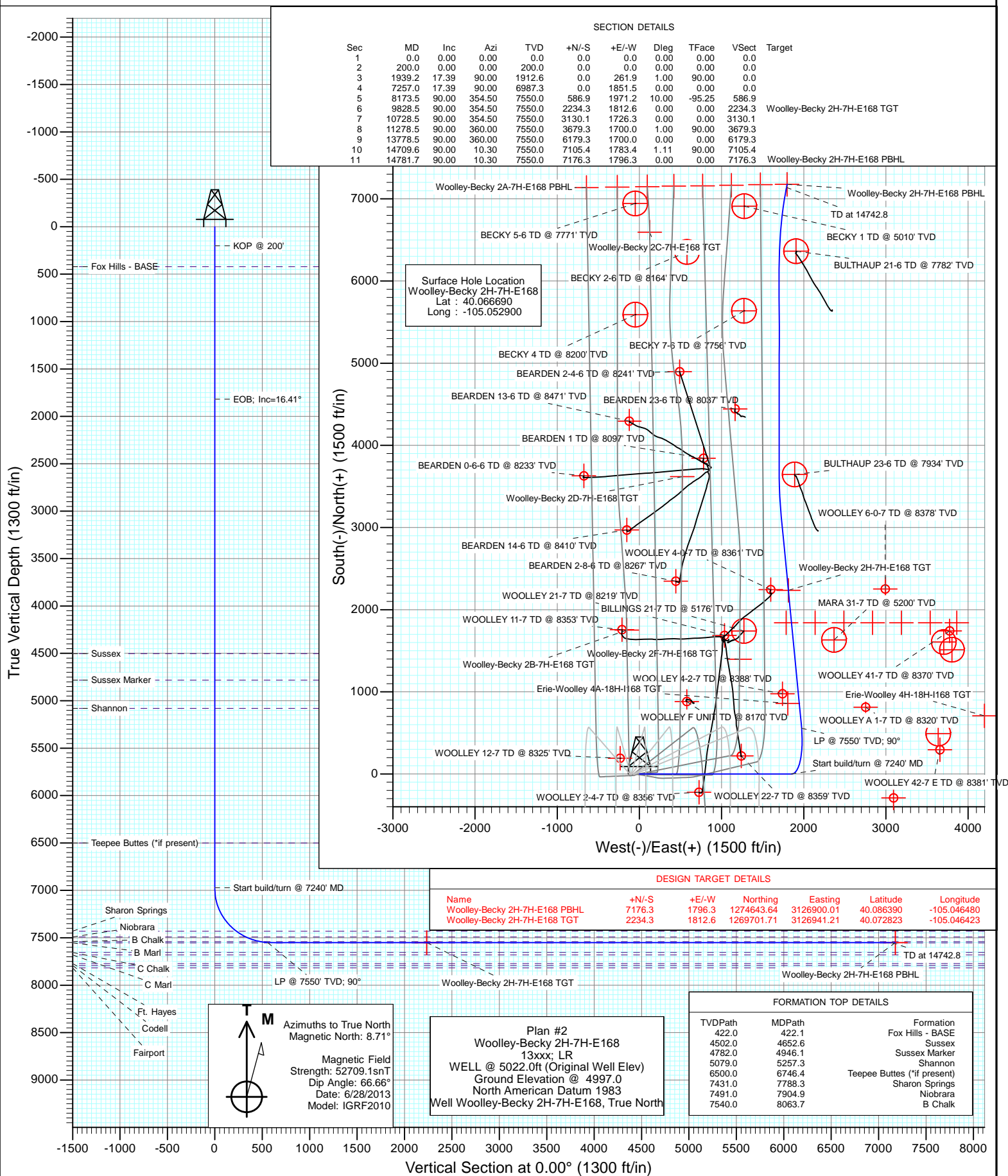




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky)
Well: Woolley-Becky 2H-7H-E168
Wellbore: Hz
Design: Plan #2



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	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		S7-T1N-R68W (Woolley-Sosa/Becky)			
Site Position:		Northing:	1,265,219.42 ft	Latitude:	40.060530
From:	Lat/Long	Easting:	3,126,139.27 ft	Longitude:	-105.049370
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.29 °

Well	Woolley-Becky 2H-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,458.33 ft	Latitude:	40.066690
	+E/-W	0.0 ft	Easting:	3,125,139.90 ft	Longitude:	-105.052900
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,997.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/28/2013	8.71	66.66	52,709

