

DJ/Paradox/WTX

**Wattenberg
New Drills
Mann 33-26**

Wellbore #1

Plan: Mann 33-26

Standard Planning Report - Geographic

12 May, 2011

EnCana Corporation

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Mann 33-26
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 5184.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 5184.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Mann 33-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Mann 33-26		

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

Site		New Drills				
Site Position:		Northing:	1,278,589.08ft	Latitude:	40° 5' 49.848 N	
From:	Lat/Long	Easting:	3,130,247.44ft	Longitude:	105° 2' 3.912 W	
Position Uncertainty:		ft	Slot Radius:	in	Grid Convergence:	0.30 °

Well	Mann 33-26					
Well Position	+N-S	-28,967.7 ft	Northing:	1,249,739.47 ft	Latitude:	40° 1' 3.648 N
	+E-W	19,462.5 ft	Easting:	3,149,884.42 ft	Longitude:	104° 57' 53.460 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	5,171.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.09	66.76	53,078

Design	Mann 33-26				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	317.81	

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	
1,230.0	0.00	0.00	1,230.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,003.9	15.48	317.81	1,994.5	77.0	-69.8	2.00	2.00	0.00	317.81	
6,881.8	15.48	317.81	6,695.5	1,041.4	-944.1	0.00	0.00	0.00	0.00	
7,655.7	0.00	0.00	7,460.0	1,118.4	-1,013.8	2.00	-2.00	0.00	180.00	
8,755.7	0.00	0.00	8,560.0	1,118.4	-1,013.8	0.00	0.00	0.00	0.00	Mann 33-26

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Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	1,249,739.47	3,149,884.42	40° 1' 3.648 N	104° 57' 53.460 W	
1,180.0	0.00	0.00	1,180.0	0.0	0.0	1,249,739.47	3,149,884.42	40° 1' 3.648 N	104° 57' 53.460 W	
Surface										
1,230.0	0.00	0.00	1,230.0	0.0	0.0	1,249,739.47	3,149,884.42	40° 1' 3.648 N	104° 57' 53.460 W	
2,003.9	15.48	317.81	1,994.5	77.0	-69.8	1,249,816.01	3,149,814.18	40° 1' 4.409 N	104° 57' 54.357 W	
4,919.1	15.48	317.81	4,804.0	653.3	-592.3	1,250,389.22	3,149,288.20	40° 1' 10.105 N	104° 58' 1.073 W	
Sussex										
5,541.7	15.48	317.81	5,404.0	776.4	-703.9	1,250,511.63	3,149,175.87	40° 1' 11.321 N	104° 58' 2.508 W	
Shannon										
6,881.8	15.48	317.81	6,695.5	1,041.4	-944.1	1,250,775.13	3,148,934.08	40° 1' 13.939 N	104° 58' 5.595 W	
7,655.7	0.00	0.00	7,460.0	1,118.4	-1,013.8	1,250,851.68	3,148,863.84	40° 1' 14.700 N	104° 58' 6.492 W	
7,719.7	0.00	0.00	7,524.0	1,118.4	-1,013.8	1,250,851.68	3,148,863.84	40° 1' 14.700 N	104° 58' 6.492 W	
Niobrara										
8,174.7	0.00	0.00	7,979.0	1,118.4	-1,013.8	1,250,851.68	3,148,863.84	40° 1' 14.700 N	104° 58' 6.492 W	
Codell										
8,605.7	0.00	0.00	8,410.0	1,118.4	-1,013.8	1,250,851.68	3,148,863.84	40° 1' 14.700 N	104° 58' 6.492 W	
J Sand										
8,655.7	0.00	0.00	8,460.0	1,118.4	-1,013.8	1,250,851.68	3,148,863.84	40° 1' 14.700 N	104° 58' 6.492 W	
A Marker										
8,755.7	0.00	0.00	8,560.0	1,118.4	-1,013.8	1,250,851.68	3,148,863.84	40° 1' 14.700 N	104° 58' 6.492 W	
Production - Mann 33-26										

