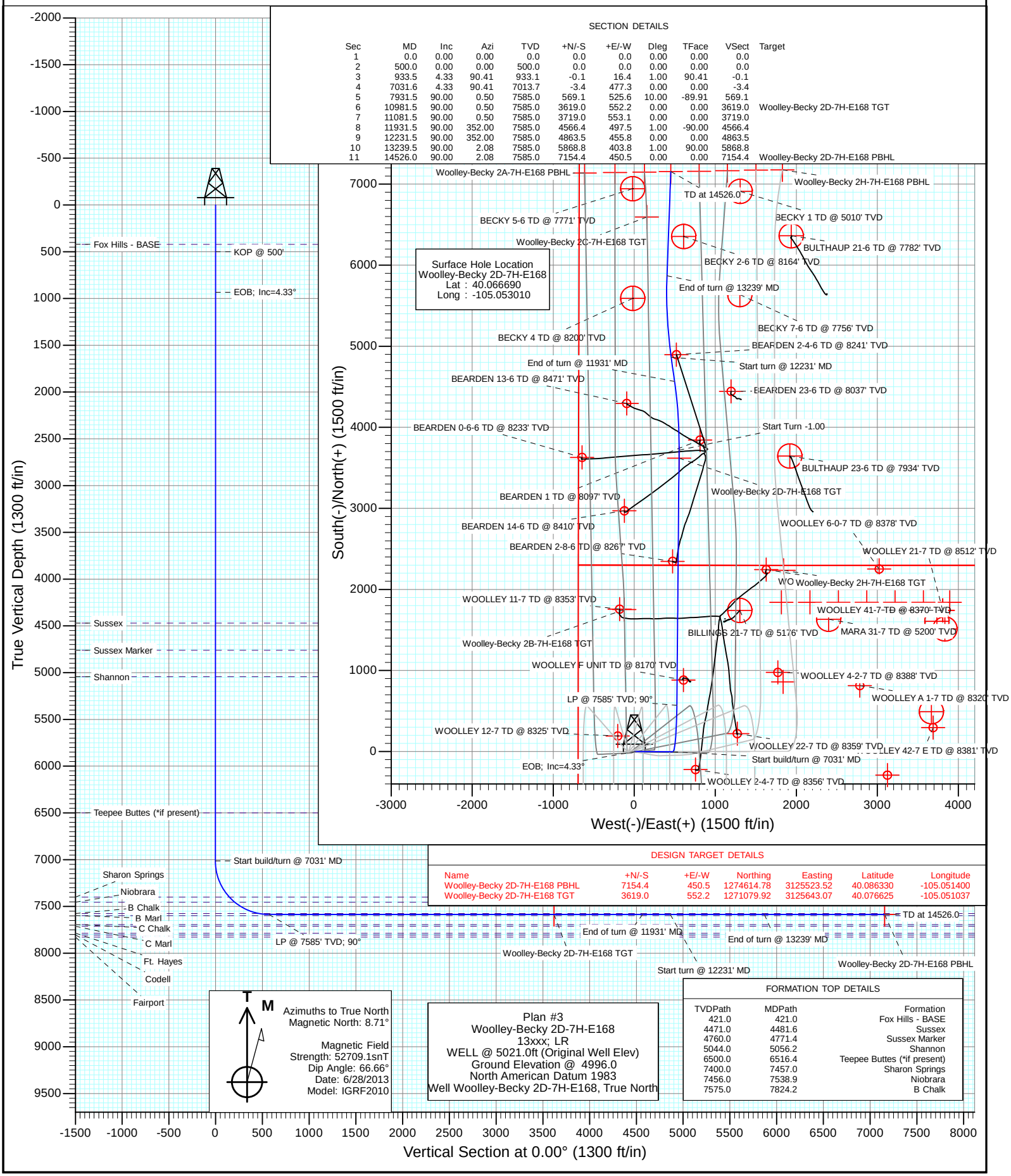
encana natural gas

Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky)
Well: Woolley-Becky 2D-7H-E168
Wellbore: Hz
Design: Plan #3

CATHEDRAL

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	933.5	4.33	90.41	933.1	-0.1	16.4	1.00	90.41	-0.1	
4	7031.6	4.33	90.41	7013.7	-3.4	477.3	0.00	0.00	-3.4	
5	7931.5	90.00	0.50	7585.0	569.1	525.6	10.00	-89.91	569.1	
6	10981.5	90.00	0.50	7585.0	3619.0	552.2	0.00	0.00	3619.0	Woolley-Becky 2D-7H-E168 TGT
7	11081.5	90.00	0.50	7585.0	3719.0	553.1	0.00	0.00	3719.0	
8	11931.5	90.00	352.00	7585.0	4566.4	497.5	1.00	-90.00	4566.4	
9	12231.5	90.00	352.00	7585.0	4863.5	455.8	0.00	0.00	4863.5	
10	13239.5	90.00	2.08	7585.0	5868.8	403.8	1.00	90.00	5868.8	
11	14526.0	90.00	2.08	7585.0	7154.4	450.5	0.00	0.00	7154.4	Woolley-Becky 2D-7H-E168 PBHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Woolley-Becky 2D-7H-E168 PBHL	7154.4	450.5	1274614.78	3125523.52	40.086330	-105.051400
Woolley-Becky 2D-7H-E168 TGT	3619.0	552.2	1271079.92	3125643.07	40.076625	-105.051037

T M

Azimuths to True North
Magnetic North: 8.71°

Magnetic Field
Strength: 52709.1snT
Dip Angle: 66.66°
Date: 6/28/2013
Model: IGRF2010

Plan #3
Woolley-Becky 2D-7H-E168
13xxx; LR
WELL @ 5021.0ft (Original Well Elev)
Ground Elevation @ 4996.0
North American Datum 1983
Well Woolley-Becky 2D-7H-E168, True North

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
421.0	421.0	Fox Hills - BASE
4471.0	4481.6	Sussex
4760.0	4771.4	Sussex Marker
5044.0	5056.2	Shannon
6500.0	6516.4	Teepee Buttes (*if present)
7400.0	7457.0	Sharon Springs
7456.0	7538.9	Niobrara
7575.0	7824.2	B Chalk

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Project:	DJ Wattenberg	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**North Reference:**	True
Well:	Woolley-Becky 2D-7H-E168	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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 2D-7H-E168

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,267,458.17 ft	**Latitude:**	40.066690
	+E/-W	0.0 ft	**Easting:**	3,125,109.12 ft	**Longitude:**	-105.053010
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,996.0 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 #3

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
933.5	4.33	90.41	933.1	-0.1	16.4	1.00	1.00	0.00	90.41	
7,031.6	4.33	90.41	7,013.7	-3.4	477.3	0.00	0.00	0.00	0.00	
7,931.5	90.00	0.50	7,585.0	569.1	525.6	10.00	9.52	-9.99	-89.91	
10,981.5	90.00	0.50	7,585.0	3,619.0	552.2	0.00	0.00	0.00	0.00	Woolley-Becky 2D-7H
11,081.5	90.00	0.50	7,585.0	3,719.0	553.1	0.00	0.00	0.00	0.00	
11,931.5	90.00	352.00	7,585.0	4,566.4	497.5	1.00	0.00	-1.00	-90.00	
12,231.5	90.00	352.00	7,585.0	4,863.5	455.8	0.00	0.00	0.00	0.00	
13,239.5	90.00	2.08	7,585.0	5,868.8	403.8	1.00	0.00	1.00	90.00	
14,526.0	90.00	2.08	7,585.0	7,154.4	450.5	0.00	0.00	0.00	0.00	Woolley-Becky 2D-7H

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Project:	DJ Wattenberg	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**North Reference:**	True
Well:	Woolley-Becky 2D-7H-E168	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
421.0	0.00	0.00	421.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	90.41	600.0	0.0	0.9	0.0	1.00	1.00	
700.0	2.00	90.41	700.0	0.0	3.5	0.0	1.00	1.00	
800.0	3.00	90.41	799.9	-0.1	7.9	-0.1	1.00	1.00	
900.0	4.00	90.41	899.7	-0.1	14.0	-0.1	1.00	1.00	
933.5	4.33	90.41	933.1	-0.1	16.4	-0.1	1.00	1.00	EOB; Inc=4.33°
1,000.0	4.33	90.41	999.4	-0.2	21.4	-0.2	0.00	0.00	
1,100.0	4.33	90.41	1,099.1	-0.2	29.0	-0.2	0.00	0.00	
1,200.0	4.33	90.41	1,198.8	-0.3	36.5	-0.3	0.00	0.00	
1,300.0	4.33	90.41	1,298.5	-0.3	44.1	-0.3	0.00	0.00	
1,400.0	4.33	90.41	1,398.3	-0.4	51.6	-0.4	0.00	0.00	
1,500.0	4.33	90.41	1,498.0	-0.4	59.2	-0.4	0.00	0.00	
1,600.0	4.33	90.41	1,597.7	-0.5	66.8	-0.5	0.00	0.00	
1,700.0	4.33	90.41	1,697.4	-0.5	74.3	-0.5	0.00	0.00	
1,800.0	4.33	90.41	1,797.1	-0.6	81.9	-0.6	0.00	0.00	
1,900.0	4.33	90.41	1,896.8	-0.6	89.4	-0.6	0.00	0.00	
2,000.0	4.33	90.41	1,996.5	-0.7	97.0	-0.7	0.00	0.00	
2,100.0	4.33	90.41	2,096.2	-0.8	104.6	-0.8	0.00	0.00	
2,200.0	4.33	90.41	2,196.0	-0.8	112.1	-0.8	0.00	0.00	
2,300.0	4.33	90.41	2,295.7	-0.9	119.7	-0.9	0.00	0.00	
2,400.0	4.33	90.41	2,395.4	-0.9	127.2	-0.9	0.00	0.00	
2,500.0	4.33	90.41	2,495.1	-1.0	134.8	-1.0	0.00	0.00	
2,600.0	4.33	90.41	2,594.8	-1.0	142.3	-1.0	0.00	0.00	
2,700.0	4.33	90.41	2,694.5	-1.1	149.9	-1.1	0.00	0.00	
2,800.0	4.33	90.41	2,794.2	-1.1	157.5	-1.1	0.00	0.00	
2,900.0	4.33	90.41	2,894.0	-1.2	165.0	-1.2	0.00	0.00	
3,000.0	4.33	90.41	2,993.7	-1.2	172.6	-1.2	0.00	0.00	
3,100.0	4.33	90.41	3,093.4	-1.3	180.1	-1.3	0.00	0.00	
3,200.0	4.33	90.41	3,193.1	-1.3	187.7	-1.3	0.00	0.00	
3,300.0	4.33	90.41	3,292.8	-1.4	195.3	-1.4	0.00	0.00	
3,400.0	4.33	90.41	3,392.5	-1.5	202.8	-1.5	0.00	0.00	
3,500.0	4.33	90.41	3,492.2	-1.5	210.4	-1.5	0.00	0.00	
3,600.0	4.33	90.41	3,592.0	-1.6	217.9	-1.6	0.00	0.00	
3,700.0	4.33	90.41	3,691.7	-1.6	225.5	-1.6	0.00	0.00	
3,800.0	4.33	90.41	3,791.4	-1.7	233.0	-1.7	0.00	0.00	
3,900.0	4.33	90.41	3,891.1	-1.7	240.6	-1.7	0.00	0.00	
4,000.0	4.33	90.41	3,990.8	-1.8	248.2	-1.8	0.00	0.00	
4,100.0	4.33	90.41	4,090.5	-1.8	255.7	-1.8	0.00	0.00	
4,200.0	4.33	90.41	4,190.2	-1.9	263.3	-1.9	0.00	0.00	
4,300.0	4.33	90.41	4,290.0	-1.9	270.8	-1.9	0.00	0.00	
4,400.0	4.33	90.41	4,389.7	-2.0	278.4	-2.0	0.00	0.00	
4,481.6	4.33	90.41	4,471.0	-2.0	284.6	-2.0	0.00	0.00	Sussex
4,500.0	4.33	90.41	4,489.4	-2.1	285.9	-2.1	0.00	0.00	
4,600.0	4.33	90.41	4,589.1	-2.1	293.5	-2.1	0.00	0.00	
4,700.0	4.33	90.41	4,688.8	-2.2	301.1	-2.2	0.00	0.00	
4,771.4	4.33	90.41	4,760.0	-2.2	306.5	-2.2	0.00	0.00	Sussex Marker

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Project:	DJ Wattenberg	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**North Reference:**	True
Well:	Woolley-Becky 2D-7H-E168	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	4.33	90.41	4,788.5	-2.2	308.6	-2.2	0.00	0.00	
4,900.0	4.33	90.41	4,888.2	-2.3	316.2	-2.3	0.00	0.00	
5,000.0	4.33	90.41	4,988.0	-2.3	323.7	-2.3	0.00	0.00	
5,056.2	4.33	90.41	5,044.0	-2.4	328.0	-2.4	0.00	0.00	Shannon
5,100.0	4.33	90.41	5,087.7	-2.4	331.3	-2.4	0.00	0.00	
5,200.0	4.33	90.41	5,187.4	-2.4	338.9	-2.4	0.00	0.00	
5,300.0	4.33	90.41	5,287.1	-2.5	346.4	-2.5	0.00	0.00	
5,400.0	4.33	90.41	5,386.8	-2.5	354.0	-2.5	0.00	0.00	
5,500.0	4.33	90.41	5,486.5	-2.6	361.5	-2.6	0.00	0.00	
5,600.0	4.33	90.41	5,586.2	-2.7	369.1	-2.7	0.00	0.00	
5,700.0	4.33	90.41	5,686.0	-2.7	376.6	-2.7	0.00	0.00	
5,800.0	4.33	90.41	5,785.7	-2.8	384.2	-2.8	0.00	0.00	
5,900.0	4.33	90.41	5,885.4	-2.8	391.8	-2.8	0.00	0.00	
6,000.0	4.33	90.41	5,985.1	-2.9	399.3	-2.9	0.00	0.00	
6,100.0	4.33	90.41	6,084.8	-2.9	406.9	-2.9	0.00	0.00	
6,200.0	4.33	90.41	6,184.5	-3.0	414.4	-3.0	0.00	0.00	
6,300.0	4.33	90.41	6,284.2	-3.0	422.0	-3.0	0.00	0.00	
6,400.0	4.33	90.41	6,384.0	-3.1	429.5	-3.1	0.00	0.00	
6,500.0	4.33	90.41	6,483.7	-3.1	437.1	-3.1	0.00	0.00	
6,516.4	4.33	90.41	6,500.0	-3.2	438.3	-3.2	0.00	0.00	Teepee Buttes (*if present)
6,600.0	4.33	90.41	6,583.4	-3.2	444.7	-3.2	0.00	0.00	
6,700.0	4.33	90.41	6,683.1	-3.3	452.2	-3.3	0.00	0.00	
6,800.0	4.33	90.41	6,782.8	-3.3	459.8	-3.3	0.00	0.00	
6,900.0	4.33	90.41	6,882.5	-3.4	467.3	-3.4	0.00	0.00	
7,000.0	4.33	90.41	6,982.2	-3.4	474.9	-3.4	0.00	0.00	
7,031.6	4.33	90.41	7,013.7	-3.4	477.3	-3.4	0.00	0.00	Start build/turn @ 7031' MD
7,100.0	8.10	32.69	7,081.8	0.6	482.5	0.6	10.00	5.50	
7,200.0	17.38	14.52	7,179.3	21.0	490.0	21.0	10.00	9.28	
7,300.0	27.17	8.99	7,271.7	58.1	497.4	58.1	10.00	9.79	
7,400.0	37.06	6.26	7,356.3	110.8	504.2	110.8	10.00	9.90	
7,457.0	42.72	5.21	7,400.0	147.2	507.9	147.2	10.00	9.93	Sharon Springs
7,500.0	47.00	4.55	7,430.5	177.4	510.5	177.4	10.00	9.94	
7,538.9	50.87	4.04	7,456.0	206.6	512.6	206.6	10.00	9.95	Niobrara
7,600.0	56.95	3.33	7,492.0	255.9	515.8	255.9	10.00	9.96	
7,700.0	66.92	2.35	7,539.0	343.9	520.1	343.9	10.00	9.96	
7,800.0	76.88	1.51	7,570.0	438.8	523.3	438.8	10.00	9.97	
7,824.2	79.30	1.32	7,575.0	462.4	523.9	462.4	10.00	9.97	B Chalk
7,900.0	86.86	0.74	7,584.1	537.6	525.2	537.6	10.00	9.97	
7,931.5	90.00	0.50	7,585.0	569.1	525.6	569.1	10.00	9.97	LP @ 7585' TVD; 90°
8,000.0	90.00	0.50	7,585.0	637.6	526.2	637.6	0.00	0.00	
8,100.0	90.00	0.50	7,585.0	737.6	527.1	737.6	0.00	0.00	
8,200.0	90.00	0.50	7,585.0	837.6	527.9	837.6	0.00	0.00	
8,300.0	90.00	0.50	7,585.0	937.6	528.8	937.6	0.00	0.00	
8,400.0	90.00	0.50	7,585.0	1,037.6	529.7	1,037.6	0.00	0.00	
8,500.0	90.00	0.50	7,585.0	1,137.6	530.5	1,137.6	0.00	0.00	
8,600.0	90.00	0.50	7,585.0	1,237.6	531.4	1,237.6	0.00	0.00	
8,700.0	90.00	0.50	7,585.0	1,337.6	532.3	1,337.6	0.00	0.00	
8,800.0	90.00	0.50	7,585.0	1,437.6	533.2	1,437.6	0.00	0.00	
8,900.0	90.00	0.50	7,585.0	1,537.6	534.0	1,537.6	0.00	0.00	
9,000.0	90.00	0.50	7,585.0	1,637.5	534.9	1,637.5	0.00	0.00	
9,100.0	90.00	0.50	7,585.0	1,737.5	535.8	1,737.5	0.00	0.00	
9,200.0	90.00	0.50	7,585.0	1,837.5	536.7	1,837.5	0.00	0.00	

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Project:	DJ Wattenberg	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**North Reference:**	True
Well:	Woolley-Becky 2D-7H-E168	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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	0.50	7,585.0	1,937.5	537.5	1,937.5	0.00	0.00	
9,400.0	90.00	0.50	7,585.0	2,037.5	538.4	2,037.5	0.00	0.00	
9,500.0	90.00	0.50	7,585.0	2,137.5	539.3	2,137.5	0.00	0.00	
9,600.0	90.00	0.50	7,585.0	2,237.5	540.1	2,237.5	0.00	0.00	
9,700.0	90.00	0.50	7,585.0	2,337.5	541.0	2,337.5	0.00	0.00	
9,800.0	90.00	0.50	7,585.0	2,437.5	541.9	2,437.5	0.00	0.00	
9,900.0	90.00	0.50	7,585.0	2,537.5	542.8	2,537.5	0.00	0.00	
10,000.0	90.00	0.50	7,585.0	2,637.5	543.6	2,637.5	0.00	0.00	
10,100.0	90.00	0.50	7,585.0	2,737.5	544.5	2,737.5	0.00	0.00	
10,200.0	90.00	0.50	7,585.0	2,837.5	545.4	2,837.5	0.00	0.00	
10,300.0	90.00	0.50	7,585.0	2,937.5	546.3	2,937.5	0.00	0.00	
10,400.0	90.00	0.50	7,585.0	3,037.5	547.1	3,037.5	0.00	0.00	
10,500.0	90.00	0.50	7,585.0	3,137.5	548.0	3,137.5	0.00	0.00	
10,600.0	90.00	0.50	7,585.0	3,237.5	548.9	3,237.5	0.00	0.00	
10,700.0	90.00	0.50	7,585.0	3,337.5	549.7	3,337.5	0.00	0.00	
10,800.0	90.00	0.50	7,585.0	3,437.5	550.6	3,437.5	0.00	0.00	
10,900.0	90.00	0.50	7,585.0	3,537.5	551.5	3,537.5	0.00	0.00	
10,981.5	90.00	0.50	7,585.0	3,619.0	552.2	3,619.0	0.00	0.00	Woolley-Becky 2D-7H-E168 TGT
11,000.0	90.00	0.50	7,585.0	3,637.5	552.4	3,637.5	0.00	0.00	
11,081.5	90.00	0.50	7,585.0	3,719.0	553.1	3,719.0	0.00	0.00	Start Turn -1.00
11,100.0	90.00	0.32	7,585.0	3,737.5	553.2	3,737.5	1.00	0.00	
11,200.0	90.00	359.32	7,585.0	3,837.5	552.9	3,837.5	1.00	0.00	
11,300.0	90.00	358.32	7,585.0	3,937.4	550.8	3,937.4	1.00	0.00	
11,400.0	90.00	357.32	7,585.0	4,037.4	547.0	4,037.4	1.00	0.00	
11,500.0	90.00	356.32	7,585.0	4,137.2	541.4	4,137.2	1.00	0.00	
11,600.0	90.00	355.32	7,585.0	4,236.9	534.2	4,236.9	1.00	0.00	
11,700.0	90.00	354.32	7,585.0	4,336.5	525.1	4,336.5	1.00	0.00	
11,800.0	90.00	353.32	7,585.0	4,436.0	514.3	4,436.0	1.00	0.00	
11,900.0	90.00	352.32	7,585.0	4,535.2	501.8	4,535.2	1.00	0.00	
11,931.5	90.00	352.00	7,585.0	4,566.4	497.5	4,566.4	1.00	0.00	End of turn @ 11931' MD
12,000.0	90.00	352.00	7,585.0	4,634.2	488.0	4,634.2	0.00	0.00	
12,100.0	90.00	352.00	7,585.0	4,733.2	474.1	4,733.2	0.00	0.00	
12,200.0	90.00	352.00	7,585.0	4,832.3	460.2	4,832.3	0.00	0.00	
12,231.5	90.00	352.00	7,585.0	4,863.5	455.8	4,863.5	0.00	0.00	Start turn @ 12231' MD
12,300.0	90.00	352.68	7,585.0	4,931.3	446.7	4,931.3	1.00	0.00	
12,400.0	90.00	353.68	7,585.0	5,030.6	434.8	5,030.6	1.00	0.00	
12,500.0	90.00	354.68	7,585.0	5,130.1	424.7	5,130.1	1.00	0.00	
12,600.0	90.00	355.68	7,585.0	5,229.8	416.3	5,229.8	1.00	0.00	
12,700.0	90.00	356.68	7,585.0	5,329.5	409.6	5,329.5	1.00	0.00	
12,800.0	90.00	357.68	7,585.0	5,429.4	404.7	5,429.4	1.00	0.00	
12,900.0	90.00	358.68	7,585.0	5,529.4	401.5	5,529.4	1.00	0.00	
13,000.0	90.00	359.68	7,585.0	5,629.4	400.1	5,629.4	1.00	0.00	
13,100.0	90.00	0.68	7,585.0	5,729.4	400.4	5,729.4	1.00	0.00	
13,200.0	90.00	1.68	7,585.0	5,829.3	402.5	5,829.3	1.00	0.00	
13,239.5	90.00	2.08	7,585.0	5,868.8	403.8	5,868.8	1.00	0.00	End of turn @ 13239' MD
13,300.0	90.00	2.08	7,585.0	5,929.3	406.0	5,929.3	0.00	0.00	
13,400.0	90.00	2.08	7,585.0	6,029.2	409.6	6,029.2	0.00	0.00	
13,500.0	90.00	2.08	7,585.0	6,129.1	413.2	6,129.1	0.00	0.00	
13,600.0	90.00	2.08	7,585.0	6,229.1	416.9	6,229.1	0.00	0.00	
13,700.0	90.00	2.08	7,585.0	6,329.0	420.5	6,329.0	0.00	0.00	
13,800.0	90.00	2.08	7,585.0	6,428.9	424.1	6,428.9	0.00	0.00	
13,900.0	90.00	2.08	7,585.0	6,528.9	427.8	6,528.9	0.00	0.00	

