189.1	192.1	192.1	0.3	0.3	70.24	168.9	470.2	499.6	499.0	0.61	812.492 CC		
200.0	200.0	201.9	201.9	0.3	0.3	70.27	168.7	470.3	499.6	499.0	0.65	767.345 ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3I-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File/Hwy 52)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3I-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

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

Offset Depths are relative to Offset Datum

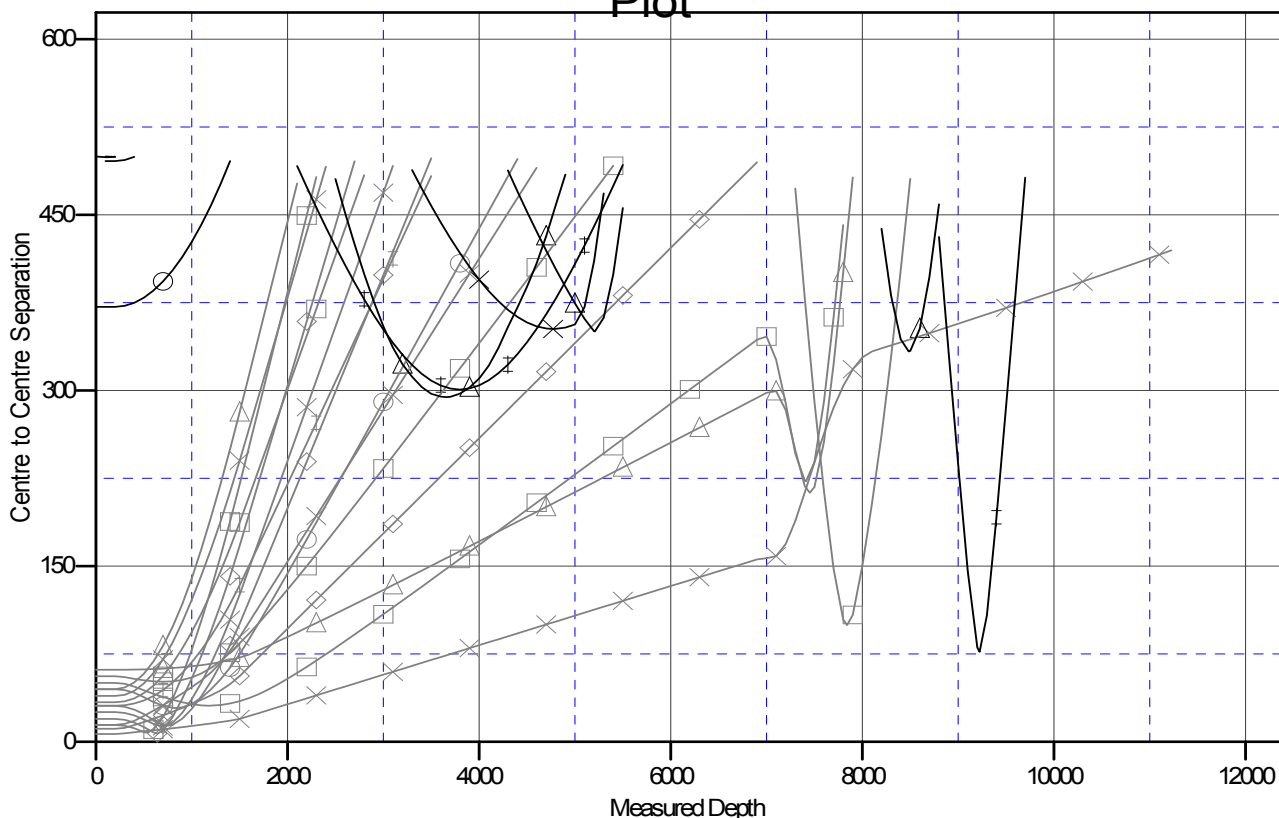
Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

Ladder Plot



LEGEND

1#2 V0	✕ File 3J-32H-K268, Hz, Plan #1 V0	⊙ NELSON 4 (EXISTING), TEXAS TEA
1#1 V0	◆ File 3K-32H-K268, Hz, Plan #1 V0	▲ NELSON 5 TT (EXISTING), TEXAS 1
1#1 V0	✕ File 3L-32H-K268, Hz, Plan #1 V0	✕ NELSON E UNIT 1 (EXISTING), ENC.
1#1 V0	✕ File 3M-32H-K268, Hz, Plan #1 V0	✕ RAY NELSON 0-4-32 (EXISTING), EN
1#1 V0	⊠ File 3N-32H-K268, Hz, Plan #1 V0	▲ RAY NELSON 13-32 (EXISTING), EN
1#1 V0	✕ File 3O-32H-K268, Hz, Plan #1 V0	⊙ RAY NELSON 23-32 (EXISTING), EN
1#1 V0	▲ File 3P-32H-K268, Hz, Plan #1 V0	▲ RAY NELSON 4-4-32 (EXISTING), EN
1#1 V0	✕ NELSON 2 (EXISTING), TEXAS TEA WELL, NOSURVEYS V0	▲ RAY NELSON 4-6-32 (EXISTING), EN

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