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	
1,939.2	17.39	90.00	1,912.6	0.0	261.9	1.00	1.00	0.00	90.00	
7,257.0	17.39	90.00	6,987.3	0.0	1,851.5	0.00	0.00	0.00	0.00	
8,173.5	90.00	354.50	7,550.0	586.9	1,971.2	10.00	7.92	-10.42	-95.25	
9,828.5	90.00	354.50	7,550.0	2,234.3	1,812.6	0.00	0.00	0.00	0.00	Woolley-Becky 2H-7H
10,728.5	90.00	354.50	7,550.0	3,130.1	1,726.3	0.00	0.00	0.00	0.00	
11,278.5	90.00	360.00	7,550.0	3,679.3	1,700.0	1.00	0.00	1.00	90.00	
13,778.5	90.00	360.00	7,550.0	6,179.3	1,700.0	0.00	0.00	0.00	0.00	
14,709.6	90.00	10.30	7,550.0	7,105.4	1,783.4	1.11	0.00	1.11	90.00	
14,781.7	90.00	10.30	7,550.0	7,176.3	1,796.3	0.00	0.00	0.00	0.00	Woolley-Becky 2H-7H

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	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'
300.0	1.00	90.00	300.0	0.0	0.9	0.0	1.00	1.00	
400.0	2.00	90.00	400.0	0.0	3.5	0.0	1.00	1.00	
422.1	2.22	90.00	422.0	0.0	4.3	0.0	1.00	1.00	Fox Hills - BASE
500.0	3.00	90.00	499.9	0.0	7.9	0.0	1.00	1.00	
600.0	4.00	90.00	599.7	0.0	14.0	0.0	1.00	1.00	
700.0	5.00	90.00	699.4	0.0	21.8	0.0	1.00	1.00	
800.0	6.00	90.00	798.9	0.0	31.4	0.0	1.00	1.00	
900.0	7.00	90.00	898.3	0.0	42.7	0.0	1.00	1.00	
1,000.0	8.00	90.00	997.4	0.0	55.8	0.0	1.00	1.00	
1,100.0	9.00	90.00	1,096.3	0.0	70.5	0.0	1.00	1.00	
1,200.0	10.00	90.00	1,194.9	0.0	87.0	0.0	1.00	1.00	
1,300.0	11.00	90.00	1,293.3	0.0	105.3	0.0	1.00	1.00	
1,400.0	12.00	90.00	1,391.2	0.0	125.2	0.0	1.00	1.00	
1,500.0	13.00	90.00	1,488.9	0.0	146.8	0.0	1.00	1.00	
1,600.0	14.00	90.00	1,586.1	0.0	170.2	0.0	1.00	1.00	
1,700.0	15.00	90.00	1,682.9	0.0	195.2	0.0	1.00	1.00	
1,800.0	16.00	90.00	1,779.3	0.0	222.0	0.0	1.00	1.00	
1,900.0	17.00	90.00	1,875.2	0.0	250.4	0.0	1.00	1.00	
1,939.2	17.39	90.00	1,912.6	0.0	261.9	0.0	1.00	1.00	EOB: Inc=17.39°
2,000.0	17.39	90.00	1,970.6	0.0	280.1	0.0	0.00	0.00	
2,100.0	17.39	90.00	2,066.1	0.0	310.0	0.0	0.00	0.00	
2,200.0	17.39	90.00	2,161.5	0.0	339.9	0.0	0.00	0.00	
2,300.0	17.39	90.00	2,256.9	0.0	369.8	0.0	0.00	0.00	
2,400.0	17.39	90.00	2,352.3	0.0	399.7	0.0	0.00	0.00	
2,500.0	17.39	90.00	2,447.8	0.0	429.6	0.0	0.00	0.00	
2,600.0	17.39	90.00	2,543.2	0.0	459.5	0.0	0.00	0.00	
2,700.0	17.39	90.00	2,638.6	0.0	489.4	0.0	0.00	0.00	