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Project:	DJ Wattenberg	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**North Reference:**	True
Well:	Woolley-Becky 2D-7H-E168	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,000.0	90.00	2.08	7,585.0	6,628.8	431.4	6,628.8	0.00	0.00	
14,100.0	90.00	2.08	7,585.0	6,728.7	435.0	6,728.7	0.00	0.00	
14,200.0	90.00	2.08	7,585.0	6,828.7	438.6	6,828.7	0.00	0.00	
14,300.0	90.00	2.08	7,585.0	6,928.6	442.3	6,928.6	0.00	0.00	
14,400.0	90.00	2.08	7,585.0	7,028.5	445.9	7,028.5	0.00	0.00	
14,500.0	90.00	2.08	7,585.0	7,128.5	449.5	7,128.5	0.00	0.00	
14,526.0	90.00	2.08	7,585.0	7,154.4	450.5	7,154.4	0.00	0.00	TD at 14526.0 - Woolley-Becky 2D-7H-E168 PE

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 2D-7H-E - plan hits target center - Point	0.00	0.00	7,585.0	3,619.0	552.2	1,271,079.92	3,125,643.07	40.076625	-105.051037
Woolley-Becky 2D-7H-E - plan hits target center - Point	0.00	0.00	7,585.0	7,154.4	450.5	1,274,614.78	3,125,523.52	40.086330	-105.051400

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
421.0	421.0	Fox Hills - BASE			
4,481.6	4,471.0	Sussex			
4,771.4	4,760.0	Sussex Marker			
5,056.2	5,044.0	Shannon			
6,516.4	6,500.0	Teepee Buttes (*if present)			
7,457.0	7,400.0	Sharon Springs			
7,538.9	7,456.0	Niobrara			
7,824.2	7,575.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
500.0	500.0	0.0	0.0	KOP @ 500'
933.5	933.1	-0.1	16.4	EOB; Inc=4.33°
7,031.6	7,013.7	-3.4	477.3	Start build/turn @ 7031' MD
7,931.5	7,585.0	569.1	525.6	LP @ 7585' TVD; 90°
11,081.5	7,585.0	3,619.0	552.2	Start Turn -1.00
11,931.5	7,585.0	3,719.0	553.1	End of turn @ 11931' MD
12,231.5	7,585.0	4,566.4	497.5	Start turn @ 12231' MD
13,239.5	7,585.0	4,863.5	455.8	End of turn @ 13239' MD
14,526.0	7,585.0	5,868.8	403.8	TD at 14526.0

EnCana Oil & Gas (USA) Inc

DJ Wattenberg
S7-T1N-R68W (Woolley-Sosa/Becky)
Woolley-Becky 2D-7H-E168
Hz
Plan #3

Anticollision Report

22 July, 2013

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Reference	Plan #3

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** 7/22/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,526.0	Plan #3 (Hz)	Geolink MWD	Geolink MWD

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S7-T1N-R68W (Woolley-Sosa/Becky)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,193.7	7,541.9	256.4	173.1	3.078	CC
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,200.0	7,542.0	256.5	173.1	3.076	ES, SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO						Out of range
BEARDEN 24-6 (EXISTING) - ENCANA WELL - PLAN O						Out of range
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,254.8	7,681.5	68.4	-43.3	0.612	Level 1, CC, ES, SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,699.4	7,746.8	63.6	-7.9	0.889	Level 1, CC
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,700.0	7,746.8	63.6	-7.9	0.889	Level 1, ES, SF
BECKY 1 (EXISTING) - FOUNDATION WELL - NO SUR						Out of range
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,731.2	7,524.0	188.7	61.4	1.482	Level 3, CC, ES, SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	12,966.0	7,528.0	419.4	305.7	3.687	CC, ES
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,000.0	7,528.0	420.9	306.5	3.679	SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,297.7	7,519.0	462.1	324.8	3.367	CC
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,300.0	7,519.0	462.1	324.8	3.366	ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS						Out of range
BILLINGS 21-7 (EXISTING) - KPK WELL - SURVEYS						Out of range
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
Sosa 11-18 - DD - DD						Out of range
Sosa 11-18 - DD - Plan #1						Out of range
Sosa 12-18 - DD - DD						Out of range
Sosa 12-18 - DD - Plan #3						Out of range
Sosa 21-18 - DD (Gyro) - DD						Out of range
Sosa 21-18 - DD (MWD) - DD						Out of range
Sosa 21-18 - DD (MWD) - Plan #2						Out of range
Sosa 22-18 - DD - DD						Out of range
Sosa 22-18 - DD - Plan #2						Out of range
SOSA A UNIT 1 (EXISTING) - EXISTING - EXISTING						Out of range
THOMAS 14-7(EXISTING) - EXISTING - NO SURVEY						Out of range
THOMAS 24-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
THOMAS 24-7 (Existing) - Existing - NO SURVEYS						Out of range
THOMAS 2-8-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
THOMAS 33-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Thomas 7-12 (Existing) - Existing - NO SURVEYS						Out of range
Thomas 7-14 (Existing) - Existing - NO SURVEYS						Out of range
THOMAS E UNIT 1 (EXISTING) - Existing - NO SURVEY						Out of range
THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURV						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	500.0	574.0	280.1	278.2	152.949	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	4,100.0	4,164.5	499.2	484.6	34.239	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU						Out of range
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,100.0	7,505.2	367.5	322.6	8.177	CC, ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,250.5	7,608.4	70.8	36.1	2.037	CC, ES, SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #1	200.0	199.0	15.8	15.2	25.901	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #1	500.0	497.9	23.5	21.9	14.066	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #1	300.0	299.0	8.4	7.4	8.763	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #1	500.0	498.7	10.9	9.3	6.593	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #2	500.0	500.0	9.2	7.5	5.541	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #2	14,526.0	14,687.9	398.7	189.3	1.904	SF

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S7-T1N-R68W (Woolley-Sosa/Becky)						
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	400.0	400.0	18.3	17.0	13.984	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	14,526.0	14,809.6	419.7	204.3	1.949	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #2	266.3	267.3	19.6	18.7	23.209	CC
Woolley-Becky 2F-7H-E168 - Hz - Plan #2	300.0	301.0	19.6	18.6	20.372	ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #2	1,000.0	997.2	40.9	37.5	12.033	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	232.0	233.0	26.2	25.5	36.206	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	300.0	300.8	26.4	25.5	27.510	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	1,000.0	995.5	54.2	50.8	15.934	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	166.3	167.3	30.8	30.3	62.186	CC
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	200.0	201.0	30.8	30.2	50.255	ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	1,000.0	994.0	64.9	61.5	19.139	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #1	200.0	198.0	81.1	80.5	133.606	CC, ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #1	900.0	888.0	124.5	121.4	40.049	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	300.0	298.0	75.8	74.8	79.211	CC
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	400.0	397.7	76.0	74.7	58.219	ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	1,000.0	993.0	113.9	110.4	32.516	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	554.5	553.2	70.7	68.9	38.261	CC
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	600.0	598.9	70.8	68.8	35.271	ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	7,900.0	7,582.7	433.1	401.0	13.476	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	500.0	498.0	65.8	64.1	39.748	CC
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	600.0	598.7	66.1	64.1	32.965	ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	7,800.0	7,644.6	101.0	69.9	3.243	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #2	500.0	498.0	51.4	49.7	31.063	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #2	7,811.9	7,633.8	219.0	187.9	7.052	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	929.2	930.4	34.4	31.1	10.549	CC
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	1,000.0	1,001.3	34.6	31.0	9.678	ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	1,300.0	1,300.4	41.2	36.1	8.032	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	968.4	969.1	16.7	13.2	4.690	CC, ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	1,000.0	1,000.7	17.0	13.2	4.541	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 100-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,800.0	7,585.0	7,537.9	7,535.4	64.0	13.4	88.97	3,833.9	809.4	473.4	396.7	76.69	6.173	
10,900.0	7,585.0	7,538.9	7,536.4	65.7	13.4	89.20	3,833.9	809.4	392.9	314.5	78.41	5.011	
11,000.0	7,585.0	7,539.9	7,537.4	67.4	13.4	89.43	3,833.9	809.4	323.5	243.3	80.14	4.036	
11,100.0	7,585.0	7,541.0	7,538.5	69.1	13.4	89.66	3,833.9	809.4	273.7	191.9	81.84	3.345	
11,193.7	7,585.0	7,541.9	7,539.4	70.7	13.4	89.87	3,833.9	809.4	256.4	173.1	83.30	3.078	CC
11,200.0	7,585.0	7,542.0	7,539.5	70.8	13.4	89.89	3,833.9	809.4	256.5	173.1	83.40	3.076	ES, SF
11,300.0	7,585.0	7,543.0	7,540.5	72.5	13.4	90.12	3,833.9	809.4	278.5	193.6	84.94	3.279	
11,400.0	7,585.0	7,544.0	7,541.6	74.2	13.4	90.35	3,833.9	809.4	332.0	245.5	86.47	3.840	
11,500.0	7,585.0	7,545.1	7,542.6	75.9	13.4	90.60	3,833.9	809.4	404.7	316.7	87.97	4.600	
11,600.0	7,585.0	7,546.1	7,543.6	77.6	13.4	90.85	3,834.0	809.4	488.0	398.6	89.45	5.456	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN ONLY

Offset Site Error: 0.0 ft

Survey Program: 775-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,800.0	7,585.0	7,681.5	7,555.0	81.0	25.4	90.00	4,895.6	520.6	459.7	355.6	104.07	4.417	
11,900.0	7,585.0	7,681.5	7,555.0	82.7	25.4	90.00	4,895.6	520.6	360.9	255.4	105.55	3.419	
12,000.0	7,585.0	7,681.5	7,555.0	84.4	25.4	90.00	4,895.6	520.6	263.4	156.2	107.20	2.457	
12,100.0	7,585.0	7,681.5	7,555.0	86.1	25.4	90.00	4,895.6	520.6	168.9	60.0	108.94	1.550	
12,200.0	7,585.0	7,681.5	7,555.0	87.8	25.4	90.00	4,895.6	520.6	87.5	-23.2	110.68	0.791	Level 1
12,254.8	7,585.0	7,681.5	7,555.0	88.7	25.4	90.00	4,895.6	520.6	68.4	-43.3	111.74	0.612	Level 1, CC, ES, SF
12,300.0	7,585.0	7,681.5	7,555.0	89.5	25.4	90.00	4,895.6	520.6	82.1	-30.5	112.61	0.729	Level 1
12,400.0	7,585.0	7,681.5	7,555.0	91.2	25.4	90.00	4,895.6	520.6	160.0	45.4	114.59	1.396	Level 3
12,500.0	7,585.0	7,681.5	7,555.0	92.9	25.4	90.00	4,895.6	520.6	253.4	136.8	116.55	2.174	
12,600.0	7,585.0	7,681.5	7,555.0	94.6	25.4	90.00	4,895.6	520.6	350.1	231.6	118.47	2.955	
12,700.0	7,585.0	7,681.5	7,555.0	96.3	25.4	90.00	4,895.6	520.6	447.9	327.5	120.36	3.721	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 76-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,300.0	7,585.0	7,745.1	7,552.7	39.0	27.7	-87.91	2,337.4	477.4	404.4	339.6	64.86	6.236	
9,400.0	7,585.0	7,745.5	7,553.1	40.6	27.7	-88.31	2,337.5	477.4	306.1	239.5	66.53	4.601	
9,500.0	7,585.0	7,745.9	7,553.6	42.3	27.7	-88.71	2,337.5	477.4	209.3	141.1	68.20	3.069	
9,600.0	7,585.0	7,746.4	7,554.0	43.9	27.7	-89.11	2,337.5	477.4	118.0	48.1	69.88	1.689	
9,699.4	7,585.0	7,746.8	7,554.5	45.5	27.7	-89.51	2,337.5	477.4	63.6	-7.9	71.56	0.889	Level 1, CC
9,700.0	7,585.0	7,746.8	7,554.5	45.5	27.7	-89.51	2,337.5	477.4	63.6	-7.9	71.57	0.889	Level 1, ES, SF
9,800.0	7,585.0	7,747.3	7,554.9	47.2	27.7	-89.92	2,337.5	477.4	119.1	45.8	73.26	1.625	
9,900.0	7,585.0	7,747.8	7,555.4	48.9	27.7	-90.33	2,337.5	477.4	210.5	135.5	74.94	2.808	
10,000.0	7,585.0	7,748.2	7,555.8	50.5	27.7	-90.75	2,337.5	477.4	307.3	230.6	76.63	4.010	
10,100.0	7,585.0	7,748.7	7,556.3	52.2	27.7	-91.17	2,337.5	477.4	405.6	327.3	78.32	5.179	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 8164-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,300.0	7,585.0	7,524.0	7,524.0	106.8	13.1	90.00	6,353.4	610.3	470.7	350.9	119.84	3.928	
13,400.0	7,585.0	7,524.0	7,524.0	108.5	13.1	90.00	6,353.4	610.3	381.2	259.6	121.58	3.136	
13,500.0	7,585.0	7,524.0	7,524.0	110.2	13.1	90.00	6,353.4	610.3	298.5	175.2	123.33	2.420	
13,600.0	7,585.0	7,524.0	7,524.0	112.0	13.1	90.00	6,353.4	610.3	229.9	104.8	125.07	1.838	
13,700.0	7,585.0	7,524.0	7,524.0	113.7	13.1	90.00	6,353.4	610.3	191.3	64.5	126.81	1.509	
13,731.2	7,585.0	7,524.0	7,524.0	114.3	13.1	90.00	6,353.4	610.3	188.7	61.4	127.36	1.482	Level 3, CC, ES, SF
13,800.0	7,585.0	7,524.0	7,524.0	115.5	13.1	90.00	6,353.4	610.3	200.9	72.3	128.56	1.563	
13,900.0	7,585.0	7,524.0	7,524.0	117.2	13.1	90.00	6,353.4	610.3	253.2	122.9	130.30	1.943	
14,000.0	7,585.0	7,524.0	7,524.0	119.0	13.1	90.00	6,353.4	610.3	328.4	196.4	132.05	2.487	
14,100.0	7,585.0	7,524.0	7,524.0	120.7	13.1	90.00	6,353.4	610.3	414.3	280.5	133.79	3.096	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 8200-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
12,800.0	7,585.0	7,528.0	7,528.0	98.1	13.1	-90.00	5,590.6	-19.0	453.3	342.7	110.60	4.099	
12,900.0	7,585.0	7,528.0	7,528.0	99.8	13.1	-90.00	5,590.6	-19.0	425.0	312.5	112.52	3.777	
12,966.0	7,585.0	7,528.0	7,528.0	101.0	13.1	-90.00	5,590.6	-19.0	419.4	305.7	113.76	3.687	CC, ES
13,000.0	7,585.0	7,528.0	7,528.0	101.5	13.1	-90.00	5,590.6	-19.0	420.9	306.5	114.40	3.679	SF
13,100.0	7,585.0	7,528.0	7,528.0	103.3	13.1	-90.00	5,590.6	-19.0	441.8	325.6	116.25	3.800	
13,200.0	7,585.0	7,528.0	7,528.0	105.0	13.1	-90.00	5,590.6	-19.0	484.5	366.4	118.08	4.103	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SURVEYS

Survey Program: 7771-Geolink MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
14,200.0	7,585.0	7,519.0	7,519.0	122.5	13.1	-90.00	6,943.1	-19.6	472.3	336.8	135.53	3.485	
14,297.7	7,585.0	7,519.0	7,519.0	124.2	13.1	-90.00	6,943.1	-19.6	462.1	324.8	137.24	3.367	CC
14,300.0	7,585.0	7,519.0	7,519.0	124.2	13.1	-90.00	6,943.1	-19.6	462.1	324.8	137.28	3.366	ES, SF
14,400.0	7,585.0	7,519.0	7,519.0	125.9	13.1	-90.00	6,943.1	-19.6	473.3	334.2	139.02	3.404	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 8325-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	74.0	74.0	0.0	0.1	-46.93	191.2	-204.6	280.1				
100.0	100.0	174.0	174.0	0.1	0.3	-46.93	191.2	-204.6	280.1	279.6	0.43	644.127	
200.0	200.0	274.0	274.0	0.3	0.5	-46.93	191.2	-204.6	280.1	279.3	0.78	357.283	
300.0	300.0	374.0	374.0	0.5	0.7	-46.93	191.2	-204.6	280.1	278.9	1.13	247.200	
400.0	400.0	474.0	474.0	0.7	0.8	-46.93	191.2	-204.6	280.1	278.6	1.48	188.975	
500.0	500.0	574.0	574.0	0.8	1.0	-46.93	191.2	-204.6	280.1	278.2	1.83	152.949	CC, ES
600.0	600.0	674.0	674.0	1.0	1.2	-137.46	191.2	-204.6	280.7	278.5	2.18	128.749	
700.0	700.0	774.0	774.0	1.2	1.4	-137.81	191.2	-204.6	282.6	280.1	2.53	111.704	
800.0	799.9	873.9	873.9	1.4	1.5	-138.37	191.2	-204.6	285.9	283.0	2.88	99.189	
900.0	899.7	973.7	973.7	1.6	1.7	-139.14	191.2	-204.6	290.5	287.2	3.24	89.729	
1,000.0	999.4	1,073.4	1,073.4	1.8	1.9	-140.07	191.2	-204.6	296.2	292.6	3.60	82.377	
1,100.0	1,099.1	1,173.1	1,173.1	2.0	2.0	-140.99	191.2	-204.6	302.0	298.0	3.95	76.368	
1,200.0	1,198.8	1,272.8	1,272.8	2.2	2.2	-141.87	191.2	-204.6	307.9	303.6	4.31	71.371	
1,300.0	1,298.5	1,372.5	1,372.5	2.4	2.4	-142.73	191.2	-204.6	313.9	309.2	4.67	67.159	
1,400.0	1,398.3	1,472.3	1,472.3	2.6	2.6	-143.54	191.2	-204.6	320.0	314.9	5.03	63.565	
1,500.0	1,498.0	1,572.0	1,572.0	2.8	2.7	-144.33	191.2	-204.6	326.1	320.7	5.39	60.466	
1,600.0	1,597.7	1,671.7	1,671.7	3.0	2.9	-145.09	191.2	-204.6	332.3	326.5	5.75	57.768	
1,700.0	1,697.4	1,771.4	1,771.4	3.2	3.1	-145.82	191.2	-204.6	338.5	332.4	6.11	55.401	
1,800.0	1,797.1	1,871.1	1,871.1	3.4	3.3	-146.53	191.2	-204.6	344.8	338.3	6.47	53.309	
1,900.0	1,896.8	1,970.8	1,970.8	3.7	3.4	-147.21	191.2	-204.6	351.1	344.3	6.82	51.448	
2,000.0	1,996.5	2,070.5	2,070.5	3.9	3.6	-147.86	191.2	-204.6	357.5	350.3	7.18	49.782	
2,100.0	2,096.2	2,170.2	2,170.2	4.1	3.8	-148.50	191.2	-204.6	363.9	356.4	7.54	48.283	
2,200.0	2,196.0	2,270.0	2,270.0	4.3	4.0	-149.11	191.2	-204.6	370.4	362.5	7.89	46.928	
2,300.0	2,295.7	2,369.7	2,369.7	4.5	4.1	-149.70	191.2	-204.6	376.9	368.6	8.25	45.697	
2,400.0	2,395.4	2,469.4	2,469.4	4.7	4.3	-150.27	191.2	-204.6	383.4	374.8	8.60	44.575	
2,500.0	2,495.1	2,569.1	2,569.1	5.0	4.5	-150.82	191.2	-204.6	390.0	381.1	8.96	43.548	
2,600.0	2,594.8	2,668.8	2,668.8	5.2	4.7	-151.35	191.2	-204.6	396.6	387.3	9.31	42.604	
2,700.0	2,694.5	2,768.5	2,768.5	5.4	4.8	-151.86	191.2	-204.6	403.3	393.6	9.66	41.735	
2,800.0	2,794.2	2,868.2	2,868.2	5.6	5.0	-152.36	191.2	-204.6	410.0	400.0	10.02	40.932	
2,900.0	2,894.0	2,968.0	2,968.0	5.8	5.2	-152.84	191.2	-204.6	416.7	406.3	10.37	40.187	
3,000.0	2,993.7	3,067.7	3,067.7	6.0	5.4	-153.31	191.2	-204.6	423.4	412.7	10.72	39.496	
3,100.0	3,093.4	3,167.4	3,167.4	6.3	5.5	-153.76	191.2	-204.6	430.2	419.1	11.07	38.852	
3,200.0	3,193.1	3,267.1	3,267.1	6.5	5.7	-154.20	191.2	-204.6	437.0	425.6	11.42	38.251	
3,300.0	3,292.8	3,366.8	3,366.8	6.7	5.9	-154.62	191.2	-204.6	443.8	432.1	11.78	37.689	
3,400.0	3,392.5	3,466.5	3,466.5	6.9	6.1	-155.03	191.2	-204.6	450.7	438.5	12.13	37.162	
3,500.0	3,492.2	3,566.2	3,566.2	7.1	6.2	-155.43	191.2	-204.6	457.5	445.1	12.48	36.668	
3,600.0	3,592.0	3,666.0	3,666.0	7.3	6.4	-155.82	191.2	-204.6	464.4	451.6	12.83	36.203	
3,700.0	3,691.7	3,765.7	3,765.7	7.6	6.6	-156.20	191.2	-204.6	471.3	458.2	13.18	35.764	
3,800.0	3,791.4	3,865.4	3,865.4	7.8	6.7	-156.56	191.2	-204.6	478.3	464.7	13.53	35.351	
3,900.0	3,891.1	3,965.1	3,965.1	8.0	6.9	-156.92	191.2	-204.6	485.2	471.3	13.88	34.960	
4,000.0	3,990.8	4,064.8	4,064.8	8.2	7.1	-157.26	191.2	-204.6	492.2	477.9	14.23	34.590	
4,100.0	4,090.5	4,164.5	4,164.5	8.4	7.3	-157.60	191.2	-204.6	499.2	484.6	14.58	34.239	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 41-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,300.0	5,287.1	5,699.2	5,319.5	11.1	34.4	25.33	-217.5	793.2	495.8	453.4	42.45	11.680	
5,400.0	5,386.8	5,802.8	5,422.8	11.3	34.6	26.66	-225.0	790.3	489.8	447.2	42.60	11.495	
5,500.0	5,486.5	5,903.7	5,523.6	11.5	34.7	27.62	-229.4	788.5	483.5	440.7	42.76	11.308	
5,600.0	5,586.2	6,010.2	5,630.1	11.7	34.8	28.41	-231.6	786.7	476.3	433.4	42.91	11.100	
5,700.0	5,686.0	6,111.8	5,731.6	11.9	34.8	28.98	-231.6	784.8	468.0	425.0	43.07	10.867	
5,800.0	5,785.7	6,210.9	5,830.7	12.2	34.9	29.53	-231.5	783.1	459.9	416.6	43.24	10.636	
5,900.0	5,885.4	6,310.0	5,929.8	12.4	34.9	30.11	-231.6	781.3	451.8	408.4	43.40	10.411	
6,000.0	5,985.1	6,409.2	6,029.0	12.6	35.0	30.73	-231.7	779.7	443.9	400.4	43.56	10.192	
6,100.0	6,084.8	6,508.3	6,128.1	12.8	35.1	31.35	-231.9	778.1	436.2	392.5	43.70	9.980	
6,200.0	6,184.5	6,606.9	6,226.6	13.0	35.1	31.93	-231.7	777.0	428.6	384.8	43.84	9.777	
6,300.0	6,284.2	6,705.8	6,325.5	13.2	35.2	32.44	-231.1	776.3	421.4	377.4	44.00	9.578	
6,400.0	6,384.0	6,805.0	6,424.8	13.5	35.2	33.00	-230.7	775.7	414.3	370.2	44.15	9.384	
6,500.0	6,483.7	6,904.6	6,524.3	13.7	35.3	33.62	-230.5	775.0	407.3	363.0	44.30	9.195	
6,600.0	6,583.4	7,004.3	6,624.0	13.9	35.3	34.28	-230.5	774.2	400.4	356.0	44.43	9.011	
6,700.0	6,683.1	7,104.5	6,724.3	14.1	35.4	35.00	-230.7	773.2	393.4	348.9	44.56	8.828	
6,800.0	6,782.8	7,204.7	6,824.4	14.3	35.5	35.79	-230.9	772.0	386.4	341.7	44.68	8.647	
6,900.0	6,882.5	7,304.6	6,924.3	14.6	35.6	36.62	-231.2	770.5	379.3	334.5	44.79	8.468	
7,000.0	6,982.2	7,404.8	7,024.5	14.8	35.6	37.50	-231.5	769.0	372.2	327.3	44.89	8.292	
7,098.4	7,080.1	7,503.5	7,123.2	15.0	35.7	96.33	-231.7	767.3	368.7	323.8	44.90	8.212	
7,100.0	7,081.8	7,505.2	7,124.9	15.0	35.7	96.56	-231.7	767.2	367.5	322.6	44.95	8.177	CC, ES, SF
7,200.0	7,179.3	7,602.9	7,222.6	15.2	35.8	117.16	-231.7	765.4	373.8	329.2	44.59	8.384	
7,300.0	7,271.7	7,695.5	7,315.2	15.5	35.8	125.53	-231.6	763.6	393.6	349.8	43.77	8.992	
7,400.0	7,356.3	7,780.9	7,400.6	15.8	35.9	130.74	-231.4	762.0	428.5	385.8	42.65	10.046	
7,500.0	7,430.5	7,856.3	7,475.9	16.2	35.9	133.74	-231.1	760.5	478.9	437.4	41.57	11.520	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GYRO