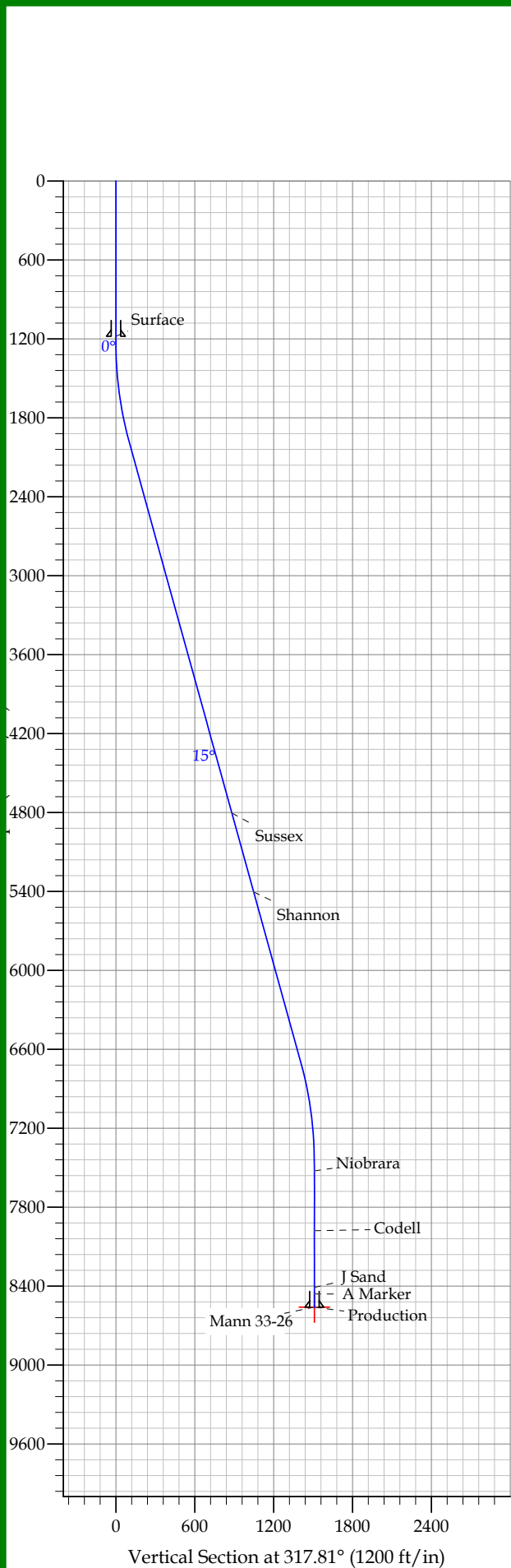
Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Mann 33-26	0.00	0.00	8,560.0	1,118.4	-1,013.8	1,250,851.68	3,148,863.84	40° 1' 14.700 N	104° 58' 6.492 W	
- plan hits target										
- Point										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,180.0	1,180.0	Surface	8.625	12.250	
8,755.7	8,560.0	Production	4.500	7.785	

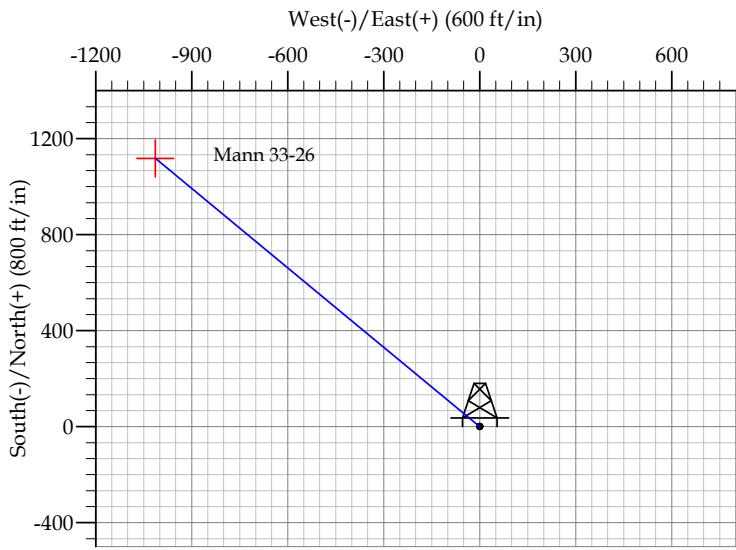
Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,919.1	4,804.0	Sussex		0.00		
5,541.7	5,404.0	Shannon		0.00		
7,719.7	7,524.0	Niobrara		0.00		
8,174.7	7,979.0	Codell		0.00		
8,605.7	8,410.0	J Sand		0.00		
8,655.7	8,460.0	A Marker		0.00		

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Project:	Wattenberg	MD Reference:	WELL @ 5184.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Mann 33-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Mann 33-26		



REFERENCE INFORMATION										
Co-ordinate (N/E) Reference: Well Mann 33-26, True North										
Vertical (TVD) Reference: WELL @ 5184.0ft (Original Well Elev)										
Section (VS) Reference: Slot - (0.0N, 0.0E)										
Measured Depth Reference: WELL @ 5184.0ft (Original Well Elev)										
Calculation Method:										
WELL DETAILS: Mann 33-26										
+N/-S		+E/-W		Northing		Ground Level: Easting		5171.0 Latitude		Longitude Slot
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1230.0	0.00	0.00	1230.0	0.0	0.0	0.00	0.00	0.0	
3	2003.9	15.48	317.81	1994.5	77.0	-69.8	2.00	317.81	103.9	
4	6881.8	15.48	317.81	6695.5	1041.4	-944.1	0.00	0.00	1405.6	
5	7655.7	0.00	0.00	7460.0	1118.4	-1013.8	2.00	180.00	1509.5	
6	8755.7	0.00	0.00	8560.0	1118.4	-1013.8	0.00	0.00	1509.5	Mann 33-26



FORMATION TOP DETAILS			
	TVDPath	MDPath	Formation
	4804.0	4919.1	Sussex
	5404.0	5541.7	Shannon
	7524.0	7719.7	Niobrara
	7979.0	8174.7	Codell
	8410.0	8605.7	J Sand
	8460.0	8655.7	A Marker
CASING DETAILS			
	TVD	MD	Name
	1180.0	1180.0	Surface
	8560.0	8755.7	Production
			Size
			8.625
			4.500