2,800.0	17.39	90.00	2,734.1	0.0	519.2	0.0	0.00	0.00	
2,900.0	17.39	90.00	2,829.5	0.0	549.1	0.0	0.00	0.00	
3,000.0	17.39	90.00	2,924.9	0.0	579.0	0.0	0.00	0.00	
3,100.0	17.39	90.00	3,020.3	0.0	608.9	0.0	0.00	0.00	
3,200.0	17.39	90.00	3,115.8	0.0	638.8	0.0	0.00	0.00	
3,300.0	17.39	90.00	3,211.2	0.0	668.7	0.0	0.00	0.00	
3,400.0	17.39	90.00	3,306.6	0.0	698.6	0.0	0.00	0.00	
3,500.0	17.39	90.00	3,402.1	0.0	728.5	0.0	0.00	0.00	
3,600.0	17.39	90.00	3,497.5	0.0	758.4	0.0	0.00	0.00	
3,700.0	17.39	90.00	3,592.9	0.0	788.3	0.0	0.00	0.00	
3,800.0	17.39	90.00	3,688.3	0.0	818.2	0.0	0.00	0.00	
3,900.0	17.39	90.00	3,783.8	0.0	848.0	0.0	0.00	0.00	
4,000.0	17.39	90.00	3,879.2	0.0	877.9	0.0	0.00	0.00	
4,100.0	17.39	90.00	3,974.6	0.0	907.8	0.0	0.00	0.00	
4,200.0	17.39	90.00	4,070.1	0.0	937.7	0.0	0.00	0.00	
4,300.0	17.39	90.00	4,165.5	0.0	967.6	0.0	0.00	0.00	
4,400.0	17.39	90.00	4,260.9	0.0	997.5	0.0	0.00	0.00	
4,500.0	17.39	90.00	4,356.3	0.0	1,027.4	0.0	0.00	0.00	
4,600.0	17.39	90.00	4,451.8	0.0	1,057.3	0.0	0.00	0.00	
4,652.6	17.39	90.00	4,502.0	0.0	1,073.0	0.0	0.00	0.00	Sussex
4,700.0	17.39	90.00	4,547.2	0.0	1,087.2	0.0	0.00	0.00	
4,800.0	17.39	90.00	4,642.6	0.0	1,117.1	0.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	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
4,900.0	17.39	90.00	4,738.1	0.0	1,147.0	0.0	0.00	0.00	
4,946.1	17.39	90.00	4,782.0	0.0	1,160.7	0.0	0.00	0.00	Sussex Marker
5,000.0	17.39	90.00	4,833.5	0.0	1,176.8	0.0	0.00	0.00	
5,100.0	17.39	90.00	4,928.9	0.0	1,206.7	0.0	0.00	0.00	
5,200.0	17.39	90.00	5,024.3	0.0	1,236.6	0.0	0.00	0.00	
5,257.3	17.39	90.00	5,079.0	0.0	1,253.7	0.0	0.00	0.00	Shannon
5,300.0	17.39	90.00	5,119.8	0.0	1,266.5	0.0	0.00	0.00	
5,400.0	17.39	90.00	5,215.2	0.0	1,296.4	0.0	0.00	0.00	
5,500.0	17.39	90.00	5,310.6	0.0	1,326.3	0.0	0.00	0.00	
5,600.0	17.39	90.00	5,406.0	0.0	1,356.2	0.0	0.00	0.00	
5,700.0	17.39	90.00	5,501.5	0.0	1,386.1	0.0	0.00	0.00	
5,800.0	17.39	90.00	5,596.9	0.0	1,416.0	0.0	0.00	0.00	
5,900.0	17.39	90.00	5,692.3	0.0	1,445.9	0.0	0.00	0.00	
6,000.0	17.39	90.00	5,787.8	0.0	1,475.8	0.0	0.00	0.00	
6,100.0	17.39	90.00	5,883.2	0.0	1,505.6	0.0	0.00	0.00	
6,200.0	17.39	90.00	5,978.6	0.0	1,535.5	0.0	0.00	0.00	