Offset Site Error: 0.0 ft

Survey Program: 100-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
7,800.0	7,570.0	7,614.9	7,612.9	18.3	13.4	37.48	887.1	599.4	455.1	433.3	21.88	20.800	
7,900.0	7,584.1	7,623.5	7,621.5	19.2	13.4	85.19	886.7	599.7	357.2	327.0	30.19	11.832	
8,000.0	7,585.0	7,620.1	7,618.1	20.3	13.4	97.26	886.9	599.6	260.0	228.8	31.21	8.330	
8,100.0	7,585.0	7,615.6	7,613.6	21.5	13.4	93.72	887.1	599.4	166.1	133.5	32.65	5.088	
8,200.0	7,585.0	7,610.9	7,608.9	22.7	13.4	89.90	887.3	599.2	86.9	52.9	34.08	2.551	
8,250.5	7,585.0	7,608.4	7,606.4	23.4	13.4	87.87	887.4	599.2	70.8	36.1	34.78	2.037	CC, ES, SF
8,300.0	7,585.0	7,605.8	7,603.8	24.0	13.4	85.81	887.5	599.1	86.4	51.0	35.43	2.439	
8,400.0	7,585.0	7,600.4	7,598.4	25.4	13.4	81.46	887.8	598.9	165.3	128.6	36.65	4.509	
8,500.0	7,585.0	7,594.5	7,592.5	26.8	13.4	76.82	888.1	598.6	259.1	221.4	37.69	6.874	
8,600.0	7,585.0	7,588.0	7,586.0	28.2	13.3	71.80	888.5	598.4	356.2	317.7	38.43	9.266	
8,700.0	7,585.0	7,580.5	7,578.6	29.7	13.3	66.43	889.0	598.1	454.4	415.6	38.82	11.706	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2A-7H-E168 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-117.50	-7.3	-14.0	15.8				
100.0	100.0	99.0	99.0	0.1	0.1	-117.50	-7.3	-14.0	15.8	15.5	0.26	60.566	
200.0	200.0	199.0	199.0	0.3	0.3	-117.50	-7.3	-14.0	15.8	15.2	0.61	25.901	CC, ES
300.0	300.0	298.7	298.7	0.5	0.5	-117.63	-7.7	-14.7	16.6	15.7	0.96	17.346	
400.0	400.0	398.4	398.3	0.7	0.7	-117.95	-9.0	-17.0	19.2	17.9	1.31	14.644	
500.0	500.0	497.9	497.8	0.8	0.8	-118.32	-11.2	-20.7	23.5	21.9	1.67	14.066	SF
600.0	600.0	597.2	596.9	1.0	1.0	151.69	-14.2	-25.9	30.4	28.4	2.00	15.170	
700.0	700.0	697.0	696.4	1.2	1.2	154.20	-16.8	-32.0	39.4	37.0	2.35	16.754	
800.0	799.9	796.6	795.9	1.4	1.4	158.50	-17.8	-38.3	49.5	46.8	2.70	18.366	
900.0	899.7	895.8	894.9	1.6	1.6	162.45	-18.0	-44.7	61.4	58.4	3.04	20.178	
1,000.0	999.4	994.9	993.7	1.8	1.8	165.40	-18.3	-51.0	74.8	71.4	3.39	22.060	
1,100.0	1,099.1	1,093.9	1,092.5	2.0	2.0	167.48	-18.6	-57.3	88.4	84.6	3.74	23.650	
1,200.0	1,198.8	1,192.9	1,191.4	2.2	2.2	169.00	-18.8	-63.6	102.1	98.0	4.08	24.992	
1,300.0	1,298.5	1,292.0	1,290.2	2.4	2.5	170.16	-19.1	-69.9	115.8	111.4	4.43	26.137	
1,400.0	1,398.3	1,391.0	1,389.0	2.6	2.7	171.08	-19.4	-76.3	129.6	124.8	4.78	27.124	
1,500.0	1,498.0	1,490.0	1,487.8	2.8	2.9	171.81	-19.6	-82.6	143.4	138.3	5.12	27.983	
1,600.0	1,597.7	1,589.0	1,586.7	3.0	3.1	172.42	-19.9	-88.9	157.2	151.7	5.47	28.736	
1,700.0	1,697.4	1,688.1	1,685.5	3.2	3.3	172.93	-20.2	-95.2	171.0	165.2	5.82	29.403	
1,800.0	1,797.1	1,787.1	1,784.3	3.4	3.5	173.37	-20.4	-101.6	184.9	178.7	6.16	29.996	
1,900.0	1,896.8	1,886.1	1,883.1	3.7	3.7	173.74	-20.7	-107.9	198.7	192.2	6.51	30.528	
2,000.0	1,996.5	1,985.1	1,982.0	3.9	3.9	174.07	-20.9	-114.2	212.6	205.8	6.86	31.007	
2,100.0	2,096.2	2,084.2	2,080.8	4.1	4.1	174.35	-21.2	-120.5	226.5	219.3	7.20	31.441	
2,200.0	2,196.0	2,183.2	2,179.6	4.3	4.3	174.60	-21.5	-126.9	240.4	232.8	7.55	31.835	
2,300.0	2,295.7	2,282.2	2,278.4	4.5	4.5	174.83	-21.7	-133.2	254.2	246.3	7.90	32.196	
2,400.0	2,395.4	2,381.3	2,377.3	4.7	4.7	175.03	-22.0	-139.5	268.1	259.9	8.24	32.527	
2,500.0	2,495.1	2,480.3	2,476.1	5.0	4.9	175.21	-22.3	-145.8	282.0	273.4	8.59	32.831	
2,600.0	2,594.8	2,579.3	2,574.9	5.2	5.1	175.38	-22.5	-152.1	295.9	286.9	8.94	33.112	
2,700.0	2,694.5	2,678.3	2,673.7	5.4	5.3	175.53	-22.8	-158.5	309.8	300.5	9.28	33.372	
2,800.0	2,794.2	2,777.4	2,772.6	5.6	5.5	175.66	-23.1	-164.8	323.7	314.0	9.63	33.614	
2,900.0	2,894.0	2,876.4	2,871.4	5.8	5.7	175.79	-23.3	-171.1	337.6	327.6	9.98	33.839	
3,000.0	2,993.7	2,975.4	2,970.2	6.0	5.9	175.90	-23.6	-177.4	351.5	341.1	10.32	34.049	
3,100.0	3,093.4	3,074.4	3,069.0	6.3	6.1	176.01	-23.9	-183.8	365.3	354.7	10.67	34.246	
3,200.0	3,193.1	3,173.5	3,167.9	6.5	6.3	176.11	-24.1	-190.1	379.2	368.2	11.01	34.430	
3,300.0	3,292.8	3,272.5	3,266.7	6.7	6.5	176.20	-24.4	-196.4	393.1	381.8	11.36	34.604	
3,400.0	3,392.5	3,371.5	3,365.5	6.9	6.7	176.29	-24.6	-202.7	407.0	395.3	11.71	34.767	
3,500.0	3,492.2	3,470.6	3,464.3	7.1	6.9	176.37	-24.9	-209.1	420.9	408.9	12.05	34.920	
3,600.0	3,592.0	3,569.6	3,563.2	7.3	7.2	176.44	-25.2	-215.4	434.8	422.4	12.40	35.066	
3,700.0	3,691.7	3,668.6	3,662.0	7.6	7.4	176.51	-25.4	-221.7	448.7	436.0	12.75	35.203	
3,800.0	3,791.4	3,767.6	3,760.8	7.8	7.6	176.58	-25.7	-228.0	462.6	449.5	13.09	35.333	
3,900.0	3,891.1	3,866.7	3,859.6	8.0	7.8	176.64	-26.0	-234.4	476.5	463.1	13.44	35.457	
4,000.0	3,990.8	3,965.7	3,958.5	8.2	8.0	176.70	-26.2	-240.7	490.4	476.7	13.79	35.574	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2B-7H-E168 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-8.4	8.5				
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-8.4	8.4	8.1	0.26	32.233	
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-8.4	8.4	7.8	0.61	13.784	
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-8.4	8.4	7.4	0.96	8.763	CC, ES
400.0	400.0	398.9	398.9	0.7	0.7	-94.18	-0.7	-8.9	9.0	7.7	1.31	6.860	
500.0	500.0	498.7	498.7	0.8	0.8	-103.97	-2.6	-10.6	10.9	9.3	1.66	6.593	SF
600.0	600.0	598.4	598.3	1.0	1.0	156.94	-6.0	-13.4	15.5	13.5	2.01	7.705	
700.0	700.0	698.5	698.2	1.2	1.2	154.62	-9.2	-16.3	21.9	19.5	2.36	9.276	
800.0	799.9	798.6	798.3	1.4	1.4	156.86	-11.0	-18.4	28.4	25.7	2.71	10.504	
900.0	899.7	898.6	898.3	1.6	1.6	160.89	-11.4	-19.6	35.4	32.4	3.06	11.597	
1,000.0	999.4	998.2	997.9	1.8	1.7	164.35	-11.6	-20.7	43.7	40.2	3.40	12.822	
1,100.0	1,099.1	1,097.8	1,097.5	2.0	1.9	166.74	-11.7	-21.8	52.1	48.3	3.75	13.874	
1,200.0	1,198.8	1,197.5	1,197.2	2.2	2.1	168.46	-11.9	-22.9	60.6	56.5	4.10	14.763	
1,300.0	1,298.5	1,297.1	1,296.8	2.4	2.2	169.76	-12.1	-24.0	69.1	64.6	4.45	15.524	
1,400.0	1,398.3	1,396.7	1,396.4	2.6	2.4	170.77	-12.2	-25.1	77.6	72.8	4.80	16.180	
1,500.0	1,498.0	1,496.3	1,496.0	2.8	2.6	171.58	-12.4	-26.2	86.2	81.1	5.15	16.751	
1,600.0	1,597.7	1,596.0	1,595.6	3.0	2.8	172.25	-12.5	-27.2	94.8	89.3	5.49	17.252	
1,700.0	1,697.4	1,695.6	1,695.3	3.2	2.9	172.80	-12.7	-28.3	103.4	97.5	5.84	17.696	
1,800.0	1,797.1	1,795.2	1,794.9	3.4	3.1	173.27	-12.9	-29.4	112.0	105.8	6.19	18.091	
1,900.0	1,896.8	1,894.8	1,894.5	3.7	3.3	173.67	-13.0	-30.5	120.6	114.1	6.54	18.445	
2,000.0	1,996.5	1,994.5	1,994.1	3.9	3.5	174.02	-13.2	-31.6	129.2	122.3	6.89	18.764	
2,100.0	2,096.2	2,094.1	2,093.7	4.1	3.6	174.32	-13.3	-32.7	137.8	130.6	7.23	19.053	
2,200.0	2,196.0	2,193.7	2,193.3	4.3	3.8	174.59	-13.5	-33.8	146.5	138.9	7.58	19.315	
2,300.0	2,295.7	2,293.3	2,293.0	4.5	4.0	174.83	-13.7	-34.9	155.1	147.1	7.93	19.556	
2,400.0	2,395.4	2,393.0	2,392.6	4.7	4.2	175.05	-13.8	-36.0	163.7	155.4	8.28	19.776	
2,500.0	2,495.1	2,492.6	2,492.2	5.0	4.3	175.24	-14.0	-37.0	172.3	163.7	8.63	19.978	
2,600.0	2,594.8	2,592.2	2,591.8	5.2	4.5	175.41	-14.1	-38.1	181.0	172.0	8.97	20.165	
2,700.0	2,694.5	2,691.8	2,691.4	5.4	4.7	175.57	-14.3	-39.2	189.6	180.3	9.32	20.339	
2,800.0	2,794.2	2,791.5	2,791.1	5.6	4.9	175.71	-14.5	-40.3	198.2	188.6	9.67	20.500	
2,900.0	2,894.0	2,891.1	2,890.7	5.8	5.0	175.85	-14.6	-41.4	206.9	196.9	10.02	20.649	
3,000.0	2,993.7	2,990.7	2,990.3	6.0	5.2	175.97	-14.8	-42.5	215.5	205.1	10.37	20.789	
3,100.0	3,093.4	3,090.3	3,089.9	6.3	5.4	176.08	-14.9	-43.6	224.1	213.4	10.71	20.920	
3,200.0	3,193.1	3,190.0	3,189.5	6.5	5.6	176.19	-15.1	-44.7	232.8	221.7	11.06	21.043	
3,300.0	3,292.8	3,289.6	3,289.2	6.7	5.7	176.28	-15.3	-45.8	241.4	230.0	11.41	21.158	
3,400.0	3,392.5	3,389.2	3,388.8	6.9	5.9	176.37	-15.4	-46.9	250.1	238.3	11.76	21.267	
3,500.0	3,492.2	3,488.8	3,488.4	7.1	6.1	176.46	-15.6	-47.9	258.7	246.6	12.11	21.369	
3,600.0	3,592.0	3,588.5	3,588.0	7.3	6.3	176.53	-15.7	-49.0	267.3	254.9	12.45	21.465	
3,700.0	3,691.7	3,688.1	3,687.6	7.6	6.4	176.61	-15.9	-50.1	276.0	263.2	12.80	21.557	
3,800.0	3,791.4	3,787.7	3,787.3	7.8	6.6	176.68	-16.1	-51.2	284.6	271.5	13.15	21.643	
3,900.0	3,891.1	3,887.3	3,886.9	8.0	6.8	176.74	-16.2	-52.3	293.3	279.8	13.50	21.726	
4,000.0	3,990.8	3,987.0	3,986.5	8.2	7.0	176.80	-16.4	-53.4	301.9	288.1	13.85	21.804	
4,100.0	4,090.5	4,086.6	4,086.1	8.4	7.1	176.86	-16.6	-54.5	310.6	296.4	14.20	21.878	
4,200.0	4,190.2	4,186.2	4,185.7	8.7	7.3	176.92	-16.7	-55.6	319.2	304.7	14.54	21.949	
4,300.0	4,290.0	4,285.8	4,285.4	8.9	7.5	176.97	-16.9	-56.7	327.8	313.0	14.89	22.016	
4,400.0	4,389.7	4,385.5	4,385.0	9.1	7.7	177.02	-17.0	-57.7	336.5	321.3	15.24	22.080	
4,500.0	4,489.4	4,485.1	4,484.6	9.3	7.8	177.06	-17.2	-58.8	345.1	329.5	15.59	22.142	
4,600.0	4,589.1	4,584.7	4,584.2	9.5	8.0	177.11	-17.4	-59.9	353.8	337.8	15.94	22.201	
4,700.0	4,688.8	4,684.3	4,683.8	9.7	8.2	177.15	-17.5	-61.0	362.4	346.1	16.28	22.257	
4,800.0	4,788.5	4,784.0	4,783.4	10.0	8.4	177.19	-17.7	-62.1	371.1	354.4	16.63	22.311	
4,900.0	4,888.2	4,883.6	4,883.1	10.2	8.5	177.23	-17.8	-63.2	379.7	362.7	16.98	22.362	
5,000.0	4,988.0	4,983.2	4,982.7	10.4	8.7	177.27	-18.0	-64.3	388.4	371.0	17.33	22.412	
5,100.0	5,087.7	5,082.8	5,082.3	10.6	8.9	177.30	-18.2	-65.4	397.0	379.3	17.68	22.460	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2B-7H-E168 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,187.4	5,182.5	5,181.9	10.8	9.1	177.34	-18.3	-66.5	405.6	387.6	18.02	22.506	
5,300.0	5,287.1	5,282.1	5,281.5	11.1	9.2	177.37	-18.5	-67.6	414.3	395.9	18.37	22.550	
5,400.0	5,386.8	5,381.7	5,381.2	11.3	9.4	177.40	-18.6	-68.6	422.9	404.2	18.72	22.592	
5,500.0	5,486.5	5,481.3	5,480.8	11.5	9.6	177.43	-18.8	-69.7	431.6	412.5	19.07	22.633	
5,600.0	5,586.2	5,581.0	5,580.4	11.7	9.8	177.46	-19.0	-70.8	440.2	420.8	19.42	22.673	
5,700.0	5,686.0	5,680.6	5,680.0	11.9	9.9	177.48	-19.1	-71.9	448.9	429.1	19.76	22.711	
5,800.0	5,785.7	5,780.2	5,779.6	12.2	10.1	177.51	-19.3	-73.0	457.5	437.4	20.11	22.748	
5,900.0	5,885.4	5,879.8	5,879.3	12.4	10.3	177.54	-19.4	-74.1	466.2	445.7	20.46	22.783	
6,000.0	5,985.1	5,979.5	5,978.9	12.6	10.5	177.56	-19.6	-75.2	474.8	454.0	20.81	22.818	
6,100.0	6,084.8	6,079.1	6,078.5	12.8	10.6	177.58	-19.8	-76.3	483.5	462.3	21.16	22.851	
6,200.0	6,184.5	6,178.7	6,178.1	13.0	10.8	177.61	-19.9	-77.4	492.1	470.6	21.51	22.883	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-142.46	-7.3	-5.6	9.2				
100.0	100.0	100.0	100.0	0.1	0.1	-142.46	-7.3	-5.6	9.2	8.9	0.26	35.094	
200.0	200.0	200.0	200.0	0.3	0.3	-142.46	-7.3	-5.6	9.2	8.6	0.61	15.040	
300.0	300.0	300.0	300.0	0.5	0.5	-142.46	-7.3	-5.6	9.2	8.2	0.96	9.571	
400.0	400.0	400.0	400.0	0.7	0.7	-142.46	-7.3	-5.6	9.2	7.9	1.31	7.019	
500.0	500.0	500.0	500.0	0.8	0.8	-142.46	-7.3	-5.6	9.2	7.5	1.66	5.541	CC, ES
600.0	600.0	600.0	600.0	1.0	1.0	131.22	-7.3	-5.6	9.7	7.7	2.01	4.852	
700.0	700.0	700.1	700.1	1.2	1.2	138.51	-7.2	-4.7	10.9	8.5	2.36	4.625	
800.0	799.9	800.3	800.2	1.4	1.4	145.14	-6.9	-2.1	12.1	9.4	2.71	4.466	
900.0	899.7	900.3	900.2	1.6	1.5	152.10	-6.5	1.7	13.8	10.8	3.06	4.515	
1,000.0	999.4	1,000.2	1,000.0	1.8	1.7	159.18	-6.0	5.6	16.9	13.5	3.41	4.960	
1,100.0	1,099.1	1,100.2	1,099.9	2.0	1.9	164.11	-5.6	9.5	20.3	16.5	3.76	5.396	
1,200.0	1,198.8	1,200.1	1,199.7	2.2	2.1	167.61	-5.2	13.3	23.7	19.6	4.10	5.784	
1,300.0	1,298.5	1,300.0	1,299.6	2.4	2.3	170.21	-4.8	17.2	27.3	22.8	4.45	6.126	
1,400.0	1,398.3	1,400.0	1,399.5	2.6	2.5	172.22	-4.3	21.1	30.9	26.1	4.80	6.428	
1,500.0	1,498.0	1,499.9	1,499.3	2.8	2.6	173.80	-3.9	24.9	34.5	29.3	5.15	6.694	
1,600.0	1,597.7	1,599.8	1,599.2	3.0	2.8	175.09	-3.5	28.8	38.1	32.6	5.50	6.930	
1,700.0	1,697.4	1,699.7	1,699.0	3.2	3.0	176.15	-3.0	32.7	41.7	35.9	5.85	7.140	
1,800.0	1,797.1	1,799.7	1,798.9	3.4	3.2	177.04	-2.6	36.6	45.4	39.2	6.19	7.329	
1,900.0	1,896.8	1,899.6	1,898.7	3.7	3.4	177.79	-2.2	40.4	49.1	42.5	6.54	7.498	
2,000.0	1,996.5	1,999.5	1,998.6	3.9	3.6	178.45	-1.7	44.3	52.7	45.8	6.89	7.651	
2,100.0	2,096.2	2,099.5	2,098.4	4.1	3.7	179.01	-1.3	48.2	56.4	49.2	7.24	7.791	
2,200.0	2,196.0	2,199.4	2,198.3	4.3	3.9	179.51	-0.9	52.1	60.1	52.5	7.59	7.918	
2,300.0	2,295.7	2,299.3	2,298.1	4.5	4.1	179.95	-0.5	55.9	63.8	55.8	7.94	8.034	
2,400.0	2,395.4	2,399.3	2,398.0	4.7	4.3	-179.66	0.0	59.8	67.5	59.2	8.29	8.141	
2,500.0	2,495.1	2,499.2	2,497.9	5.0	4.5	-179.31	0.4	63.7	71.2	62.5	8.64	8.239	
2,600.0	2,594.8	2,599.1	2,597.7	5.2	4.7	-178.99	0.8	67.5	74.9	65.9	8.99	8.330	
2,700.0	2,694.5	2,699.1	2,697.6	5.4	4.9	-178.71	1.3	71.4	78.6	69.2	9.34	8.414	
2,800.0	2,794.2	2,799.0	2,797.4	5.6	5.1	-178.45	1.7	75.3	82.3	72.6	9.69	8.492	
2,900.0	2,894.0	2,898.9	2,897.3	5.8	5.2	-178.21	2.1	79.2	86.0	75.9	10.04	8.565	
3,000.0	2,993.7	2,998.8	2,997.1	6.0	5.4	-177.99	2.5	83.0	89.7	79.3	10.39	8.633	
3,100.0	3,093.4	3,098.8	3,097.0	6.3	5.6	-177.79	3.0	86.9	93.4	82.7	10.74	8.697	
3,200.0	3,193.1	3,198.7	3,196.8	6.5	5.8	-177.60	3.4	90.8	97.1	86.0	11.09	8.757	
3,300.0	3,292.8	3,298.6	3,296.7	6.7	6.0	-177.43	3.8	94.7	100.8	89.4	11.44	8.813	
3,400.0	3,392.5	3,398.6	3,396.6	6.9	6.2	-177.27	4.3	98.5	104.5	92.7	11.79	8.866	
3,500.0	3,492.2	3,498.5	3,496.4	7.1	6.4	-177.12	4.7	102.4	108.2	96.1	12.14	8.916	
3,600.0	3,592.0	3,598.4	3,596.3	7.3	6.5	-176.98	5.1	106.3	111.9	99.4	12.49	8.963	
3,700.0	3,691.7	3,698.4	3,696.1	7.6	6.7	-176.85	5.6	110.2	115.6	102.8	12.84	9.008	
3,800.0	3,791.4	3,798.3	3,796.0	7.8	6.9	-176.73	6.0	114.0	119.4	106.2	13.19	9.050	
3,900.0	3,891.1	3,898.2	3,895.8	8.0	7.1	-176.61	6.4	117.9	123.1	109.5	13.54	9.090	
4,000.0	3,990.8	3,998.2	3,995.7	8.2	7.3	-176.51	6.8	121.8	126.8	112.9	13.89	9.128	
4,100.0	4,090.5	4,098.1	4,095.5	8.4	7.5	-176.40	7.3	125.6	130.5	116.2	14.24	9.164	
4,200.0	4,190.2	4,198.0	4,195.4	8.7	7.7	-176.31	7.7	129.5	134.2	119.6	14.59	9.199	
4,300.0	4,290.0	4,297.9	4,295.2	8.9	7.9	-176.22	8.1	133.4	137.9	123.0	14.94	9.232	
4,400.0	4,389.7	4,397.9	4,395.1	9.1	8.0	-176.13	8.6	137.3	141.6	126.3	15.29	9.263	
4,500.0	4,489.4	4,497.8	4,495.0	9.3	8.2	-176.05	9.0	141.1	145.3	129.7	15.64	9.293	
4,600.0	4,589.1	4,597.7	4,594.8	9.5	8.4	-175.97	9.4	145.0	149.1	133.1	15.99	9.322	
4,700.0	4,688.8	4,697.7	4,694.7	9.7	8.6	-175.90	9.9	148.9	152.8	136.4	16.34	9.349	
4,800.0	4,788.5	4,797.6	4,794.5	10.0	8.8	-175.83	10.3	152.8	156.5	139.8	16.69	9.376	
4,900.0	4,888.2	4,897.5	4,894.4	10.2	9.0	-175.76	10.7	156.6	160.2	143.2	17.04	9.401	
5,000.0	4,988.0	4,997.5	4,994.2	10.4	9.2	-175.70	11.1	160.5	163.9	146.5	17.39	9.425	
5,100.0	5,087.7	5,097.4	5,094.1	10.6	9.4	-175.63	11.6	164.4	167.6	149.9	17.74	9.449	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,187.4	5,197.3	5,193.9	10.8	9.5	-175.58	12.0	168.2	171.3	153.3	18.09	9.471	
5,300.0	5,287.1	5,297.3	5,293.8	11.1	9.7	-175.52	12.4	172.1	175.1	156.6	18.44	9.493	
5,400.0	5,386.8	5,397.2	5,393.6	11.3	9.9	-175.47	12.9	176.0	178.8	160.0	18.79	9.513	
5,500.0	5,486.5	5,497.1	5,493.5	11.5	10.1	-175.41	13.3	179.9	182.5	163.3	19.14	9.533	
5,600.0	5,586.2	5,597.0	5,593.4	11.7	10.3	-175.36	13.7	183.7	186.2	166.7	19.49	9.553	
5,700.0	5,686.0	5,697.0	5,693.2	11.9	10.5	-175.32	14.1	187.6	189.9	170.1	19.84	9.571	
5,800.0	5,785.7	5,796.9	5,793.1	12.2	10.7	-175.27	14.6	191.5	193.6	173.4	20.19	9.589	
5,900.0	5,885.4	5,896.8	5,892.9	12.4	10.8	-175.23	15.0	195.4	197.4	176.8	20.54	9.607	
6,000.0	5,985.1	5,996.8	5,992.8	12.6	11.0	-175.18	15.4	199.2	201.1	180.2	20.89	9.623	
6,100.0	6,084.8	6,096.7	6,092.6	12.8	11.2	-175.14	15.9	203.1	204.8	183.5	21.24	9.640	
6,200.0	6,184.5	6,196.6	6,192.5	13.0	11.4	-175.10	16.3	207.0	208.5	186.9	21.59	9.655	
6,300.0	6,284.2	6,296.6	6,292.3	13.2	11.6	-175.07	16.7	210.8	212.2	190.3	21.95	9.671	
6,400.0	6,384.0	6,396.5	6,392.2	13.5	11.8	-175.03	17.2	214.7	215.9	193.6	22.30	9.685	
6,500.0	6,483.7	6,496.4	6,492.1	13.7	12.0	-174.99	17.6	218.6	219.7	197.0	22.65	9.700	
6,600.0	6,583.4	6,596.4	6,591.9	13.9	12.2	-174.96	18.0	222.5	223.4	200.4	23.00	9.713	
6,700.0	6,683.1	6,696.3	6,691.8	14.1	12.3	-174.93	18.4	226.3	227.1	203.7	23.35	9.727	
6,800.0	6,782.8	6,796.2	6,791.6	14.3	12.5	-174.89	18.9	230.2	230.8	207.1	23.70	9.740	
6,900.0	6,882.5	6,896.1	6,891.5	14.6	12.7	-174.86	19.3	234.1	234.5	210.5	24.05	9.753	
7,000.0	6,982.2	6,996.1	6,991.3	14.8	12.9	-174.83	19.7	238.0	238.2	213.8	24.40	9.765	
7,100.0	7,081.8	7,095.9	7,091.0	15.0	13.1	-118.08	20.2	241.8	241.6	216.9	24.75	9.764	
7,200.0	7,179.3	7,193.6	7,188.7	15.2	13.3	-104.63	20.6	245.6	244.6	219.6	25.06	9.761	
7,300.0	7,271.7	7,288.5	7,283.5	15.5	13.5	-106.63	22.2	249.3	251.0	225.6	25.33	9.907	
7,400.0	7,356.3	7,389.6	7,383.2	15.8	13.7	-111.61	38.0	252.9	263.1	237.6	25.49	10.322	
7,500.0	7,430.5	7,499.2	7,486.3	16.2	13.9	-116.90	74.6	256.2	279.8	254.4	25.46	10.993	
7,600.0	7,492.0	7,619.1	7,588.8	16.7	14.3	-121.77	136.2	259.1	299.3	273.9	25.35	11.806	
7,700.0	7,539.0	7,750.8	7,684.0	17.4	14.9	-125.84	226.8	261.3	319.0	293.5	25.47	12.524	
7,800.0	7,570.0	7,895.1	7,761.5	18.3	15.9	-128.89	348.0	262.2	336.3	310.1	26.26	12.808	
7,900.0	7,584.1	8,050.5	7,808.5	19.2	17.4	-130.71	495.7	261.4	348.9	320.8	28.09	12.420	
8,000.0	7,585.0	8,188.3	7,817.0	20.3	19.0	-131.01	632.9	259.3	353.6	323.3	30.31	11.668	
8,100.0	7,585.0	8,288.2	7,817.0	21.5	20.2	-130.73	732.9	257.6	355.6	323.3	32.31	11.007	
8,200.0	7,585.0	8,388.2	7,817.0	22.7	21.5	-130.46	832.8	255.8	357.6	323.2	34.42	10.389	
8,300.0	7,585.0	8,488.2	7,817.0	24.0	22.9	-130.19	932.8	254.1	359.6	323.0	36.64	9.815	
8,400.0	7,585.0	8,588.1	7,817.0	25.4	24.3	-129.92	1,032.7	252.4	361.6	322.7	38.94	9.287	
8,500.0	7,585.0	8,688.1	7,817.0	26.8	25.7	-129.66	1,132.7	250.6	363.6	322.3	41.31	8.801	
8,600.0	7,585.0	8,788.1	7,817.0	28.2	27.2	-129.39	1,232.6	248.9	365.6	321.9	43.76	8.356	
8,700.0	7,585.0	8,888.0	7,817.0	29.7	28.7	-129.14	1,332.6	247.1	367.7	321.4	46.26	7.948	
8,800.0	7,585.0	8,988.0	7,817.0	31.2	30.3	-128.88	1,432.5	245.4	369.7	320.9	48.82	7.573	
8,900.0	7,585.0	9,088.0	7,817.0	32.7	31.9	-128.63	1,532.5	243.6	371.7	320.3	51.42	7.229	
9,000.0	7,585.0	9,187.9	7,817.0	34.3	33.4	-128.38	1,632.4	241.9	373.8	319.7	54.06	6.913	
9,100.0	7,585.0	9,287.9	7,817.0	35.8	35.0	-128.13	1,732.4	240.1	375.8	319.1	56.75	6.623	
9,200.0	7,585.0	9,387.9	7,817.0	37.4	36.7	-127.88	1,832.3	238.4	377.9	318.4	59.47	6.354	
9,300.0	7,585.0	9,487.8	7,817.0	39.0	38.3	-127.64	1,932.3	236.7	380.0	317.7	62.23	6.106	
9,400.0	7,585.0	9,587.8	7,817.0	40.6	39.9	-127.40	2,032.2	234.9	382.0	317.0	65.01	5.877	
9,500.0	7,585.0	9,687.8	7,817.0	42.3	41.6	-127.16	2,132.2	233.2	384.1	316.3	67.82	5.663	
9,600.0	7,585.0	9,787.7	7,817.0	43.9	43.2	-126.93	2,232.1	231.4	386.2	315.5	70.66	5.465	
9,700.0	7,585.0	9,887.7	7,817.0	45.5	44.9	-126.70	2,332.1	229.7	388.3	314.8	73.53	5.281	
9,800.0	7,585.0	9,987.6	7,817.0	47.2	46.6	-126.47	2,432.0	227.9	390.4	314.0	76.42	5.109	
9,900.0	7,585.0	10,087.6	7,817.0	48.9	48.2	-126.24	2,532.0	226.2	392.5	313.2	79.33	4.948	
10,000.0	7,585.0	10,187.6	7,817.0	50.5	49.9	-126.02	2,631.9	224.4	394.6	312.4	82.26	4.797	
10,100.0	7,585.0	10,287.5	7,817.0	52.2	51.6	-125.79	2,731.9	222.7	396.8	311.5	85.21	4.656	
10,200.0	7,585.0	10,387.5	7,817.0	53.9	53.3	-125.57	2,831.8	221.0	398.9	310.7	88.18	4.523	
10,300.0	7,585.0	10,487.5	7,817.0	55.6	55.0	-125.36	2,931.8	219.2	401.0	309.8	91.17	4.399	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,585.0	10,587.4	7,817.0	57.2	56.7	-125.14	3,031.7	217.5	403.2	309.0	94.17	4.281	
10,500.0	7,585.0	10,687.4	7,817.0	58.9	58.4	-124.93	3,131.7	215.7	405.3	308.1	97.19	4.170	
10,600.0	7,585.0	10,787.4	7,817.0	60.6	60.1	-124.72	3,231.6	214.0	407.4	307.2	100.23	4.065	
10,700.0	7,585.0	10,887.3	7,817.0	62.3	61.8	-124.51	3,331.6	212.2	409.6	306.3	103.28	3.966	
10,800.0	7,585.0	10,987.3	7,817.0	64.0	63.5	-124.30	3,431.5	210.5	411.8	305.4	106.35	3.872	
10,900.0	7,585.0	11,087.3	7,817.0	65.7	65.2	-124.10	3,531.5	208.7	413.9	304.5	109.43	3.783	
11,000.0	7,585.0	11,187.2	7,817.0	67.4	67.0	-123.90	3,631.4	207.0	416.1	303.6	112.52	3.698	
11,100.0	7,585.0	11,287.2	7,817.0	69.1	68.7	-123.70	3,731.4	205.3	418.2	302.6	115.60	3.618	
11,200.0	7,585.0	11,387.2	7,817.0	70.8	70.4	-123.58	3,831.4	203.5	419.4	301.0	118.44	3.541	
11,300.0	7,585.0	11,487.2	7,817.0	72.5	72.1	-123.61	3,931.4	201.8	419.2	298.1	121.07	3.462	
11,400.0	7,585.0	11,587.2	7,817.0	74.2	73.8	-123.78	4,031.3	200.0	417.4	294.0	123.49	3.380	
11,500.0	7,585.0	11,687.1	7,817.0	75.9	75.6	-124.09	4,131.2	198.3	414.3	288.6	125.66	3.297	
11,600.0	7,585.0	11,786.9	7,817.0	77.6	77.3	-124.55	4,231.1	196.5	409.7	282.1	127.57	3.211	
11,700.0	7,585.0	11,886.7	7,817.0	79.3	79.0	-125.17	4,330.8	194.8	403.7	274.5	129.17	3.125	
11,800.0	7,585.0	11,986.3	7,817.0	81.0	80.7	-125.96	4,430.3	193.1	396.3	265.9	130.42	3.039	
11,900.0	7,585.0	12,085.7	7,817.0	82.7	82.4	-126.95	4,529.7	191.3	387.6	256.4	131.25	2.953	
12,000.0	7,585.0	12,184.9	7,817.0	84.4	84.2	-128.07	4,629.0	189.6	378.0	246.0	132.04	2.863	
12,100.0	7,585.0	12,284.2	7,817.0	86.1	85.9	-129.23	4,728.2	187.9	368.5	235.7	132.76	2.776	
12,200.0	7,585.0	12,383.5	7,817.0	87.8	87.6	-130.46	4,827.5	186.1	359.1	225.9	133.23	2.695	
12,300.0	7,585.0	12,482.8	7,817.0	89.5	89.3	-131.66	4,926.8	184.4	350.2	216.3	133.88	2.616	
12,400.0	7,585.0	12,582.2	7,817.0	91.2	91.0	-132.74	5,026.2	182.7	342.7	207.9	134.73	2.543	
12,500.0	7,585.0	12,681.9	7,817.0	92.9	92.8	-133.66	5,125.9	180.9	336.5	200.8	135.71	2.480	
12,600.0	7,585.0	12,781.7	7,817.0	94.6	94.5	-134.42	5,225.6	179.2	331.7	194.8	136.91	2.423	
12,700.0	7,585.0	12,881.5	7,817.0	96.3	96.2	-135.00	5,325.5	177.4	328.2	189.9	138.38	2.372	
12,800.0	7,585.0	12,981.5	7,817.0	98.1	98.0	-135.37	5,425.4	175.7	326.0	185.8	140.20	2.325	
12,900.0	7,585.0	13,081.5	7,817.0	99.8	99.7	-135.55	5,525.4	173.9	325.0	182.6	142.43	2.282	
12,931.5	7,585.0	13,113.0	7,817.0	100.4	100.2	-135.56	5,556.9	173.4	325.0	181.7	143.22	2.269	
13,000.0	7,585.0	13,181.5	7,817.0	101.5	101.4	-135.51	5,625.4	172.2	325.2	180.1	145.09	2.242	
13,100.0	7,585.0	13,281.5	7,817.0	103.3	103.2	-135.26	5,725.3	170.5	326.7	178.5	148.23	2.204	
13,200.0	7,585.0	13,381.4	7,817.0	105.0	104.9	-134.81	5,825.3	168.7	329.4	177.5	151.84	2.169	
13,300.0	7,585.0	13,481.2	7,817.0	106.8	106.6	-134.18	5,925.1	167.0	333.1	177.3	155.86	2.137	
13,400.0	7,585.0	13,581.1	7,817.0	108.5	108.4	-133.55	6,024.9	165.2	337.0	177.1	159.94	2.107	
13,500.0	7,585.0	13,681.0	7,817.0	110.2	110.1	-132.92	6,124.8	163.5	340.9	176.9	164.02	2.078	
13,600.0	7,585.0	13,780.8	7,817.0	112.0	111.9	-132.32	6,224.6	161.7	344.9	176.8	168.10	2.052	
13,700.0	7,585.0	13,880.7	7,817.0	113.7	113.6	-131.72	6,324.5	160.0	348.9	176.7	172.18	2.026	
13,800.0	7,585.0	13,980.5	7,817.0	115.5	115.3	-131.14	6,424.3	158.3	352.9	176.6	176.26	2.002	
13,900.0	7,585.0	14,080.4	7,817.0	117.2	117.1	-130.58	6,524.1	156.5	357.0	176.6	180.33	1.980	
14,000.0	7,585.0	14,179.1	7,817.0	119.0	118.8	-130.02	6,622.8	154.7	361.1	176.7	184.38	1.958	
14,100.0	7,585.0	14,275.1	7,817.0	120.7	120.5	-129.40	6,718.8	152.0	366.1	177.5	188.61	1.941	
14,200.0	7,585.0	14,371.0	7,817.0	122.5	122.1	-128.67	6,814.6	148.0	372.1	179.0	193.13	1.927	
14,300.0	7,585.0	14,466.6	7,817.0	124.2	123.8	-127.84	6,910.1	142.7	379.3	181.4	197.91	1.917	
14,400.0	7,585.0	14,562.7	7,817.0	125.9	125.5	-126.93	7,006.0	136.2	387.6	184.7	202.93	1.910	
14,500.0	7,585.0	14,662.1	7,817.0	127.7	127.2	-125.98	7,105.1	129.0	396.4	188.3	208.10	1.905	
14,526.0	7,585.0	14,687.9	7,817.0	128.1	127.7	-125.75	7,130.9	127.1	398.7	189.3	209.43	1.904	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	113.45	-7.3	16.8	18.3				
100.0	100.0	100.0	100.0	0.1	0.1	113.45	-7.3	16.8	18.3	18.0	0.26	69.920	
200.0	200.0	200.0	200.0	0.3	0.3	113.45	-7.3	16.8	18.3	17.7	0.61	29.966	
300.0	300.0	300.0	300.0	0.5	0.5	113.45	-7.3	16.8	18.3	17.3	0.96	19.069	
400.0	400.0	400.0	400.0	0.7	0.7	113.45	-7.3	16.8	18.3	17.0	1.31	13.984	CC, ES
500.0	500.0	499.7	499.7	0.8	0.8	112.44	-7.3	17.7	19.1	17.5	1.66	11.525	
600.0	600.0	599.4	599.3	1.0	1.0	20.23	-7.3	20.3	20.7	18.7	2.01	10.332	
700.0	700.0	699.0	698.9	1.2	1.2	18.71	-7.3	24.6	22.4	20.0	2.36	9.493	
800.0	799.9	798.6	798.3	1.4	1.4	17.40	-7.4	30.7	24.0	21.3	2.71	8.872	
900.0	899.7	898.2	897.5	1.6	1.6	16.27	-7.5	38.4	25.7	22.6	3.06	8.392	
1,000.0	999.4	997.7	996.6	1.8	1.8	15.07	-7.5	47.9	27.7	24.3	3.41	8.117	
1,100.0	1,099.1	1,097.1	1,095.4	2.0	2.1	13.32	-7.6	59.2	31.3	27.5	3.76	8.322	
1,200.0	1,198.8	1,196.5	1,193.9	2.2	2.3	11.38	-7.7	72.1	36.6	32.5	4.11	8.912	
1,300.0	1,298.5	1,296.3	1,292.8	2.4	2.6	9.76	-7.8	85.7	42.7	38.2	4.46	9.575	
1,400.0	1,398.3	1,396.1	1,391.6	2.6	2.9	8.54	-8.0	99.4	48.8	44.0	4.81	10.149	
1,500.0	1,498.0	1,495.9	1,490.5	2.8	3.1	7.60	-8.1	113.1	54.9	49.8	5.16	10.648	
1,600.0	1,597.7	1,595.7	1,589.4	3.0	3.4	6.84	-8.2	126.7	61.0	55.5	5.51	11.086	
1,700.0	1,697.4	1,695.5	1,688.2	3.2	3.7	6.23	-8.3	140.4	67.2	61.3	5.86	11.474	
1,800.0	1,797.1	1,795.3	1,787.1	3.4	4.0	5.71	-8.4	154.1	73.3	67.1	6.20	11.819	
1,900.0	1,896.8	1,895.1	1,886.0	3.7	4.3	5.28	-8.5	167.8	79.5	72.9	6.55	12.128	
2,000.0	1,996.5	1,994.9	1,984.8	3.9	4.6	4.91	-8.6	181.4	85.6	78.7	6.90	12.406	
2,100.0	2,096.2	2,094.7	2,083.7	4.1	4.9	4.58	-8.7	195.1	91.8	84.5	7.25	12.658	
2,200.0	2,196.0	2,194.6	2,182.6	4.3	5.2	4.30	-8.8	208.8	97.9	90.3	7.60	12.888	
2,300.0	2,295.7	2,294.4	2,281.5	4.5	5.4	4.05	-8.9	222.5	104.1	96.1	7.95	13.097	
2,400.0	2,395.4	2,394.2	2,380.3	4.7	5.7	3.83	-9.1	236.1	110.3	102.0	8.30	13.289	
2,500.0	2,495.1	2,494.0	2,479.2	5.0	6.0	3.64	-9.2	249.8	116.4	107.8	8.65	13.466	
2,600.0	2,594.8	2,593.8	2,578.1	5.2	6.3	3.46	-9.3	263.5	122.6	113.6	8.99	13.629	
2,700.0	2,694.5	2,693.6	2,676.9	5.4	6.6	3.30	-9.4	277.2	128.7	119.4	9.34	13.780	
2,800.0	2,794.2	2,793.4	2,775.8	5.6	6.9	3.15	-9.5	290.8	134.9	125.2	9.69	13.920	
2,900.0	2,894.0	2,893.2	2,874.7	5.8	7.2	3.02	-9.6	304.5	141.1	131.0	10.04	14.050	
3,000.0	2,993.7	2,993.0	2,973.5	6.0	7.5	2.90	-9.7	318.2	147.2	136.9	10.39	14.172	
3,100.0	3,093.4	3,092.8	3,072.4	6.3	7.8	2.79	-9.8	331.9	153.4	142.7	10.74	14.286	
3,200.0	3,193.1	3,192.6	3,171.3	6.5	8.1	2.68	-9.9	345.5	159.6	148.5	11.09	14.393	
3,300.0	3,292.8	3,292.5	3,270.1	6.7	8.4	2.59	-10.0	359.2	165.7	154.3	11.44	14.493	
3,400.0	3,392.5	3,392.3	3,369.0	6.9	8.7	2.50	-10.2	372.9	171.9	160.1	11.78	14.588	
3,500.0	3,492.2	3,492.1	3,467.9	7.1	9.0	2.41	-10.3	386.6	178.1	165.9	12.13	14.677	
3,600.0	3,592.0	3,591.9	3,566.7	7.3	9.3	2.34	-10.4	400.2	184.3	171.8	12.48	14.761	
3,700.0	3,691.7	3,691.7	3,665.6	7.6	9.6	2.26	-10.5	413.9	190.4	177.6	12.83	14.840	
3,800.0	3,791.4	3,791.5	3,764.5	7.8	9.9	2.20	-10.6	427.6	196.6	183.4	13.18	14.915	
3,900.0	3,891.1	3,891.3	3,863.3	8.0	10.2	2.13	-10.7	441.3	202.8	189.2	13.53	14.987	
4,000.0	3,990.8	3,991.1	3,962.2	8.2	10.5	2.07	-10.8	454.9	208.9	195.1	13.88	15.055	