6,300.0	17.39	90.00	6,074.0	0.0	1,565.4	0.0	0.00	0.00	
6,400.0	17.39	90.00	6,169.5	0.0	1,595.3	0.0	0.00	0.00	
6,500.0	17.39	90.00	6,264.9	0.0	1,625.2	0.0	0.00	0.00	
6,600.0	17.39	90.00	6,360.3	0.0	1,655.1	0.0	0.00	0.00	
6,700.0	17.39	90.00	6,455.8	0.0	1,685.0	0.0	0.00	0.00	
6,746.4	17.39	90.00	6,500.0	0.0	1,698.8	0.0	0.00	0.00	Teepee Buttes (*if present)
6,800.0	17.39	90.00	6,551.2	0.0	1,714.9	0.0	0.00	0.00	
6,900.0	17.39	90.00	6,646.6	0.0	1,744.8	0.0	0.00	0.00	
7,000.0	17.39	90.00	6,742.0	0.0	1,774.7	0.0	0.00	0.00	
7,100.0	17.39	90.00	6,837.5	0.0	1,804.6	0.0	0.00	0.00	
7,200.0	17.39	90.00	6,932.9	0.0	1,834.4	0.0	0.00	0.00	
7,257.0	17.39	90.00	6,987.3	0.0	1,851.5	0.0	0.00	0.00	Start build/turn @ 7257' MD
7,300.0	17.51	75.65	7,028.3	1.6	1,864.2	1.6	10.00	0.28	
7,400.0	21.33	47.47	7,122.8	17.7	1,892.2	17.7	10.00	3.82	
7,500.0	28.23	30.00	7,213.7	50.5	1,917.5	50.5	10.00	6.90	
7,600.0	36.51	19.41	7,298.1	99.2	1,939.3	99.2	10.00	8.27	
7,700.0	45.40	12.41	7,373.6	162.2	1,956.9	162.2	10.00	8.90	
7,788.3	53.52	7.83	7,431.0	228.2	1,968.5	228.2	10.00	9.20	Sharon Springs
7,800.0	54.61	7.30	7,437.9	237.6	1,969.7	237.6	10.00	9.30	
7,900.0	63.99	3.25	7,488.9	323.1	1,977.5	323.1	10.00	9.38	
7,904.9	64.45	3.07	7,491.0	327.5	1,977.7	327.5	10.00	9.44	Niobrara
8,000.0	73.46	359.81	7,525.1	416.1	1,979.9	416.1	10.00	9.48	
8,063.7	79.53	357.80	7,540.0	478.0	1,978.6	478.0	10.00	9.52	B Chalk
8,100.0	82.99	356.70	7,545.5	513.8	1,976.9	513.8	10.00	9.54	
8,173.5	90.00	354.50	7,550.0	586.9	1,971.2	586.9	10.00	9.54	LP @ 7550' TVD; 90°
8,200.0	90.00	354.50	7,550.0	613.3	1,968.7	613.3	0.00	0.00	
8,300.0	90.00	354.50	7,550.0	712.8	1,959.1	712.8	0.00	0.00	
8,400.0	90.00	354.50	7,550.0	812.4	1,949.5	812.4	0.00	0.00	
8,500.0	90.00	354.50	7,550.0	911.9	1,939.9	911.9	0.00	0.00	
8,600.0	90.00	354.50	7,550.0	1,011.5	1,930.3	1,011.5	0.00	0.00	
8,700.0	90.00	354.50	7,550.0	1,111.0	1,920.8	1,111.0	0.00	0.00	
8,800.0	90.00	354.50	7,550.0	1,210.5	1,911.2	1,210.5	0.00	0.00	
8,900.0	90.00	354.50	7,550.0	1,310.1	1,901.6	1,310.1	0.00	0.00	
9,000.0	90.00	354.50	7,550.0	1,409.6	1,892.0	1,409.6	0.00	0.00	
9,100.0	90.00	354.50	7,550.0	1,509.2	1,882.4	1,509.2	0.00	0.00	
9,200.0	90.00	354.50	7,550.0	1,608.7	1,872.8	1,608.7	0.00	0.00	

Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	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
9,300.0	90.00	354.50	7,550.0	1,708.2	1,863.3	1,708.2	0.00	0.00	
9,400.0	90.00	354.50	7,550.0	1,807.8	1,853.7	1,807.8	0.00	0.00	
9,500.0	90.00	354.50	7,550.0	1,907.3	1,844.1	1,907.3	0.00	0.00	
9,600.0	90.00	354.50	7,550.0	2,006.9	1,834.5	2,006.9	0.00	0.00	
9,700.0	90.00	354.50	7,550.0	2,106.4	1,824.9	2,106.4	0.00	0.00	
9,800.0	90.00	354.50	7,550.0	2,205.9	1,815.3	2,205.9	0.00	0.00	
9,828.5	90.00	354.50	7,550.0	2,234.3	1,812.6	2,234.3	0.00	0.00	
9,900.0	90.00	354.50	7,550.0	2,305.5	1,805.7	2,305.5	0.00	0.00	
10,000.0	90.00	354.50	7,550.0	2,405.0	1,796.2	2,405.0	0.00	0.00	
10,100.0	90.00	354.50	7,550.0	2,504.6	1,786.6	2,504.6	0.00	0.00	
10,200.0	90.00	354.50	7,550.0	2,604.1	1,777.0	2,604.1	0.00	0.00	
10,300.0	90.00	354.50	7,550.0	2,703.6	1,767.4	2,703.6	0.00	0.00	
10,400.0	90.00	354.50	7,550.0	2,803.2	1,757.8	2,803.2	0.00	0.00	
10,500.0	90.00	354.50	7,550.0	2,902.7	1,748.2	2,902.7	0.00	0.00	
10,600.0	90.00	354.50	7,550.0	3,002.2	1,738.7	3,002.2	0.00	0.00	
10,700.0	90.00	354.50	7,550.0	3,101.8	1,729.1	3,101.8	0.00	0.00	
10,728.5	90.00	354.50	7,550.0	3,130.2	1,726.3	3,130.2	0.00	0.00	Start Turn 1.00
10,800.0	90.00	355.22	7,550.0	3,201.4	1,719.9	3,201.4	1.00	0.00	
10,900.0	90.00	356.22	7,550.0	3,301.1	1,712.5	3,301.1	1.00	0.00	
11,000.0	90.00	357.22	7,550.0	3,400.9	1,706.7	3,400.9	1.00	0.00	
11,100.0	90.00	358.22	7,550.0	3,500.8	1,702.7	3,500.8	1.00	0.00	
11,200.0	90.00	359.22	7,550.0	3,600.8	1,700.5	3,600.8	1.00	0.00	
11,278.5	90.00	360.00	7,550.0	3,679.3	1,700.0	3,679.3	1.00	0.00	End of turn @ 11278' MD
11,300.0	90.00	360.00	7,550.0	3,700.8	1,700.0	3,700.8	0.00	0.00	
11,400.0	90.00	360.00	7,550.0	3,800.8	1,700.0	3,800.8	0.00	0.00	
11,500.0	90.00	360.00	7,550.0	3,900.8	1,700.0	3,900.8	0.00	0.00	
11,600.0	90.00	360.00	7,550.0	4,000.8	1,700.0	4,000.8	0.00	0.00	
11,700.0	90.00	360.00	7,550.0	4,100.8	1,700.0	4,100.8	0.00	0.00	
11,800.0	90.00	360.00	7,550.0	4,200.8	1,700.0	4,200.8	0.00	0.00	
11,900.0	90.00	360.00	7,550.0	4,300.8	1,700.0	4,300.8	0.00	0.00	
12,000.0	90.00	360.00	7,550.0	4,400.8	1,700.0	4,400.8	0.00	0.00	
12,100.0	90.00	360.00	7,550.0	4,500.8	1,700.0	4,500.8	0.00	0.00	
12,200.0	90.00	360.00	7,550.0	4,600.8	1,700.0	4,600.8	0.00	0.00	
12,300.0	90.00	360.00	7,550.0	4,700.8	1,700.0	4,700.8	0.00	0.00	
12,400.0	90.00	360.00	7,550.0	4,800.8	1,700.0	4,800.8	0.00	0.00	
12,500.0	90.00	360.00	7,550.0	4,900.8	1,700.0	4,900.8	0.00	0.00	
12,600.0	90.00	360.00	7,550.0	5,000.8	1,700.0	5,000.8	0.00	0.00	
12,700.0	90.00	360.00	7,550.0	5,100.8	1,700.0	5,100.8	0.00	0.00	
12,800.0	90.00	360.00	7,550.0	5,200.8	1,700.0	5,200.8	0.00	0.00	
12,900.0	90.00	360.00	7,550.0	5,300.8	1,700.0	5,300.8	0.00	0.00	
13,000.0	90.00	360.00	7,550.0	5,400.8	1,700.0	5,400.8	0.00	0.00	
13,100.0	90.00	360.00	7,550.0	5,500.8	1,700.0	5,500.8	0.00	0.00	
13,200.0	90.00	360.00	7,550.0	5,600.8	1,700.0	5,600.8	0.00	0.00	
13,300.0	90.00	360.00	7,550.0	5,700.8	1,700.0	5,700.8	0.00	0.00	
13,400.0	90.00	360.00	7,550.0	5,800.8	1,700.0	5,800.8	0.00	0.00	
13,500.0	90.00	360.00	7,550.0	5,900.8	1,700.0	5,900.8	0.00	0.00	
13,600.0	90.00	360.00	7,550.0	6,000.8	1,700.0	6,000.8	0.00	0.00	
13,700.0	90.00	360.00	7,550.0	6,100.8	1,700.0	6,100.8	0.00	0.00	
13,778.5	90.00	360.00	7,550.0	6,179.3	1,700.0	6,179.3	0.00	0.00	Start turn @ 13778' MD
13,800.0	90.00	0.24	7,550.0	6,200.8	1,700.0	6,200.8	1.11	0.00	
13,900.0	90.00	1.34	7,550.0	6,300.8	1,701.4	6,300.8	1.11	0.00	
14,000.0	90.00	2.45	7,550.0	6,400.7	1,704.7	6,400.7	1.11	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2H-7H-E168	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
14,100.0	90.00	3.56	7,550.0	6,500.6	1,709.9	6,500.6	1.11	0.00	
14,200.0	90.00	4.66	7,550.0	6,600.3	1,717.1	6,600.3	1.11	0.00	
14,300.0	90.00	5.77	7,550.0	6,699.9	1,726.2	6,699.9	1.11	0.00	
14,400.0	90.00	6.87	7,550.0	6,799.3	1,737.2	6,799.3	1.11	0.00	
14,500.0	90.00	7.98	7,550.0	6,898.5	1,750.1	6,898.5	1.11	0.00	
14,600.0	90.00	9.09	7,550.0	6,997.4	1,765.0	6,997.4	1.11	0.00	
14,700.0	90.00	10.19	7,550.0	7,096.0	1,781.7	7,096.0	1.11	0.00	
14,709.6	90.00	10.30	7,550.0	7,105.4	1,783.4	7,105.4	1.11	0.00	End of turn @ 14709' MD
14,781.7	90.00	10.30	7,550.0	7,176.3	1,796.3	7,176.3	0.00	0.00	TD at 14781.7