4,100.0	4,090.5	4,090.9	4,061.1	8.4	10.7	2.02	-10.9	468.6	215.1	200.9	14.23	15.119	
4,200.0	4,190.2	4,190.7	4,159.9	8.7	11.0	1.96	-11.0	482.3	221.3	206.7	14.58	15.181	
4,300.0	4,290.0	4,290.5	4,258.8	8.9	11.3	1.91	-11.1	495.9	227.4	212.5	14.93	15.239	
4,400.0	4,389.7	4,390.4	4,357.7	9.1	11.6	1.87	-11.3	509.6	233.6	218.3	15.27	15.295	
4,500.0	4,489.4	4,490.2	4,456.5	9.3	11.9	1.82	-11.4	523.3	239.8	224.2	15.62	15.349	
4,600.0	4,589.1	4,590.0	4,555.4	9.5	12.2	1.78	-11.5	537.0	246.0	230.0	15.97	15.400	
4,700.0	4,688.8	4,689.8	4,654.3	9.7	12.5	1.74	-11.6	550.6	252.1	235.8	16.32	15.449	
4,800.0	4,788.5	4,789.6	4,753.2	10.0	12.8	1.70	-11.7	564.3	258.3	241.6	16.67	15.495	
4,900.0	4,888.2	4,889.4	4,852.0	10.2	13.1	1.66	-11.8	578.0	264.5	247.5	17.02	15.540	
5,000.0	4,988.0	4,989.2	4,950.9	10.4	13.4	1.63	-11.9	591.7	270.7	253.3	17.37	15.584	
5,100.0	5,087.7	5,089.0	5,049.8	10.6	13.7	1.59	-12.0	605.3	276.8	259.1	17.72	15.625	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2E-7H-E168 - 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			Offset Wellbore Centre		Distance				Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,187.4	5,188.8	5,148.6	10.8	14.0	1.56	-12.1	619.0	283.0	264.9	18.07	15.665	
5,300.0	5,287.1	5,288.6	5,247.5	11.1	14.3	1.53	-12.3	632.7	289.2	270.8	18.41	15.703	
5,400.0	5,386.8	5,388.5	5,346.4	11.3	14.6	1.50	-12.4	646.4	295.3	276.6	18.76	15.740	
5,500.0	5,486.5	5,488.3	5,445.2	11.5	14.9	1.47	-12.5	660.0	301.5	282.4	19.11	15.776	
5,600.0	5,586.2	5,588.1	5,544.1	11.7	15.2	1.44	-12.6	673.7	307.7	288.2	19.46	15.810	
5,700.0	5,686.0	5,687.9	5,643.0	11.9	15.5	1.42	-12.7	687.4	313.9	294.1	19.81	15.843	
5,800.0	5,785.7	5,787.7	5,741.8	12.2	15.8	1.39	-12.8	701.1	320.0	299.9	20.16	15.875	
5,900.0	5,885.4	5,887.5	5,840.7	12.4	16.1	1.37	-12.9	714.7	326.2	305.7	20.51	15.906	
6,000.0	5,985.1	5,987.3	5,939.6	12.6	16.4	1.34	-13.0	728.4	332.4	311.5	20.86	15.936	
6,100.0	6,084.8	6,087.1	6,038.4	12.8	16.7	1.32	-13.1	742.1	338.6	317.3	21.21	15.965	
6,200.0	6,184.5	6,186.9	6,137.3	13.0	17.0	1.30	-13.2	755.8	344.7	323.2	21.56	15.992	
6,300.0	6,284.2	6,286.7	6,236.2	13.2	17.3	1.28	-13.4	769.4	350.9	329.0	21.90	16.019	
6,400.0	6,384.0	6,386.5	6,335.0	13.5	17.6	1.26	-13.5	783.1	357.1	334.8	22.25	16.046	
6,500.0	6,483.7	6,486.4	6,433.9	13.7	17.9	1.24	-13.6	796.8	363.2	340.6	22.60	16.071	
6,600.0	6,583.4	6,586.2	6,532.8	13.9	18.2	1.22	-13.7	810.5	369.4	346.5	22.95	16.096	
6,700.0	6,683.1	6,686.0	6,631.6	14.1	18.5	1.20	-13.8	824.1	375.6	352.3	23.30	16.119	
6,800.0	6,782.8	6,785.8	6,730.5	14.3	18.8	1.19	-13.9	837.8	381.8	358.1	23.65	16.143	
6,900.0	6,882.5	6,885.6	6,829.4	14.6	19.1	1.17	-14.0	851.5	387.9	363.9	24.00	16.165	
7,000.0	6,982.2	6,985.4	6,928.2	14.8	19.3	1.15	-14.1	865.1	394.1	369.8	24.35	16.187	
7,100.0	7,081.8	7,085.0	7,027.0	15.0	19.6	58.75	-14.2	878.8	400.4	375.7	24.70	16.210	
7,200.0	7,179.3	7,182.6	7,123.6	15.2	19.9	78.62	-14.3	892.2	407.5	382.4	25.10	16.234	
7,300.0	7,271.7	7,275.1	7,215.3	15.5	20.2	87.42	-14.4	904.8	417.7	392.1	25.64	16.293	
7,400.0	7,356.3	7,375.9	7,315.0	15.8	20.5	94.73	-10.4	918.5	433.6	407.2	26.38	16.440	
7,500.0	7,430.5	7,496.5	7,431.3	16.2	20.9	101.33	16.4	933.9	453.0	425.8	27.25	16.628	
7,600.0	7,492.0	7,636.1	7,555.6	16.7	21.3	107.16	77.1	949.5	473.4	445.3	28.12	16.835	
7,700.0	7,539.0	7,799.1	7,677.4	17.4	21.9	112.14	183.6	963.6	491.4	462.4	28.98	16.958	
8,100.0	7,585.0	8,398.5	7,817.0	21.5	26.1	117.75	749.1	968.1	498.4	463.0	35.44	14.064	
8,200.0	7,585.0	8,498.4	7,817.0	22.7	27.1	117.94	849.0	965.4	495.4	457.5	37.82	13.098	
8,300.0	7,585.0	8,598.4	7,817.0	24.0	28.2	118.13	948.9	962.8	492.3	452.0	40.28	12.222	
8,400.0	7,585.0	8,698.3	7,817.0	25.4	29.4	118.33	1,048.8	960.2	489.2	446.4	42.81	11.428	
8,500.0	7,585.0	8,798.3	7,817.0	26.8	30.6	118.52	1,148.8	957.6	486.1	440.7	45.39	10.711	
8,600.0	7,585.0	8,898.2	7,817.0	28.2	31.8	118.72	1,248.7	955.0	483.1	435.1	48.01	10.062	
8,700.0	7,585.0	8,998.1	7,817.0	29.7	33.1	118.92	1,348.6	952.4	480.0	429.3	50.66	9.475	
8,800.0	7,585.0	9,098.1	7,817.0	31.2	34.5	119.12	1,448.5	949.7	476.9	423.6	53.34	8.942	
8,900.0	7,585.0	9,198.0	7,817.0	32.7	35.9	119.33	1,548.4	947.1	473.9	417.9	56.04	8.457	
9,000.0	7,585.0	9,298.0	7,817.0	34.3	37.3	119.53	1,648.3	944.5	470.9	412.1	58.75	8.015	
9,100.0	7,585.0	9,397.9	7,817.0	35.8	38.7	119.74	1,748.2	941.9	467.8	406.4	61.47	7.610	
9,200.0	7,585.0	9,497.8	7,817.0	37.4	40.2	119.96	1,848.1	939.3	464.8	400.6	64.20	7.240	
9,300.0	7,585.0	9,597.8	7,817.0	39.0	41.7	120.17	1,948.0	936.7	461.8	394.8	66.93	6.899	
9,400.0	7,585.0	9,697.7	7,817.0	40.6	43.2	120.39	2,047.9	934.0	458.8	389.1	69.66	6.585	
9,500.0	7,585.0	9,797.7	7,817.0	42.3	44.7	120.62	2,147.8	931.4	455.8	383.4	72.39	6.296	
9,600.0	7,585.0	9,897.6	7,817.0	43.9	46.2	120.84	2,247.7	928.8	452.8	377.6	75.12	6.027	
9,700.0	7,585.0	9,997.5	7,817.0	45.5	47.8	121.07	2,347.6	926.2	449.8	371.9	77.84	5.778	
9,800.0	7,585.0	10,097.5	7,817.0	47.2	49.4	121.30	2,447.5	923.6	446.8	366.2	80.55	5.546	
9,900.0	7,585.0	10,197.4	7,817.0	48.9	51.0	121.53	2,547.4	921.0	443.8	360.5	83.26	5.331	
10,000.0	7,585.0	10,297.3	7,817.0	50.5	52.6	121.77	2,647.3	918.3	440.8	354.9	85.95	5.129	
10,100.0	7,585.0	10,397.3	7,817.0	52.2	54.2	122.01	2,747.2	915.7	437.9	349.2	88.63	4.940	
10,200.0	7,585.0	10,497.2	7,817.0	53.9	55.8	122.25	2,847.1	913.1	434.9	343.6	91.30	4.764	
10,300.0	7,585.0	10,597.2	7,817.0	55.6	57.4	122.50	2,947.0	910.5	432.0	338.0	93.95	4.598	
10,400.0	7,585.0	10,697.1	7,817.0	57.2	59.0	122.75	3,046.9	907.9	429.0	332.4	96.59	4.442	
10,500.0	7,585.0	10,797.0	7,817.0	58.9	60.6	123.01	3,146.8	905.3	426.1	326.9	99.21	4.295	
10,600.0	7,585.0	10,897.0	7,817.0	60.6	62.3	123.26	3,246.8	902.7	423.2	321.4	101.82	4.156	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2E-7H-E168 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,700.0	7,585.0	10,996.9	7,817.0	62.3	63.9	123.52	3,346.7	900.0	420.3	315.9	104.40	4.025	
10,800.0	7,585.0	11,096.9	7,817.0	64.0	65.6	123.79	3,446.6	897.4	417.3	310.4	106.97	3.902	
10,900.0	7,585.0	11,196.8	7,817.0	65.7	67.2	124.06	3,546.5	894.8	414.5	304.9	109.51	3.785	
11,000.0	7,585.0	11,296.7	7,817.0	67.4	68.9	124.33	3,646.4	892.2	411.6	299.5	112.04	3.673	
11,100.0	7,585.0	11,396.7	7,817.0	69.1	70.6	124.60	3,746.3	889.6	408.7	294.2	114.48	3.570	
11,200.0	7,585.0	11,496.7	7,817.0	70.8	72.3	124.77	3,846.2	887.0	406.8	290.1	116.73	3.485	
11,281.5	7,585.0	11,578.2	7,817.0	72.2	73.6	124.82	3,927.7	884.8	406.3	287.7	118.67	3.424	
11,300.0	7,585.0	11,596.6	7,817.0	72.5	73.9	124.81	3,946.2	884.3	406.4	287.2	119.12	3.411	
11,400.0	7,585.0	11,696.6	7,817.0	74.2	75.6	124.72	4,046.1	881.7	407.4	285.7	121.66	3.348	
11,500.0	7,585.0	11,796.6	7,817.0	75.9	77.3	124.50	4,146.1	879.1	409.8	285.4	124.35	3.295	
11,600.0	7,585.0	11,896.5	7,817.0	77.6	79.0	124.16	4,245.9	876.5	413.6	286.5	127.19	3.252	
11,700.0	7,585.0	11,996.3	7,817.0	79.3	80.7	123.69	4,345.7	873.9	419.0	288.8	130.17	3.219	
11,800.0	7,585.0	12,095.9	7,817.0	81.0	82.3	123.12	4,445.3	871.3	425.8	292.5	133.28	3.195	
11,900.0	7,585.0	12,195.4	7,817.0	82.7	84.0	122.45	4,544.8	868.7	434.1	297.6	136.51	3.180	
12,000.0	7,585.0	12,294.8	7,817.0	84.4	85.7	121.69	4,644.1	866.1	443.7	303.4	140.31	3.162	
12,100.0	7,585.0	12,394.2	7,817.0	86.1	87.4	120.94	4,743.4	863.5	453.4	309.0	144.33	3.141	
12,200.0	7,585.0	12,493.5	7,817.0	87.8	89.1	120.22	4,842.8	860.9	463.1	314.8	148.33	3.122	
12,300.0	7,585.0	12,592.9	7,817.0	89.5	90.8	119.53	4,942.1	858.3	472.6	319.8	152.78	3.093	
12,400.0	7,585.0	12,692.5	7,817.0	91.2	92.5	118.94	5,041.7	855.6	480.7	323.4	157.29	3.056	
12,500.0	7,585.0	12,792.2	7,817.0	92.9	94.2	118.48	5,141.3	853.0	487.3	325.7	161.62	3.015	
12,600.0	7,585.0	12,892.0	7,817.0	94.6	95.9	118.14	5,241.1	850.4	492.4	326.6	165.75	2.971	
12,700.0	7,585.0	12,992.0	7,817.0	96.3	97.6	117.90	5,341.0	847.8	496.0	326.3	169.70	2.923	
12,800.0	7,585.0	13,091.9	7,817.0	98.1	99.3	117.77	5,441.0	845.2	498.0	324.5	173.46	2.871	
12,900.0	7,585.0	13,191.9	7,817.0	99.8	101.0	117.74	5,540.9	842.6	498.5	321.5	177.02	2.816	
13,000.0	7,585.0	13,291.9	7,817.0	101.5	102.7	117.81	5,640.9	840.0	497.4	317.0	180.38	2.758	
13,100.0	7,585.0	13,391.9	7,817.0	103.3	104.5	117.98	5,740.8	837.3	494.8	311.3	183.51	2.696	
13,200.0	7,585.0	13,491.8	7,817.0	105.0	106.2	118.25	5,840.7	834.7	490.7	304.3	186.41	2.632	
13,300.0	7,585.0	13,591.6	7,817.0	106.8	107.9	118.60	5,940.4	832.1	485.3	296.3	188.97	2.568	
13,400.0	7,585.0	13,691.4	7,817.0	108.5	109.6	118.96	6,040.2	829.5	479.8	288.4	191.41	2.507	
13,500.0	7,585.0	13,791.2	7,817.0	110.2	111.3	119.33	6,140.0	826.9	474.4	280.6	193.80	2.448	
13,600.0	7,585.0	13,891.0	7,817.0	112.0	113.0	119.70	6,239.7	824.3	468.9	272.8	196.15	2.391	
13,700.0	7,585.0	13,990.8	7,817.0	113.7	114.8	120.08	6,339.5	821.7	463.5	265.1	198.45	2.336	
13,800.0	7,585.0	14,090.6	7,817.0	115.5	116.5	120.47	6,439.3	819.0	458.1	257.4	200.71	2.283	
13,900.0	7,585.0	14,190.4	7,817.0	117.2	118.2	120.87	6,539.1	816.4	452.8	249.9	202.91	2.231	
14,000.0	7,585.0	14,290.2	7,817.0	119.0	119.9	121.28	6,638.8	813.8	447.4	242.4	205.06	2.182	
14,100.0	7,585.0	14,390.0	7,817.0	120.7	121.6	121.70	6,738.6	811.2	442.1	234.9	207.16	2.134	
14,200.0	7,585.0	14,489.8	7,817.0	122.5	123.4	122.13	6,838.4	808.6	436.8	227.6	209.19	2.088	
14,300.0	7,585.0	14,589.6	7,817.0	124.2	125.1	122.57	6,938.1	806.0	431.5	220.3	211.17	2.043	
14,400.0	7,585.0	14,689.4	7,817.0	125.9	126.8	123.03	7,037.9	803.4	426.3	213.2	213.08	2.000	
14,500.0	7,585.0	14,789.2	7,817.0	127.7	128.5	123.49	7,137.7	800.8	421.0	206.1	214.92	1.959	
14,526.0	7,585.0	14,809.6	7,817.0	128.1	128.9	123.59	7,158.1	800.2	419.7	204.3	215.37	1.949	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2F-7H-E168 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	19.6	19.6				
100.0	100.0	101.0	101.0	0.1	0.1	90.00	0.0	19.6	19.6	19.3	0.26	74.339	
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	19.6	19.6	19.0	0.61	31.981	
266.3	266.3	267.3	267.3	0.4	0.4	90.00	0.0	19.6	19.6	18.7	0.84	23.209	CC
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	19.6	19.6	18.6	0.96	20.372	ES
400.0	400.0	400.7	400.6	0.7	0.7	89.51	0.2	20.5	20.5	19.2	1.31	15.610	
500.0	500.0	500.2	500.2	0.8	0.8	88.29	0.7	23.0	23.0	21.4	1.66	13.855	
600.0	600.0	599.8	599.6	1.0	1.0	-3.76	1.5	27.3	26.5	24.5	2.01	13.197	
700.0	700.0	699.2	698.9	1.2	1.2	-5.69	2.7	33.2	29.9	27.6	2.35	12.710	
800.0	799.9	798.6	798.0	1.4	1.4	-7.83	4.3	40.9	33.4	30.7	2.70	12.361	
900.0	899.7	897.9	896.8	1.6	1.7	-10.11	6.1	50.2	36.9	33.9	3.05	12.108	
1,000.0	999.4	997.2	995.4	1.8	1.9	-12.37	8.3	61.1	40.9	37.5	3.40	12.033	SF
1,100.0	1,099.1	1,096.2	1,093.7	2.0	2.2	-14.16	10.8	73.8	46.6	42.8	3.75	12.416	
1,200.0	1,198.8	1,195.1	1,191.4	2.2	2.5	-15.44	13.7	88.0	54.0	49.9	4.10	13.157	
1,300.0	1,298.5	1,293.7	1,288.7	2.4	2.8	-16.28	16.9	103.9	63.1	58.7	4.46	14.168	
1,400.0	1,398.3	1,392.4	1,385.9	2.6	3.1	-16.80	20.3	121.2	73.8	69.0	4.81	15.349	
1,500.0	1,498.0	1,491.8	1,483.6	2.8	3.4	-17.18	23.9	139.0	84.8	79.6	5.17	16.414	
1,600.0	1,597.7	1,591.2	1,581.3	3.0	3.8	-17.46	27.4	156.7	95.8	90.2	5.52	17.342	
1,700.0	1,697.4	1,690.6	1,679.1	3.2	4.1	-17.69	31.0	174.5	106.7	100.9	5.88	18.157	
1,800.0	1,797.1	1,790.0	1,776.8	3.4	4.5	-17.88	34.5	192.2	117.7	111.5	6.24	18.877	
1,900.0	1,896.8	1,889.4	1,874.5	3.7	4.8	-18.03	38.1	209.9	128.7	122.1	6.59	19.519	
2,000.0	1,996.5	1,988.8	1,972.3	3.9	5.2	-18.17	41.6	227.7	139.7	132.7	6.95	20.094	
2,100.0	2,096.2	2,088.2	2,070.0	4.1	5.6	-18.28	45.2	245.4	150.6	143.3	7.31	20.613	
2,200.0	2,196.0	2,187.6	2,167.8	4.3	5.9	-18.37	48.7	263.1	161.6	153.9	7.67	21.083	
2,300.0	2,295.7	2,287.0	2,265.5	4.5	6.3	-18.46	52.3	280.9	172.6	164.6	8.02	21.510	
2,400.0	2,395.4	2,386.4	2,363.2	4.7	6.6	-18.53	55.8	298.6	183.6	175.2	8.38	21.901	
2,500.0	2,495.1	2,485.8	2,461.0	5.0	7.0	-18.60	59.4	316.4	194.5	185.8	8.74	22.260	
2,600.0	2,594.8	2,585.2	2,558.7	5.2	7.3	-18.65	62.9	334.1	205.5	196.4	9.10	22.590	
2,700.0	2,694.5	2,684.6	2,656.4	5.4	7.7	-18.71	66.5	351.8	216.5	207.0	9.46	22.895	
2,800.0	2,794.2	2,784.0	2,754.2	5.6	8.1	-18.76	70.0	369.6	227.5	217.7	9.81	23.177	
2,900.0	2,894.0	2,883.4	2,851.9	5.8	8.4	-18.80	73.6	387.3	238.4	228.3	10.17	23.440	
3,000.0	2,993.7	2,982.8	2,949.6	6.0	8.8	-18.84	77.1	405.0	249.4	238.9	10.53	23.684	
3,100.0	3,093.4	3,082.2	3,047.4	6.3	9.1	-18.87	80.7	422.8	260.4	249.5	10.89	23.912	
3,200.0	3,193.1	3,181.6	3,145.1	6.5	9.5	-18.91	84.2	440.5	271.4	260.1	11.25	24.126	
3,300.0	3,292.8	3,281.0	3,242.8	6.7	9.9	-18.94	87.8	458.3	282.4	270.7	11.61	24.326	
3,400.0	3,392.5	3,380.4	3,340.6	6.9	10.2	-18.97	91.3	476.0	293.3	281.4	11.97	24.514	
3,500.0	3,492.2	3,479.8	3,438.3	7.1	10.6	-18.99	94.9	493.7	304.3	292.0	12.32	24.692	
3,600.0	3,592.0	3,579.1	3,536.1	7.3	11.0	-19.02	98.4	511.5	315.3	302.6	12.68	24.859	
3,700.0	3,691.7	3,678.5	3,633.8	7.6	11.3	-19.04	102.0	529.2	326.3	313.2	13.04	25.016	
3,800.0	3,791.4	3,777.9	3,731.5	7.8	11.7	-19.06	105.5	546.9	337.2	323.8	13.40	25.166	
3,900.0	3,891.1	3,877.3	3,829.3	8.0	12.0	-19.08	109.1	564.7	348.2	334.5	13.76	25.307	
4,000.0	3,990.8	3,976.7	3,927.0	8.2	12.4	-19.10	112.6	582.4	359.2	345.1	14.12	25.442	