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Woolley-Becky 2H-7H-E - plan hits target center - Point	0.00	0.00	7,550.0	2,234.3	1,812.6	1,269,701.71	3,126,941.21	40.072823	-105.046423
Woolley-Becky 2H-7H-E - plan hits target center - Point	0.00	0.00	7,550.0	7,176.3	1,796.3	1,274,643.64	3,126,900.01	40.086390	-105.046480

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
422.1	422.0	Fox Hills - BASE			
4,652.6	4,502.0	Sussex			
4,946.1	4,782.0	Sussex Marker			
5,257.3	5,079.0	Shannon			
6,746.4	6,500.0	Teepee Buttes (*if present)			
7,788.3	7,431.0	Sharon Springs			
7,904.9	7,491.0	Niobrara			
8,063.7	7,540.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
200.0	200.0	0.0	0.0	KOP @ 200'
1,939.2	1,912.6	0.0	261.9	EOB: Inc=17.39°
7,257.0	6,987.3	0.0	1,851.5	Start build/turn @ 7257' MD
8,173.5	7,550.0	586.9	1,971.2	LP @ 7550' TVD; 90°
10,728.5	7,550.0	2,234.3	1,812.6	Start Turn 1.00
11,278.5	7,550.0	3,130.1	1,726.3	End of turn @ 11278' MD
13,778.5	7,550.0	3,679.3	1,700.0	Start turn @ 13778' MD
14,709.6	7,550.0	6,179.3	1,700.0	End of turn @ 14709' MD
14,781.7	7,550.0	7,105.4	1,783.4	TD at 14781.7

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S7-T1N-R68W (Woolley-Sosa/Becky)

Woolley-Becky 2H-7H-E168

Hz

Plan #2

Anticollision Report

24 July, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-7H-E168	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:	14,950.0 to 9,999,999.0ft	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	7/24/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,781.7	Plan #2 (Hz)	Geolink MWD	Geolink MWD

Summary						
Site Name	Reference Measured Depth	Offset Measured Depth	Distance Between Centres	Distance Between Ellipses	Separation Factor	Warning
Offset Well - Wellbore - Design	()	()	()	()		
- -						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2H-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5022.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5022.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2H-7H-E168	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 @ 5022.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Woolley-Becky 2H-7H-E168
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.29°