4,100.0	4,090.5	4,076.1	4,024.7	8.4	12.8	-19.12	116.2	600.2	370.2	355.7	14.48	25.569	
4,200.0	4,190.2	4,175.5	4,122.5	8.7	13.1	-19.13	119.7	617.9	381.2	366.3	14.84	25.690	
4,300.0	4,290.0	4,274.9	4,220.2	8.9	13.5	-19.15	123.3	635.6	392.1	376.9	15.20	25.806	
4,400.0	4,389.7	4,374.3	4,317.9	9.1	13.9	-19.16	126.8	653.4	403.1	387.6	15.55	25.916	
4,500.0	4,489.4	4,473.7	4,415.7	9.3	14.2	-19.18	130.4	671.1	414.1	398.2	15.91	26.021	
4,600.0	4,589.1	4,573.1	4,513.4	9.5	14.6	-19.19	133.9	688.8	425.1	408.8	16.27	26.122	
4,700.0	4,688.8	4,672.5	4,611.1	9.7	15.0	-19.20	137.5	706.6	436.0	419.4	16.63	26.218	
4,800.0	4,788.5	4,771.9	4,708.9	10.0	15.3	-19.22	141.0	724.3	447.0	430.0	16.99	26.310	
4,900.0	4,888.2	4,871.3	4,806.6	10.2	15.7	-19.23	144.6	742.1	458.0	440.7	17.35	26.399	
5,000.0	4,988.0	4,970.7	4,904.4	10.4	16.0	-19.24	148.1	759.8	469.0	451.3	17.71	26.483	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2F-7H-E168 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,087.7	5,070.1	5,002.1	10.6	16.4	-19.25	151.7	777.5	480.0	461.9	18.07	26.565	
5,200.0	5,187.4	5,169.5	5,099.8	10.8	16.8	-19.26	155.2	795.3	490.9	472.5	18.43	26.643	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2G-7H-E168 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	106.13	-7.3	25.2	26.2				
100.0	100.0	101.0	101.0	0.1	0.1	106.13	-7.3	25.2	26.2	26.0	0.26	99.496	
200.0	200.0	201.0	201.0	0.3	0.3	106.13	-7.3	25.2	26.2	25.6	0.61	42.803	
232.0	232.0	233.0	233.0	0.4	0.4	106.13	-7.3	25.2	26.2	25.5	0.72	36.206	CC
300.0	300.0	300.8	300.8	0.5	0.5	106.08	-7.3	25.4	26.4	25.5	0.96	27.510	ES
400.0	400.0	400.3	400.3	0.7	0.7	105.70	-7.6	27.1	28.2	26.9	1.31	21.493	
500.0	500.0	499.7	499.6	0.8	0.8	105.08	-8.2	30.5	31.7	30.0	1.67	18.990	
600.0	600.0	599.0	598.8	1.0	1.0	14.27	-9.1	35.7	36.0	34.0	2.01	17.962	
700.0	700.0	698.3	697.8	1.2	1.2	14.37	-10.3	42.4	40.4	38.1	2.35	17.175	
800.0	799.9	797.4	796.6	1.4	1.5	14.81	-11.8	50.9	44.9	42.2	2.70	16.601	
900.0	899.7	896.5	895.2	1.6	1.7	15.51	-13.6	61.1	49.3	46.3	3.05	16.168	
1,000.0	999.4	995.5	993.4	1.8	1.9	16.28	-15.7	72.9	54.2	50.8	3.40	15.934	SF
1,100.0	1,099.1	1,094.3	1,091.3	2.0	2.2	16.74	-18.1	86.3	60.7	57.0	3.76	16.172	
1,200.0	1,198.8	1,192.9	1,188.6	2.2	2.5	16.93	-20.7	101.4	69.0	64.8	4.11	16.783	
1,300.0	1,298.5	1,291.1	1,285.4	2.4	2.9	16.92	-23.7	118.1	78.9	74.4	4.46	17.678	
1,400.0	1,398.3	1,389.0	1,381.5	2.6	3.2	16.77	-26.9	136.3	90.5	85.7	4.81	18.795	
1,500.0	1,498.0	1,486.5	1,476.9	2.8	3.6	16.54	-30.4	156.1	103.8	98.6	5.16	20.089	
1,600.0	1,597.7	1,583.5	1,571.5	3.0	4.0	16.27	-34.1	177.3	118.7	113.2	5.51	21.526	
1,700.0	1,697.4	1,680.0	1,665.2	3.2	4.4	15.97	-38.1	200.0	135.3	129.5	5.86	23.079	
1,800.0	1,797.1	1,775.9	1,757.9	3.4	4.9	15.68	-42.4	224.1	153.6	147.4	6.21	24.728	
1,900.0	1,896.8	1,872.0	1,850.4	3.7	5.4	15.38	-46.8	249.7	173.4	166.9	6.56	26.444	
2,000.0	1,996.5	1,970.5	1,945.2	3.9	5.9	14.77	-50.3	276.6	193.5	186.6	6.91	28.011	
2,100.0	2,096.2	2,069.1	2,040.0	4.1	6.4	13.82	-52.1	303.6	213.4	206.1	7.26	29.401	
2,200.0	2,196.0	2,167.7	2,134.8	4.3	6.9	12.61	-52.2	330.7	233.0	225.4	7.60	30.650	
2,300.0	2,295.7	2,265.7	2,229.0	4.5	7.3	11.35	-51.3	357.6	252.5	244.6	7.94	31.798	
2,400.0	2,395.4	2,363.6	2,323.1	4.7	7.8	10.28	-50.4	384.6	272.2	263.9	8.28	32.863	
2,500.0	2,495.1	2,461.6	2,417.3	5.0	8.4	9.35	-49.4	411.6	291.9	283.3	8.62	33.850	
2,600.0	2,594.8	2,559.5	2,511.4	5.2	8.9	8.54	-48.5	438.6	311.7	302.7	8.96	34.768	
2,700.0	2,694.5	2,657.4	2,605.5	5.4	9.4	7.82	-47.6	465.6	331.5	322.2	9.31	35.623	
2,800.0	2,794.2	2,755.4	2,699.7	5.6	9.9	7.18	-46.6	492.5	351.4	341.7	9.65	36.421	
2,900.0	2,894.0	2,853.3	2,793.8	5.8	10.4	6.62	-45.7	519.5	371.3	361.3	9.99	37.167	
3,000.0	2,993.7	2,951.2	2,888.0	6.0	10.9	6.11	-44.7	546.5	391.3	380.9	10.33	37.865	
3,100.0	3,093.4	3,049.2	2,982.1	6.3	11.4	5.65	-43.8	573.5	411.3	400.6	10.68	38.521	
3,200.0	3,193.1	3,147.1	3,076.2	6.5	11.9	5.23	-42.8	600.4	431.3	420.2	11.02	39.137	
3,300.0	3,292.8	3,250.3	3,175.5	6.7	12.4	4.81	-41.7	628.5	450.9	439.5	11.37	39.652	
3,400.0	3,392.5	3,356.6	3,278.3	6.9	12.9	4.35	-39.7	655.8	469.0	457.2	11.73	39.982	
3,500.0	3,492.2	3,463.6	3,382.1	7.1	13.4	3.83	-36.9	681.4	485.3	473.2	12.09	40.149	
3,600.0	3,592.0	3,571.1	3,486.8	7.3	13.9	3.27	-33.3	705.4	500.0	487.5	12.45	40.168	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2H-7H-E168 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	30.8	30.8				
100.0	100.0	101.0	101.0	0.1	0.1	90.00	0.0	30.8	30.8	30.5	0.26	116.818	
166.3	166.3	167.3	167.3	0.2	0.2	90.00	0.0	30.8	30.8	30.3	0.50	62.186	CC
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	30.8	30.8	30.2	0.61	50.255	ES
300.0	300.0	300.4	300.4	0.5	0.5	90.00	0.0	31.7	31.7	30.7	0.96	32.933	
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	34.3	34.3	33.0	1.32	26.071	
500.0	500.0	499.1	499.0	0.8	0.8	90.00	0.0	38.6	38.6	37.0	1.68	23.054	
600.0	600.0	598.3	597.9	1.0	1.0	-0.42	0.0	44.6	43.9	41.9	2.00	21.883	
700.0	700.0	697.3	696.7	1.2	1.3	-0.44	0.0	52.4	49.1	46.7	2.35	20.861	
800.0	799.9	796.3	795.2	1.4	1.5	-0.47	0.0	61.8	54.2	51.5	2.70	20.098	
900.0	899.7	895.2	893.5	1.6	1.7	-0.51	0.0	72.9	59.4	56.3	3.04	19.506	
1,000.0	999.4	994.0	991.4	1.8	2.0	-0.54	0.0	85.7	64.9	61.5	3.39	19.139	SF
1,100.0	1,099.1	1,092.5	1,088.9	2.0	2.3	-0.57	0.0	100.2	72.1	68.3	3.74	19.272	
1,200.0	1,198.8	1,190.8	1,185.9	2.2	2.6	-0.59	0.0	116.2	80.9	76.8	4.09	19.804	
1,300.0	1,298.5	1,288.8	1,282.3	2.4	3.0	-0.61	0.0	133.9	91.5	87.1	4.43	20.640	
1,400.0	1,398.3	1,386.4	1,377.9	2.6	3.3	-0.61	0.0	153.2	103.7	99.0	4.78	21.713	
1,500.0	1,498.0	1,483.5	1,472.8	2.8	3.7	-0.62	0.0	174.0	117.7	112.6	5.12	22.974	
1,600.0	1,597.7	1,580.2	1,566.9	3.0	4.2	-0.61	0.0	196.2	133.3	127.8	5.47	24.385	
1,700.0	1,697.4	1,676.3	1,660.0	3.2	4.6	-0.61	0.0	219.9	150.6	144.8	5.81	25.920	
1,800.0	1,797.1	1,771.8	1,752.2	3.4	5.1	-0.61	0.0	245.0	169.5	163.4	6.15	27.556	
1,900.0	1,896.8	1,866.7	1,843.3	3.7	5.6	-0.60	0.0	271.5	190.1	183.6	6.49	29.276	
2,000.0	1,996.5	1,961.7	1,934.1	3.9	6.1	-0.60	0.0	299.5	212.2	205.3	6.83	31.054	
2,100.0	2,096.2	2,059.1	2,027.1	4.1	6.6	-0.59	0.0	328.6	234.8	227.6	7.18	32.710	
2,200.0	2,196.0	2,156.6	2,120.0	4.3	7.2	-0.59	0.0	357.7	257.4	249.8	7.52	34.216	
2,300.0	2,295.7	2,254.0	2,213.0	4.5	7.7	-0.58	0.0	386.8	279.9	272.1	7.87	35.589	
2,400.0	2,395.4	2,351.4	2,306.0	4.7	8.2	-0.58	0.0	415.9	302.5	294.3	8.21	36.848	
2,500.0	2,495.1	2,448.8	2,398.9	5.0	8.8	-0.58	0.0	445.1	325.1	316.6	8.55	38.006	
2,600.0	2,594.8	2,546.2	2,491.9	5.2	9.3	-0.58	0.0	474.2	347.7	338.8	8.90	39.075	
2,700.0	2,694.5	2,643.6	2,584.8	5.4	9.9	-0.57	0.0	503.3	370.3	361.1	9.24	40.064	
2,800.0	2,794.2	2,741.0	2,677.8	5.6	10.4	-0.57	0.0	532.4	392.9	383.3	9.59	40.982	
2,900.0	2,894.0	2,838.5	2,770.8	5.8	11.0	-0.57	0.0	561.5	415.5	405.6	9.93	41.837	
3,000.0	2,993.7	2,935.9	2,863.7	6.0	11.5	-0.57	0.0	590.6	438.1	427.8	10.28	42.635	
3,100.0	3,093.4	3,033.3	2,956.7	6.3	12.1	-0.57	0.0	619.8	460.7	450.1	10.62	43.381	
3,200.0	3,193.1	3,130.7	3,049.6	6.5	12.6	-0.57	0.0	648.9	483.3	472.3	10.96	44.080	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-95.56	-7.9	-80.8	81.2				
100.0	100.0	98.0	98.0	0.1	0.1	-95.56	-7.9	-80.8	81.1	80.9	0.26	313.097	
200.0	200.0	198.0	198.0	0.3	0.3	-95.56	-7.9	-80.8	81.1	80.5	0.61	133.606	CC, ES
300.0	300.0	297.2	297.2	0.5	0.5	-95.09	-7.2	-81.3	81.6	80.7	0.96	85.451	
400.0	400.0	396.3	396.3	0.7	0.7	-93.68	-5.3	-83.0	83.2	81.9	1.30	63.740	
500.0	500.0	495.3	495.2	0.8	0.8	-91.43	-2.1	-85.8	85.8	84.2	1.66	51.787	
600.0	600.0	594.1	593.8	1.0	1.0	-178.93	2.3	-89.7	90.7	88.7	2.02	44.883	
700.0	700.0	692.5	691.9	1.2	1.2	-175.69	8.1	-94.7	98.7	96.3	2.38	41.425	
800.0	799.9	790.3	789.3	1.4	1.5	-172.47	15.0	-100.8	110.0	107.2	2.75	40.050	
900.0	899.7	888.0	886.4	1.6	1.7	-169.51	23.2	-107.9	124.5	121.4	3.11	40.049	SF
1,000.0	999.4	986.5	984.2	1.8	2.0	-167.18	31.7	-115.3	141.0	137.5	3.47	40.569	
1,100.0	1,099.1	1,085.0	1,082.1	2.0	2.2	-165.36	40.2	-122.7	157.7	153.9	3.84	41.057	
1,200.0	1,198.8	1,183.5	1,179.9	2.2	2.5	-163.88	48.7	-130.2	174.5	170.3	4.21	41.491	
1,300.0	1,298.5	1,282.0	1,277.7	2.4	2.7	-162.67	57.2	-137.6	191.5	186.9	4.57	41.877	
1,400.0	1,398.3	1,380.5	1,375.6	2.6	3.0	-161.65	65.7	-145.0	208.5	203.6	4.94	42.219	
1,500.0	1,498.0	1,478.9	1,473.4	2.8	3.2	-160.79	74.2	-152.4	225.6	220.3	5.30	42.524	
1,600.0	1,597.7	1,577.4	1,571.2	3.0	3.5	-160.05	82.7	-159.9	242.7	237.0	5.67	42.796	
1,700.0	1,697.4	1,675.9	1,669.1	3.2	3.7	-159.40	91.2	-167.3	259.8	253.8	6.04	43.040	
1,800.0	1,797.1	1,774.4	1,766.9	3.4	4.0	-158.84	99.8	-174.7	277.0	270.6	6.40	43.260	
1,900.0	1,896.8	1,872.9	1,864.7	3.7	4.3	-158.34	108.3	-182.2	294.2	287.4	6.77	43.458	
2,000.0	1,996.5	1,971.3	1,962.5	3.9	4.5	-157.90	116.8	-189.6	311.4	304.3	7.14	43.638	
2,100.0	2,096.2	2,069.8	2,060.4	4.1	4.8	-157.50	125.3	-197.0	328.6	321.1	7.50	43.802	
2,200.0	2,196.0	2,168.3	2,158.2	4.3	5.0	-157.14	133.8	-204.5	345.9	338.0	7.87	43.951	
2,300.0	2,295.7	2,266.8	2,256.0	4.5	5.3	-156.82	142.3	-211.9	363.1	354.9	8.24	44.089	
2,400.0	2,395.4	2,365.3	2,353.9	4.7	5.6	-156.53	150.8	-219.3	380.4	371.8	8.60	44.215	
2,500.0	2,495.1	2,463.7	2,451.7	5.0	5.8	-156.26	159.3	-226.8	397.6	388.7	8.97	44.332	
2,600.0	2,594.8	2,562.2	2,549.5	5.2	6.1	-156.01	167.8	-234.2	414.9	405.6	9.34	44.439	
2,700.0	2,694.5	2,660.7	2,647.4	5.4	6.3	-155.79	176.3	-241.6	432.2	422.5	9.70	44.540	
2,800.0	2,794.2	2,759.2	2,745.2	5.6	6.6	-155.58	184.9	-249.1	449.5	439.4	10.07	44.633	
2,900.0	2,894.0	2,857.7	2,843.0	5.8	6.9	-155.38	193.4	-256.5	466.8	456.4	10.44	44.719	
3,000.0	2,993.7	2,956.1	2,940.8	6.0	7.1	-155.20	201.9	-263.9	484.1	473.3	10.81	44.801	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-91.43	-1.9	-75.7	75.8				
100.0	100.0	98.0	98.0	0.1	0.1	-91.43	-1.9	-75.7	75.8	75.5	0.26	292.306	
200.0	200.0	198.0	198.0	0.3	0.3	-91.43	-1.9	-75.7	75.8	75.2	0.61	124.734	
300.0	300.0	298.0	298.0	0.5	0.5	-91.43	-1.9	-75.7	75.8	74.8	0.96	79.211	CC
400.0	400.0	397.7	397.7	0.7	0.7	-90.82	-1.1	-76.0	76.0	74.7	1.30	58.219	ES
500.0	500.0	497.3	497.2	0.8	0.8	-88.97	1.4	-76.7	76.7	75.0	1.65	46.372	
600.0	600.0	596.7	596.6	1.0	1.0	-176.41	5.5	-77.8	78.9	76.9	2.02	39.160	
700.0	700.0	695.9	695.6	1.2	1.2	-172.66	11.3	-79.5	83.8	81.4	2.38	35.203	
800.0	799.9	794.8	794.2	1.4	1.4	-168.57	18.6	-81.6	91.5	88.7	2.75	33.240	
900.0	899.7	893.9	892.9	1.6	1.6	-164.77	27.2	-84.0	101.8	98.7	3.13	32.583	
1,000.0	999.4	993.0	991.6	1.8	1.9	-161.88	35.8	-86.5	113.9	110.4	3.50	32.516	SF
1,100.0	1,099.1	1,092.1	1,090.3	2.0	2.1	-159.57	44.4	-89.0	126.3	122.4	3.88	32.529	
1,200.0	1,198.8	1,191.2	1,189.0	2.2	2.3	-157.68	52.9	-91.4	138.8	134.5	4.26	32.572	
1,300.0	1,298.5	1,290.4	1,287.7	2.4	2.5	-156.10	61.5	-93.9	151.4	146.8	4.64	32.630	
1,400.0	1,398.3	1,389.5	1,386.4	2.6	2.8	-154.76	70.1	-96.3	164.2	159.2	5.02	32.694	
1,500.0	1,498.0	1,488.6	1,485.2	2.8	3.0	-153.62	78.7	-98.8	177.0	171.6	5.40	32.759	
1,600.0	1,597.7	1,587.7	1,583.9	3.0	3.2	-152.63	87.3	-101.2	189.9	184.1	5.79	32.824	
1,700.0	1,697.4	1,686.8	1,682.6	3.2	3.4	-151.77	95.9	-103.7	202.8	196.7	6.17	32.886	
1,800.0	1,797.1	1,785.9	1,781.3	3.4	3.7	-151.01	104.5	-106.1	215.8	209.3	6.55	32.945	
1,900.0	1,896.8	1,885.1	1,880.0	3.7	3.9	-150.34	113.1	-108.6	228.8	221.9	6.93	33.001	
2,000.0	1,996.5	1,984.2	1,978.7	3.9	4.1	-149.74	121.6	-111.0	241.9	234.5	7.32	33.054	
2,100.0	2,096.2	2,083.3	2,077.4	4.1	4.4	-149.20	130.2	-113.5	254.9	247.2	7.70	33.103	
2,200.0	2,196.0	2,182.4	2,176.1	4.3	4.6	-148.71	138.8	-115.9	268.0	259.9	8.08	33.149	
2,300.0	2,295.7	2,281.5	2,274.9	4.5	4.8	-148.27	147.4	-118.4	281.1	272.6	8.47	33.192	
2,400.0	2,395.4	2,380.6	2,373.6	4.7	5.1	-147.87	156.0	-120.9	294.2	285.4	8.85	33.232	
2,500.0	2,495.1	2,479.8	2,472.3	5.0	5.3	-147.50	164.6	-123.3	307.3	298.1	9.24	33.270	
2,600.0	2,594.8	2,578.9	2,571.0	5.2	5.5	-147.16	173.2	-125.8	320.5	310.9	9.62	33.306	
2,700.0	2,694.5	2,678.0	2,669.7	5.4	5.8	-146.85	181.8	-128.2	333.6	323.6	10.01	33.339	
2,800.0	2,794.2	2,777.1	2,768.4	5.6	6.0	-146.57	190.3	-130.7	346.8	336.4	10.39	33.370	
2,900.0	2,894.0	2,876.2	2,867.1	5.8	6.2	-146.30	198.9	-133.1	359.9	349.2	10.78	33.400	
3,000.0	2,993.7	2,975.3	2,965.9	6.0	6.4	-146.05	207.5	-135.6	373.1	361.9	11.16	33.428	
3,100.0	3,093.4	3,074.5	3,064.6	6.3	6.7	-145.82	216.1	-138.0	386.3	374.7	11.55	33.454	
3,200.0	3,193.1	3,173.6	3,163.3	6.5	6.9	-145.61	224.7	-140.5	399.5	387.5	11.93	33.479	
3,300.0	3,292.8	3,272.7	3,262.0	6.7	7.1	-145.40	233.3	-142.9	412.7	400.3	12.32	33.502	
3,400.0	3,392.5	3,371.8	3,360.7	6.9	7.4	-145.21	241.9	-145.4	425.9	413.1	12.70	33.525	
3,500.0	3,492.2	3,470.9	3,459.4	7.1	7.6	-145.04	250.5	-147.9	439.0	426.0	13.09	33.546	
3,600.0	3,592.0	3,570.0	3,558.1	7.3	7.8	-144.87	259.1	-150.3	452.2	438.8	13.47	33.566	
3,700.0	3,691.7	3,669.1	3,656.8	7.6	8.1	-144.71	267.6	-152.8	465.5	451.6	13.86	33.585	
3,800.0	3,791.4	3,768.3	3,755.6	7.8	8.3	-144.56	276.2	-155.2	478.7	464.4	14.24	33.603	
3,900.0	3,891.1	3,867.4	3,854.3	8.0	8.5	-144.42	284.8	-157.7	491.9	477.2	14.63	33.620	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-96.38	-7.9	-70.8	71.2				
100.0	100.0	98.0	98.0	0.1	0.1	-96.38	-7.9	-70.8	71.2	70.9	0.26	274.743	
200.0	200.0	198.0	198.0	0.3	0.3	-96.38	-7.9	-70.8	71.2	70.6	0.61	117.240	
300.0	300.0	298.0	298.0	0.5	0.5	-96.38	-7.9	-70.8	71.2	70.3	0.96	74.451	
400.0	400.0	398.0	398.0	0.7	0.7	-96.38	-7.9	-70.8	71.2	69.9	1.31	54.545	
500.0	500.0	498.5	498.5	0.8	0.8	-95.75	-7.1	-70.5	70.9	69.2	1.66	42.824	
554.5	554.5	553.2	553.2	0.9	0.9	174.77	-5.9	-70.2	70.7	68.9	1.85	38.261	CC
600.0	600.0	598.9	598.8	1.0	1.0	175.87	-4.6	-69.8	70.8	68.8	2.01	35.271	ES
700.0	700.0	699.1	699.0	1.2	1.2	179.28	-0.4	-68.6	72.1	69.8	2.37	30.472	
800.0	799.9	799.2	798.9	1.4	1.4	-176.20	5.5	-66.9	75.0	72.3	2.73	27.433	
900.0	899.7	899.1	898.5	1.6	1.6	-170.97	13.0	-64.8	79.8	76.7	3.12	25.629	
1,000.0	999.4	998.6	997.6	1.8	1.8	-165.74	21.7	-62.3	86.5	83.0	3.51	24.672	
1,100.0	1,099.1	1,098.1	1,096.6	2.0	2.0	-161.27	30.5	-59.8	93.9	90.0	3.91	24.047	
1,200.0	1,198.8	1,197.6	1,195.7	2.2	2.2	-157.47	39.3	-57.3	101.8	97.5	4.31	23.626	
1,300.0	1,298.5	1,297.1	1,294.7	2.4	2.5	-154.22	48.1	-54.8	110.1	105.4	4.72	23.344	
1,400.0	1,398.3	1,396.5	1,393.8	2.6	2.7	-151.43	56.9	-52.3	118.7	113.5	5.13	23.154	
1,500.0	1,498.0	1,496.0	1,492.9	2.8	2.9	-149.03	65.7	-49.7	127.5	122.0	5.54	23.030	
1,600.0	1,597.7	1,595.5	1,591.9	3.0	3.2	-146.93	74.5	-47.2	136.5	130.6	5.95	22.951	
1,700.0	1,697.4	1,695.0	1,691.0	3.2	3.4	-145.10	83.3	-44.7	145.7	139.3	6.36	22.903	
1,800.0	1,797.1	1,794.4	1,790.0	3.4	3.6	-143.49	92.1	-42.2	155.0	148.2	6.77	22.878	
1,900.0	1,896.8	1,893.9	1,889.1	3.7	3.9	-142.06	100.9	-39.7	164.4	157.2	7.19	22.870	
2,000.0	1,996.5	1,993.4	1,988.1	3.9	4.1	-140.78	109.7	-37.2	173.9	166.3	7.60	22.873	
2,100.0	2,096.2	2,092.9	2,087.2	4.1	4.3	-139.64	118.5	-34.7	183.5	175.4	8.02	22.884	
2,200.0	2,196.0	2,192.4	2,186.2	4.3	4.6	-138.61	127.3	-32.2	193.1	184.7	8.43	22.902	
2,300.0	2,295.7	2,291.8	2,285.3	4.5	4.8	-137.68	136.1	-29.6	202.8	193.9	8.85	22.923	
2,400.0	2,395.4	2,391.3	2,384.4	4.7	5.0	-136.83	144.9	-27.1	212.5	203.3	9.26	22.948	
2,500.0	2,495.1	2,490.8	2,483.4	5.0	5.3	-136.06	153.7	-24.6	222.3	212.6	9.68	22.974	
2,600.0	2,594.8	2,590.3	2,582.5	5.2	5.5	-135.35	162.5	-22.1	232.1	222.1	10.09	23.002	
2,700.0	2,694.5	2,689.7	2,681.5	5.4	5.7	-134.71	171.3	-19.6	242.0	231.5	10.51	23.030	
2,800.0	2,794.2	2,789.2	2,780.6	5.6	6.0	-134.11	180.1	-17.1	251.9	241.0	10.92	23.059	
2,900.0	2,894.0	2,888.7	2,879.6	5.8	6.2	-133.55	188.9	-14.6	261.8	250.5	11.34	23.087	
3,000.0	2,993.7	2,988.2	2,978.7	6.0	6.4	-133.04	197.7	-12.1	271.7	260.0	11.76	23.116	
3,100.0	3,093.4	3,087.6	3,077.7	6.3	6.7	-132.56	206.5	-9.5	281.7	269.5	12.17	23.144	
3,200.0	3,193.1	3,187.1	3,176.8	6.5	6.9	-132.12	215.3	-7.0	291.6	279.1	12.59	23.171	
3,300.0	3,292.8	3,286.6	3,275.9	6.7	7.1	-131.71	224.1	-4.5	301.6	288.6	13.00	23.198	
3,400.0	3,392.5	3,386.1	3,374.9	6.9	7.4	-131.32	232.9	-2.0	311.6	298.2	13.42	23.225	
3,500.0	3,492.2	3,485.6	3,474.0	7.1	7.6	-130.95	241.7	0.5	321.6	307.8	13.83	23.250	
3,600.0	3,592.0	3,585.0	3,573.0	7.3	7.8	-130.61	250.5	3.0	331.7	317.4	14.25	23.276	
3,700.0	3,691.7	3,684.5	3,672.1	7.6	8.1	-130.29	259.3	5.5	341.7	327.0	14.67	23.300	
3,800.0	3,791.4	3,784.0	3,771.1	7.8	8.3	-129.99	268.1	8.0	351.8	336.7	15.08	23.324	
3,900.0	3,891.1	3,883.5	3,870.2	8.0	8.5	-129.70	276.9	10.6	361.8	346.3	15.50	23.347	
4,000.0	3,990.8	3,982.9	3,969.2	8.2	8.8	-129.43	285.7	13.1	371.9	356.0	15.91	23.369	
4,100.0	4,090.5	4,082.4	4,068.3	8.4	9.0	-129.17	294.5	15.6	382.0	365.6	16.33	23.391	
4,200.0	4,190.2	4,181.9	4,167.4	8.7	9.2	-128.93	303.3	18.1	392.0	375.3	16.75	23.412	
4,300.0	4,290.0	4,281.4	4,266.4	8.9	9.5	-128.70	312.1	20.6	402.1	385.0	17.16	23.432	
4,400.0	4,389.7	4,380.9	4,365.5	9.1	9.7	-128.48	320.9	23.1	412.2	394.6	17.58	23.452	
4,500.0	4,489.4	4,480.3	4,464.5	9.3	9.9	-128.27	329.7	25.6	422.3	404.3	17.99	23.471	
4,600.0	4,589.1	4,579.8	4,563.6	9.5	10.2	-128.07	338.5	28.2	432.4	414.0	18.41	23.489	
4,700.0	4,688.8	4,679.3	4,662.6	9.7	10.4	-127.88	347.3	30.7	442.5	423.7	18.82	23.507	
4,800.0	4,788.5	4,778.8	4,761.7	10.0	10.7	-127.69	356.1	33.2	452.6	433.4	19.24	23.525	
4,900.0	4,888.2	4,878.2	4,860.7	10.2	10.9	-127.52	364.9	35.7	462.8	443.1	19.66	23.542	
5,000.0	4,988.0	4,977.7	4,959.8	10.4	11.1	-127.35	373.7	38.2	472.9	452.8	20.07	23.558	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,087.7	5,077.2	5,058.8	10.6	11.4	-127.19	382.5	40.7	483.0	462.5	20.49	23.574	
5,200.0	5,187.4	5,176.7	5,157.9	10.8	11.6	-127.04	391.3	43.2	493.1	472.2	20.90	23.590	
7,500.0	7,430.5	7,757.2	7,651.8	16.2	14.9	-101.11	330.0	106.5	486.2	458.4	27.82	17.476	
7,600.0	7,492.0	7,718.0	7,627.9	16.7	15.1	-99.73	361.1	105.9	445.1	416.5	28.58	15.572	
7,700.0	7,539.0	7,674.7	7,599.1	17.4	15.3	-96.08	393.4	105.2	422.5	392.8	29.75	14.200	
7,767.2	7,561.6	7,644.3	7,577.5	18.0	15.4	-92.55	414.7	104.6	418.2	387.6	30.67	13.635	
7,800.0	7,570.0	7,629.3	7,566.3	18.3	15.5	-90.55	424.9	104.3	419.2	388.1	31.09	13.485	
7,900.0	7,584.1	7,582.7	7,530.3	19.2	15.7	-83.64	454.4	103.4	433.1	401.0	32.14	13.476	SF
8,000.0	7,585.0	7,537.9	7,493.5	20.3	15.8	-78.03	479.8	102.5	460.9	427.9	32.99	13.971	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-91.69	-1.9	-65.7	65.8				
100.0	100.0	98.0	98.0	0.1	0.1	-91.69	-1.9	-65.7	65.8	65.5	0.26	253.743	
200.0	200.0	198.0	198.0	0.3	0.3	-91.69	-1.9	-65.7	65.8	65.2	0.61	108.278	
300.0	300.0	298.0	298.0	0.5	0.5	-91.69	-1.9	-65.7	65.8	64.8	0.96	68.761	
400.0	400.0	398.0	398.0	0.7	0.7	-91.69	-1.9	-65.7	65.8	64.5	1.31	50.376	
500.0	500.0	498.0	498.0	0.8	0.8	-91.69	-1.9	-65.7	65.8	64.1	1.65	39.748	CC
600.0	600.0	598.7	598.7	1.0	1.0	178.49	-1.3	-65.2	66.1	64.1	2.00	32.965	ES
700.0	700.0	699.4	699.4	1.2	1.2	-179.73	0.8	-63.6	67.1	64.7	2.36	28.465	
800.0	799.9	800.1	799.9	1.4	1.4	-176.87	4.2	-60.8	68.8	66.1	2.71	25.388	
900.0	899.7	900.6	900.3	1.6	1.6	-173.11	9.0	-57.0	71.6	68.5	3.07	23.283	
1,000.0	999.4	1,001.0	1,000.4	1.8	1.8	-168.64	15.2	-52.1	75.1	71.7	3.45	21.764	
1,100.0	1,099.1	1,101.3	1,100.2	2.0	2.0	-163.45	22.7	-46.1	78.5	74.7	3.85	20.390	
1,200.0	1,198.8	1,201.2	1,199.4	2.2	2.2	-157.66	31.4	-39.1	82.0	77.7	4.27	19.200	
1,300.0	1,298.5	1,300.8	1,298.4	2.4	2.5	-152.19	40.4	-31.9	86.2	81.5	4.71	18.317	
1,400.0	1,398.3	1,400.3	1,397.3	2.6	2.7	-147.27	49.4	-24.7	91.1	86.0	5.15	17.686	
1,500.0	1,498.0	1,499.9	1,496.2	2.8	3.0	-142.88	58.4	-17.5	96.7	91.1	5.61	17.242	
1,600.0	1,597.7	1,599.5	1,595.1	3.0	3.2	-138.99	67.3	-10.4	102.7	96.6	6.06	16.937	
1,700.0	1,697.4	1,699.1	1,694.0	3.2	3.5	-135.53	76.3	-3.2	109.2	102.6	6.52	16.735	
1,800.0	1,797.1	1,798.7	1,793.0	3.4	3.7	-132.47	85.3	4.0	116.0	109.0	6.98	16.610	
1,900.0	1,896.8	1,898.3	1,891.9	3.7	4.0	-129.76	94.3	11.2	123.1	115.6	7.44	16.540	
2,000.0	1,996.5	1,997.9	1,990.8	3.9	4.2	-127.35	103.3	18.3	130.4	122.5	7.90	16.512	
2,100.0	2,096.2	2,097.5	2,089.7	4.1	4.5	-125.19	112.2	25.5	138.0	129.6	8.35	16.514	
2,200.0	2,196.0	2,197.0	2,188.6	4.3	4.7	-123.26	121.2	32.7	145.7	136.9	8.81	16.539	
2,300.0	2,295.7	2,296.6	2,287.6	4.5	5.0	-121.53	130.2	39.9	153.6	144.3	9.26	16.579	
2,400.0	2,395.4	2,396.2	2,386.5	4.7	5.3	-119.97	139.2	47.0	161.6	151.8	9.71	16.631	
2,500.0	2,495.1	2,495.8	2,485.4	5.0	5.5	-118.55	148.2	54.2	169.7	159.5	10.17	16.691	
2,600.0	2,594.8	2,595.4	2,584.3	5.2	5.8	-117.27	157.1	61.4	177.9	167.3	10.61	16.757	
2,700.0	2,694.5	2,695.0	2,683.3	5.4	6.1	-116.09	166.1	68.6	186.2	175.1	11.06	16.826	
2,800.0	2,794.2	2,794.6	2,782.2	5.6	6.3	-115.02	175.1	75.7	194.5	183.0	11.51	16.897	
2,900.0	2,894.0	2,894.1	2,881.1	5.8	6.6	-114.04	184.1	82.9	202.9	191.0	11.96	16.970	
3,000.0	2,993.7	2,993.7	2,980.0	6.0	6.8	-113.13	193.0	90.1	211.4	199.0	12.40	17.042	
3,100.0	3,093.4	3,093.3	3,078.9	6.3	7.1	-112.30	202.0	97.3	219.9	207.1	12.85	17.115	
3,200.0	3,193.1	3,192.9	3,177.9	6.5	7.4	-111.53	211.0	104.5	228.5	215.2	13.29	17.186	
3,300.0	3,292.8	3,292.5	3,276.8	6.7	7.6	-110.81	220.0	111.6	237.1	223.3	13.74	17.257	
3,400.0	3,392.5	3,392.1	3,375.7	6.9	7.9	-110.14	229.0	118.8	245.7	231.5	14.18	17.326	
3,500.0	3,492.2	3,491.7	3,474.6	7.1	8.2	-109.52	237.9	126.0	254.4	239.7	14.62	17.394	
3,600.0	3,592.0	3,591.3	3,573.6	7.3	8.4	-108.94	246.9	133.2	263.1	248.0	15.07	17.460	
3,700.0	3,691.7	3,690.8	3,672.5	7.6	8.7	-108.40	255.9	140.3	271.8	256.3	15.51	17.524	
3,800.0	3,791.4	3,790.4	3,771.4	7.8	8.9	-107.89	264.9	147.5	280.5	264.6	15.95	17.587	
3,900.0	3,891.1	3,890.0	3,870.3	8.0	9.2	-107.41	273.9	154.7	289.3	272.9	16.39	17.648	
4,000.0	3,990.8	3,989.6	3,969.2	8.2	9.5	-106.96	282.8	161.9	298.1	281.2	16.83	17.707	
4,100.0	4,090.5	4,089.2	4,068.2	8.4	9.7	-106.54	291.8	169.0	306.8	289.6	17.27	17.764	
4,200.0	4,190.2	4,188.8	4,167.1	8.7	10.0	-106.13	300.8	176.2	315.7	297.9	17.71	17.820	
4,300.0	4,290.0	4,288.4	4,266.0	8.9	10.3	-105.76	309.8	183.4	324.5	306.3	18.15	17.874	
4,400.0	4,389.7	4,388.0	4,364.9	9.1	10.5	-105.40	318.7	190.6	333.3	314.7	18.59	17.926	
4,500.0	4,489.4	4,487.5	4,463.9	9.3	10.8	-105.06	327.7	197.7	342.2	323.1	19.03	17.977	
4,600.0	4,589.1	4,587.1	4,562.8	9.5	11.1	-104.73	336.7	204.9	351.0	331.6	19.47	18.026	
4,700.0	4,688.8	4,686.7	4,661.7	9.7	11.3	-104.43	345.7	212.1	359.9	340.0	19.91	18.074	
4,800.0	4,788.5	4,786.3	4,760.6	10.0	11.6	-104.13	354.7	219.3	368.8	348.5	20.35	18.121	
4,900.0	4,888.2	4,885.9	4,859.5	10.2	11.9	-103.85	363.6	226.4	377.7	356.9	20.79	18.166	
5,000.0	4,988.0	4,985.5	4,958.5	10.4	12.1	-103.59	372.6	233.6	386.6	365.4	21.23	18.209	
5,100.0	5,087.7	5,085.1	5,057.4	10.6	12.4	-103.33	381.6	240.8	395.5	373.8	21.67	18.251	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,187.4	5,184.7	5,156.3	10.8	12.7	-103.09	390.6	248.0	404.4	382.3	22.11	18.293	
5,300.0	5,287.1	5,284.2	5,255.2	11.1	12.9	-102.86	399.6	255.1	413.4	390.8	22.55	18.332	
5,400.0	5,386.8	5,383.8	5,354.1	11.3	13.2	-102.64	408.5	262.3	422.3	399.3	22.99	18.371	
5,500.0	5,486.5	5,483.4	5,453.1	11.5	13.4	-102.42	417.5	269.5	431.2	407.8	23.42	18.409	
5,600.0	5,586.2	5,583.0	5,552.0	11.7	13.7	-102.22	426.5	276.7	440.2	416.3	23.86	18.445	
5,700.0	5,686.0	5,682.6	5,650.9	11.9	14.0	-102.02	435.5	283.9	449.1	424.8	24.30	18.481	
5,800.0	5,785.7	5,782.2	5,749.8	12.2	14.2	-101.83	444.4	291.0	458.1	433.3	24.74	18.515	
5,900.0	5,885.4	5,881.8	5,848.8	12.4	14.5	-101.65	453.4	298.2	467.0	441.8	25.18	18.549	
6,000.0	5,985.1	5,981.4	5,947.7	12.6	14.8	-101.48	462.4	305.4	476.0	450.4	25.62	18.581	
6,100.0	6,084.8	6,080.9	6,046.6	12.8	15.0	-101.31	471.4	312.6	484.9	458.9	26.05	18.613	
6,200.0	6,184.5	6,180.5	6,145.5	13.0	15.3	-101.15	480.4	319.7	493.9	467.4	26.49	18.644	
7,300.0	7,271.7	7,797.1	7,665.5	15.5	16.9	-72.11	313.6	430.0	475.9	446.7	29.20	16.299	
7,400.0	7,356.3	7,804.0	7,669.3	15.8	16.9	-112.81	307.9	430.3	378.8	352.3	26.57	14.256	
7,500.0	7,430.5	7,773.8	7,652.4	16.2	17.0	-123.76	332.8	429.0	284.5	258.8	25.74	11.054	
7,600.0	7,492.0	7,734.0	7,628.2	16.7	17.1	-122.19	364.4	427.3	196.8	170.8	25.96	7.581	
7,700.0	7,539.0	7,690.3	7,599.2	17.4	17.3	-111.36	397.0	425.2	125.3	97.2	28.17	4.450	
7,783.5	7,566.0	7,652.2	7,572.0	18.1	17.4	-94.70	423.6	423.2	100.0	69.2	30.83	3.243	
7,800.0	7,570.0	7,644.6	7,566.3	18.3	17.4	-90.72	428.6	422.8	101.0	69.9	31.16	3.243	SF
7,900.0	7,584.1	7,600.0	7,531.9	19.2	17.6	-66.28	456.9	420.3	141.6	111.4	30.17	4.694	
8,000.0	7,585.0	7,550.0	7,490.9	20.3	17.7	-49.41	485.2	417.3	208.7	181.5	27.18	7.679	
8,100.0	7,585.0	7,516.4	7,461.9	21.5	17.8	-42.20	502.2	415.2	287.3	261.3	26.04	11.036	
8,200.0	7,585.0	7,486.8	7,435.7	22.7	17.9	-37.20	515.7	413.3	372.0	346.7	25.30	14.703	
8,300.0	7,585.0	7,462.5	7,413.6	24.0	17.9	-33.83	525.8	411.7	460.3	435.4	24.96	18.443	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-98.97	-8.0	-50.8	51.4				
100.0	100.0	98.0	98.0	0.1	0.1	-98.97	-8.0	-50.8	51.4	51.1	0.26	198.302	
200.0	200.0	198.0	198.0	0.3	0.3	-98.97	-8.0	-50.8	51.4	50.8	0.61	84.621	
300.0	300.0	298.0	298.0	0.5	0.5	-98.97	-8.0	-50.8	51.4	50.4	0.96	53.737	
400.0	400.0	398.0	398.0	0.7	0.7	-98.97	-8.0	-50.8	51.4	50.1	1.31	39.369	
500.0	500.0	498.0	498.0	0.8	0.8	-98.97	-8.0	-50.8	51.4	49.7	1.65	31.063	CC, ES
600.0	600.0	598.0	598.0	1.0	1.0	170.77	-8.0	-50.8	52.3	50.3	2.00	26.084	
700.0	700.0	698.0	698.0	1.2	1.2	171.20	-8.0	-50.8	54.8	52.5	2.35	23.319	
800.0	799.9	797.9	797.9	1.4	1.3	171.84	-8.0	-50.8	59.2	56.5	2.70	21.912	
900.0	899.7	897.7	897.7	1.6	1.5	172.60	-8.0	-50.8	65.2	62.2	3.05	21.401	
1,000.0	999.4	997.4	997.4	1.8	1.7	173.35	-8.0	-50.8	72.6	69.2	3.39	21.389	
1,100.0	1,099.1	1,098.3	1,098.3	2.0	1.9	174.31	-7.5	-50.1	79.4	75.7	3.75	21.205	
1,200.0	1,198.8	1,199.3	1,199.3	2.2	2.1	175.78	-5.9	-48.0	84.8	80.7	4.10	20.697	
1,300.0	1,298.5	1,300.4	1,300.3	2.4	2.2	177.75	-3.2	-44.6	88.8	84.3	4.45	19.953	
1,400.0	1,398.3	1,401.6	1,401.3	2.6	2.4	-179.77	0.6	-39.7	91.5	86.7	4.81	19.035	
1,500.0	1,498.0	1,502.7	1,502.1	2.8	2.6	-176.73	5.6	-33.4	93.0	87.8	5.17	17.995	
1,600.0	1,597.7	1,603.7	1,602.6	3.0	2.8	-173.02	11.5	-25.7	93.5	88.0	5.54	16.874	
1,700.0	1,697.4	1,704.6	1,702.8	3.2	3.1	-168.56	18.6	-16.7	93.3	87.3	5.94	15.712	
1,800.0	1,797.1	1,805.2	1,802.6	3.4	3.3	-163.23	26.8	-6.3	92.6	86.2	6.36	14.550	
1,900.0	1,896.8	1,905.5	1,901.8	3.7	3.6	-156.93	35.9	5.5	91.8	85.0	6.83	13.440	
1,957.7	1,954.3	1,963.0	1,958.5	3.8	3.7	-152.92	41.6	12.8	91.6	84.5	7.12	12.862	
2,000.0	1,996.5	2,005.1	2,000.0	3.9	3.8	-149.97	45.8	18.1	91.7	84.4	7.34	12.493	
2,100.0	2,096.2	2,104.4	2,098.1	4.1	4.1	-143.08	55.6	30.7	93.0	85.1	7.88	11.797	
2,200.0	2,196.0	2,203.8	2,196.2	4.3	4.4	-136.47	65.5	43.3	95.6	87.1	8.44	11.325	
2,300.0	2,295.7	2,303.2	2,294.2	4.5	4.7	-130.28	75.3	55.9	99.4	90.4	9.00	11.042	
2,400.0	2,395.4	2,402.5	2,392.3	4.7	5.0	-124.60	85.2	68.5	104.2	94.7	9.55	10.913	
2,500.0	2,495.1	2,501.9	2,490.4	5.0	5.3	-119.47	95.0	81.1	110.0	99.9	10.09	10.906	
2,600.0	2,594.8	2,601.3	2,588.4	5.2	5.6	-114.88	104.9	93.7	116.6	106.0	10.61	10.991	
2,700.0	2,694.5	2,700.6	2,686.5	5.4	5.9	-110.80	114.7	106.3	123.9	112.7	11.11	11.144	
2,800.0	2,794.2	2,800.0	2,784.6	5.6	6.2	-107.18	124.5	118.9	131.7	120.1	11.60	11.347	
2,900.0	2,894.0	2,899.4	2,882.7	5.8	6.5	-103.98	134.4	131.5	140.0	127.9	12.08	11.584	
3,000.0	2,993.7	2,998.7	2,980.7	6.0	6.9	-101.14	144.2	144.1	148.6	136.1	12.55	11.845	
3,100.0	3,093.4	3,098.1	3,078.8	6.3	7.2	-98.62	154.1	156.7	157.6	144.6	13.01	12.120	
3,200.0	3,193.1	3,197.5	3,176.9	6.5	7.5	-96.38	163.9	169.3	166.9	153.4	13.46	12.403	
3,300.0	3,292.8	3,296.8	3,275.0	6.7	7.8	-94.37	173.8	181.9	176.4	162.5	13.90	12.690	
3,400.0	3,392.5	3,396.2	3,373.0	6.9	8.1	-92.57	183.6	194.5	186.1	171.7	14.34	12.976	
3,500.0	3,492.2	3,495.6	3,471.1	7.1	8.4	-90.94	193.4	207.1	195.9	181.2	14.78	13.261	
3,600.0	3,592.0	3,594.9	3,569.2	7.3	8.8	-89.48	203.3	219.7	205.9	190.7	15.21	13.541	
3,700.0	3,691.7	3,694.3	3,667.2	7.6	9.1	-88.15	213.1	232.3	216.0	200.4	15.64	13.815	
3,800.0	3,791.4	3,793.7	3,765.3	7.8	9.4	-86.94	223.0	244.9	226.3	210.2	16.06	14.084	
3,900.0	3,891.1	3,893.0	3,863.4	8.0	9.7	-85.83	232.8	257.5	236.6	220.1	16.49	14.345	
4,000.0	3,990.8	3,992.4	3,961.5	8.2	10.1	-84.82	242.7	270.1	247.0	230.0	16.92	14.599	
4,100.0	4,090.5	4,091.8	4,059.5	8.4	10.4	-83.88	252.5	282.7	257.4	240.1	17.34	14.846	
4,200.0	4,190.2	4,191.1	4,157.6	8.7	10.7	-83.03	262.4	295.3	267.9	250.2	17.76	15.085	
4,300.0	4,290.0	4,290.5	4,255.7	8.9	11.0	-82.23	272.2	307.9	278.5	260.3	18.18	15.317	
4,400.0	4,389.7	4,389.9	4,353.7	9.1	11.4	-81.50	282.0	320.5	289.1	270.5	18.61	15.541	
4,500.0	4,489.4	4,489.3	4,451.8	9.3	11.7	-80.81	291.9	333.1	299.8	280.8	19.03	15.758	
4,600.0	4,589.1	4,588.6	4,549.9	9.5	12.0	-80.18	301.7	345.7	310.5	291.1	19.45	15.969	
4,700.0	4,688.8	4,688.0	4,648.0	9.7	12.3	-79.58	311.6	358.3	321.3	301.4	19.87	16.172	
4,800.0	4,788.5	4,787.4	4,746.0	10.0	12.7	-79.03	321.4	370.9	332.1	311.8	20.29	16.369	
4,900.0	4,888.2	4,886.7	4,844.1	10.2	13.0	-78.51	331.3	383.5	342.9	322.2	20.71	16.559	
5,000.0	4,988.0	4,986.1	4,942.2	10.4	13.3	-78.02	341.1	396.1	353.7	332.6	21.13	16.743	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,087.7	5,085.5	5,040.3	10.6	13.6	-77.56	351.0	408.7	364.6	343.0	21.54	16.921	
5,200.0	5,187.4	5,184.8	5,138.3	10.8	14.0	-77.12	360.8	421.3	375.4	353.5	21.96	17.094	
5,300.0	5,287.1	5,284.2	5,236.4	11.1	14.3	-76.72	370.6	433.9	386.3	364.0	22.38	17.261	
5,400.0	5,386.8	5,383.6	5,334.5	11.3	14.6	-76.33	380.5	446.5	397.3	374.5	22.80	17.423	
5,500.0	5,486.5	5,482.9	5,432.5	11.5	14.9	-75.96	390.3	459.1	408.2	385.0	23.22	17.579	
5,600.0	5,586.2	5,582.3	5,530.6	11.7	15.3	-75.62	400.2	471.7	419.1	395.5	23.64	17.731	
5,700.0	5,686.0	5,681.7	5,628.7	11.9	15.6	-75.29	410.0	484.3	430.1	406.0	24.06	17.878	
5,800.0	5,785.7	5,781.0	5,726.8	12.2	15.9	-74.98	419.9	496.9	441.1	416.6	24.48	18.021	
5,900.0	5,885.4	5,880.4	5,824.8	12.4	16.3	-74.68	429.7	509.5	452.1	427.2	24.89	18.160	
6,000.0	5,985.1	5,979.8	5,922.9	12.6	16.6	-74.40	439.6	522.1	463.1	437.8	25.31	18.294	
6,100.0	6,084.8	6,079.1	6,021.0	12.8	16.9	-74.13	449.4	534.7	474.1	448.4	25.73	18.424	
6,200.0	6,184.5	6,178.5	6,119.1	13.0	17.2	-73.87	459.2	547.3	485.1	459.0	26.15	18.551	
6,300.0	6,284.2	6,277.9	6,217.1	13.2	17.6	-73.62	469.1	559.9	496.1	469.6	26.57	18.674	
7,400.0	7,356.3	7,715.2	7,593.1	15.8	20.7	63.34	400.5	751.1	449.3	423.0	26.32	17.071	
7,500.0	7,430.5	7,727.7	7,601.7	16.2	20.7	81.86	391.7	752.9	367.1	338.7	28.38	12.934	
7,600.0	7,492.0	7,708.1	7,588.1	16.7	20.8	88.31	405.4	750.1	294.8	265.2	29.61	9.955	
7,700.0	7,539.0	7,676.3	7,564.9	17.4	20.8	87.31	426.8	745.5	241.7	211.4	30.36	7.962	
7,800.0	7,570.0	7,638.5	7,536.0	18.3	20.8	80.77	450.3	739.9	219.3	188.3	30.99	7.076	
7,811.9	7,572.6	7,633.8	7,532.2	18.4	20.9	79.68	453.2	739.2	219.0	187.9	31.06	7.052	SF
7,900.0	7,584.1	7,600.0	7,504.9	19.2	20.9	70.63	472.3	734.2	232.1	200.7	31.41	7.389	
8,000.0	7,585.0	7,557.0	7,468.5	20.3	20.9	60.55	494.3	727.7	272.5	241.3	31.19	8.735	
8,100.0	7,585.0	7,524.5	7,439.9	21.5	21.0	54.11	509.1	722.8	333.1	302.3	30.89	10.786	
8,200.0	7,585.0	7,500.0	7,417.9	22.7	21.0	49.60	519.1	719.1	406.5	375.7	30.75	13.220	
8,300.0	7,585.0	7,476.7	7,396.5	24.0	21.0	45.59	527.8	715.6	487.4	456.9	30.55	15.958	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-92.56	-2.0	-45.7	45.8				
100.0	100.0	98.0	98.0	0.1	0.1	-92.56	-2.0	-45.7	45.8	45.5	0.26	176.643	
200.0	200.0	198.0	198.0	0.3	0.3	-92.56	-2.0	-45.7	45.8	45.2	0.61	75.378	
300.0	300.0	298.0	298.0	0.5	0.5	-92.56	-2.0	-45.7	45.8	44.8	0.96	47.868	
400.0	400.0	398.7	398.7	0.7	0.7	-92.09	-1.6	-45.0	45.0	43.7	1.31	34.439	
500.0	500.0	499.4	499.3	0.8	0.8	-90.56	-0.4	-42.7	42.7	41.0	1.66	25.707	
600.0	600.0	599.9	599.8	1.0	1.0	-178.03	1.6	-38.8	39.8	37.7	2.01	19.767	
700.0	700.0	700.4	700.1	1.2	1.2	-173.39	4.5	-33.4	37.2	34.8	2.37	15.707	
800.0	799.9	800.8	800.2	1.4	1.4	-166.86	8.2	-26.4	35.3	32.6	2.74	12.897	
900.0	899.7	901.1	900.0	1.6	1.7	-158.52	12.7	-17.9	34.4	31.3	3.14	10.987	
929.2	928.8	930.4	929.1	1.6	1.7	-155.78	14.2	-15.1	34.4	31.1	3.26	10.549	CC
1,000.0	999.4	1,001.3	999.5	1.8	1.9	-148.60	18.1	-7.9	34.6	31.0	3.57	9.678	ES
1,100.0	1,099.1	1,101.3	1,098.6	2.0	2.2	-136.50	24.2	3.7	35.2	31.1	4.07	8.660	
1,200.0	1,198.8	1,201.0	1,197.3	2.2	2.5	-122.68	31.1	16.7	37.1	32.5	4.60	8.072	
1,300.0	1,298.5	1,300.4	1,295.3	2.4	2.8	-108.48	38.8	31.2	41.2	36.1	5.14	8.032	SF
1,400.0	1,398.3	1,399.4	1,392.7	2.6	3.1	-95.50	47.3	47.1	48.0	42.4	5.62	8.549	
1,500.0	1,498.0	1,498.6	1,490.0	2.8	3.5	-85.35	56.2	63.8	57.1	51.0	6.04	9.457	
1,600.0	1,597.7	1,597.7	1,587.4	3.0	3.8	-78.12	65.0	80.4	67.4	61.0	6.43	10.493	
1,700.0	1,697.4	1,696.9	1,684.7	3.2	4.2	-72.87	73.9	97.1	78.5	71.7	6.80	11.544	
1,800.0	1,797.1	1,796.1	1,782.1	3.4	4.6	-68.93	82.7	113.8	90.2	83.0	7.18	12.557	
1,900.0	1,896.8	1,895.2	1,879.4	3.7	4.9	-65.91	91.6	130.4	102.1	94.5	7.56	13.511	
2,000.0	1,996.5	1,994.4	1,976.8	3.9	5.3	-63.52	100.4	147.1	114.2	106.3	7.93	14.401	
2,100.0	2,096.2	2,093.5	2,074.1	4.1	5.7	-61.59	109.3	163.7	126.6	118.2	8.31	15.225	
2,200.0	2,196.0	2,192.7	2,171.5	4.3	6.0	-60.00	118.1	180.4	139.0	130.3	8.69	15.988	
2,300.0	2,295.7	2,291.8	2,268.8	4.5	6.4	-58.68	127.0	197.1	151.5	142.4	9.08	16.693	
2,400.0	2,395.4	2,391.0	2,366.1	4.7	6.8	-57.56	135.8	213.7	164.1	154.6	9.46	17.347	
2,500.0	2,495.1	2,490.2	2,463.5	5.0	7.1	-56.60	144.7	230.4	176.7	166.9	9.84	17.953	
2,600.0	2,594.8	2,589.3	2,560.8	5.2	7.5	-55.76	153.6	247.0	189.4	179.2	10.23	18.516	
2,700.0	2,694.5	2,688.5	2,658.2	5.4	7.9	-55.03	162.4	263.7	202.1	191.5	10.62	19.040	
2,800.0	2,794.2	2,787.6	2,755.5	5.6	8.2	-54.39	171.3	280.4	214.9	203.9	11.00	19.528	
2,900.0	2,894.0	2,886.8	2,852.9	5.8	8.6	-53.82	180.1	297.0	227.7	216.3	11.39	19.985	
3,000.0	2,993.7	2,985.9	2,950.2	6.0	9.0	-53.31	189.0	313.7	240.4	228.7	11.78	20.412	
3,100.0	3,093.4	3,085.1	3,047.6	6.3	9.4	-52.85	197.8	330.3	253.2	241.1	12.17	20.812	
3,200.0	3,193.1	3,184.3	3,144.9	6.5	9.7	-52.44	206.7	347.0	266.1	253.5	12.56	21.188	
3,300.0	3,292.8	3,283.4	3,242.3	6.7	10.1	-52.06	215.5	363.7	278.9	266.0	12.95	21.542	
3,400.0	3,392.5	3,382.6	3,339.6	6.9	10.5	-51.72	224.4	380.3	291.7	278.4	13.34	21.875	
3,500.0	3,492.2	3,481.7	3,437.0	7.1	10.9	-51.41	233.2	397.0	304.6	290.9	13.73	22.190	
3,600.0	3,592.0	3,580.9	3,534.3	7.3	11.2	-51.12	242.1	413.6	317.5	303.3	14.12	22.488	
3,700.0	3,691.7	3,680.0	3,631.6	7.6	11.6	-50.85	251.0	430.3	330.3	315.8	14.51	22.770	
3,800.0	3,791.4	3,779.2	3,729.0	7.8	12.0	-50.60	259.8	447.0	343.2	328.3	14.90	23.037	
3,900.0	3,891.1	3,878.4	3,826.3	8.0	12.4	-50.38	268.7	463.6	356.1	340.8	15.29	23.291	
4,000.0	3,990.8	3,977.5	3,923.7	8.2	12.7	-50.16	277.5	480.3	369.0	353.3	15.68	23.532	
4,100.0	4,090.5	4,076.7	4,021.0	8.4	13.1	-49.97	286.4	497.0	381.9	365.8	16.07	23.761	
4,200.0	4,190.2	4,175.8	4,118.4	8.7	13.5	-49.78	295.2	513.6	394.7	378.3	16.46	23.980	
4,300.0	4,290.0	4,275.0	4,215.7	8.9	13.8	-49.61	304.1	530.3	407.6	390.8	16.85	24.188	
4,400.0	4,389.7	4,374.1	4,313.1	9.1	14.2	-49.44	312.9	546.9	420.5	403.3	17.24	24.387	
4,500.0	4,489.4	4,473.3	4,410.4	9.3	14.6	-49.29	321.8	563.6	433.5	415.8	17.64	24.577	
4,600.0	4,589.1	4,572.5	4,507.8	9.5	15.0	-49.15	330.6	580.3	446.4	428.3	18.03	24.759	
4,700.0	4,688.8	4,671.6	4,605.1	9.7	15.3	-49.01	339.5	596.9	459.3	440.9	18.42	24.934	
4,800.0	4,788.5	4,770.8	4,702.5	10.0	15.7	-48.88	348.3	613.6	472.2	453.4	18.81	25.101	
4,900.0	4,888.2	4,869.9	4,799.8	10.2	16.1	-48.76	357.2	630.2	485.1	465.9	19.20	25.261	
5,000.0	4,988.0	4,969.1	4,897.1	10.4	16.5	-48.64	366.1	646.9	498.0	478.4	19.60	25.415	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-Geolink MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-101.19	-8.1	-40.8	41.6				
100.0	100.0	98.0	98.0	0.1	0.1	-101.19	-8.1	-40.8	41.6	41.3	0.26	160.343	
200.0	200.0	198.0	198.0	0.3	0.3	-101.19	-8.1	-40.8	41.6	41.0	0.61	68.422	
300.0	300.0	298.7	298.7	0.5	0.5	-100.96	-7.7	-40.0	40.7	39.8	0.96	42.491	
400.0	400.0	399.3	399.3	0.7	0.7	-100.19	-6.7	-37.6	38.2	36.9	1.31	29.062	
500.0	500.0	499.9	499.7	0.8	0.8	-98.63	-5.1	-33.5	33.9	32.3	1.68	20.241	
600.0	600.0	600.3	599.9	1.0	1.0	174.12	-2.8	-27.8	28.9	26.9	2.01	14.372	
700.0	700.0	700.5	699.9	1.2	1.3	-179.79	0.2	-20.6	24.1	21.8	2.37	10.178	
800.0	799.9	800.7	799.6	1.4	1.5	-169.02	3.9	-11.7	20.0	17.2	2.75	7.263	
900.0	899.7	900.8	899.0	1.6	1.8	-151.77	8.2	-1.2	17.3	14.1	3.20	5.411	
968.4	967.9	969.1	966.8	1.7	1.9	-136.21	11.5	6.9	16.7	13.2	3.56	4.690	CC, ES
1,000.0	999.4	1,000.7	998.1	1.8	2.0	-128.79	13.2	10.9	17.0	13.2	3.74	4.541	SF
1,100.0	1,099.1	1,100.3	1,096.6	2.0	2.3	-103.46	18.8	24.5	19.5	15.2	4.27	4.561	
1,200.0	1,198.8	1,199.7	1,194.6	2.2	2.7	-82.91	25.0	39.7	25.5	20.9	4.68	5.456	
1,300.0	1,298.5	1,298.7	1,292.0	2.4	3.0	-69.02	31.8	56.4	34.7	29.7	5.02	6.923	
1,400.0	1,398.3	1,397.3	1,388.6	2.6	3.4	-59.88	39.3	74.5	46.4	41.1	5.33	8.702	
1,500.0	1,498.0	1,495.4	1,484.4	2.8	3.8	-53.65	47.3	94.1	60.3	54.6	5.66	10.653	
1,600.0	1,597.7	1,593.5	1,579.8	3.0	4.2	-49.23	55.9	115.1	75.9	69.9	5.99	12.682	
1,700.0	1,697.4	1,692.1	1,675.7	3.2	4.6	-46.25	64.7	136.3	92.1	85.8	6.33	14.553	
1,800.0	1,797.1	1,790.7	1,771.6	3.4	5.0	-44.16	73.4	157.6	108.5	101.8	6.68	16.235	
1,900.0	1,896.8	1,889.2	1,867.4	3.7	5.5	-42.62	82.2	178.9	124.9	117.9	7.04	17.749	
2,000.0	1,996.5	1,987.8	1,963.3	3.9	5.9	-41.44	90.9	200.2	141.5	134.1	7.40	19.116	
2,100.0	2,096.2	2,086.4	2,059.1	4.1	6.3	-40.51	99.6	221.5	158.0	150.3	7.76	20.355	
2,200.0	2,196.0	2,185.0	2,155.0	4.3	6.8	-39.75	108.4	242.7	174.6	166.5	8.13	21.482	
2,300.0	2,295.7	2,283.6	2,250.9	4.5	7.2	-39.13	117.1	264.0	191.3	182.8	8.50	22.510	
2,400.0	2,395.4	2,382.2	2,346.7	4.7	7.7	-38.60	125.9	285.3	207.9	199.1	8.87	23.453	
2,500.0	2,495.1	2,480.8	2,442.6	5.0	8.1	-38.15	134.6	306.6	224.6	215.3	9.23	24.320	
2,600.0	2,594.8	2,579.4	2,538.5	5.2	8.5	-37.77	143.3	327.8	241.3	231.7	9.60	25.120	
2,700.0	2,694.5	2,677.9	2,634.3	5.4	9.0	-37.43	152.1	349.1	257.9	248.0	9.97	25.860	
2,800.0	2,794.2	2,776.5	2,730.2	5.6	9.4	-37.14	160.8	370.4	274.6	264.3	10.35	26.547	
2,900.0	2,894.0	2,875.1	2,826.1	5.8	9.9	-36.88	169.6	391.7	291.3	280.6	10.72	27.185	
3,000.0	2,993.7	2,973.7	2,921.9	6.0	10.3	-36.65	178.3	413.0	308.0	296.9	11.09	27.781	
3,100.0	3,093.4	3,072.3	3,017.8	6.3	10.7	-36.44	187.0	434.2	324.7	313.3	11.46	28.338	
3,200.0	3,193.1	3,170.9	3,113.7	6.5	11.2	-36.25	195.8	455.5	341.5	329.6	11.83	28.859	
3,300.0	3,292.8	3,269.5	3,209.5	6.7	11.6	-36.08	204.5	476.8	358.2	346.0	12.20	29.349	
3,400.0	3,392.5	3,368.1	3,305.4	6.9	12.1	-35.92	213.3	498.1	374.9	362.3	12.58	29.809	
3,500.0	3,492.2	3,466.6	3,401.3	7.1	12.5	-35.78	222.0	519.4	391.6	378.7	12.95	30.243	
3,600.0	3,592.0	3,565.2	3,497.1	7.3	13.0	-35.65	230.7	540.6	408.3	395.0	13.32	30.652	
3,700.0	3,691.7	3,663.8	3,593.0	7.6	13.4	-35.53	239.5	561.9	425.1	411.4	13.69	31.039	
3,800.0	3,791.4	3,762.4	3,688.9	7.8	13.8	-35.42	248.2	583.2	441.8	427.7	14.07	31.405	
3,900.0	3,891.1	3,861.0	3,784.7	8.0	14.3	-35.31	257.0	604.5	458.5	444.1	14.44	31.753	
4,000.0	3,990.8	3,959.6	3,880.6	8.2	14.7	-35.22	265.7	625.8	475.2	460.4	14.81	32.082	
4,100.0	4,090.5	4,058.2	3,976.5	8.4	15.2	-35.13	274.5	647.0	492.0	476.8	15.19	32.396	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	**TVD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	**MD Reference:**	WELL @ 5021.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Woolley-Becky 2D-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 #3	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5021.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

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