

EnCana Corporation

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well lone 4-8-4
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4940.0ft (Original Well Elev)
Project:	DJ Basin	MD Reference:	WELL @ 4940.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	lone 4-8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	lone 4-8-4		

Project	DJ Basin,		
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	lone 4-8-4					
Well Position	+N-S	23,324.1 ft	Northing:	1,302,478.73 ft	Latitude:	40° 9' 41.328 N
	+E-W	70,120.5 ft	Easting:	3,200,177.11 ft	Longitude:	104° 47' 1.572 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,928.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.01	66.91	53,176

Design	lone 4-8-4			
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	145.16

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	
850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,181.9	6.64	145.16	1,181.1	-15.8	11.0	2.00	2.00	0.00	145.16	
6,648.3	6.64	145.16	6,610.9	-534.3	371.9	0.00	0.00	0.00	0.00	
6,980.1	0.00	0.00	6,942.0	-550.1	382.9	2.00	-2.00	0.00	180.00	
8,030.1	0.00	0.00	7,992.0	-550.1	382.9	0.00	0.00	0.00	0.00	lone 4-8-4

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Project:	DJ Basin	MD Reference:	WELL @ 4940.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	lone 4-8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	lone 4-8-4		

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	1,302,478.73	3,200,177.11	40° 9' 41.328 N	104° 47' 1.572 W
800.0	0.00	0.00	800.0	0.0	0.0	1,302,478.73	3,200,177.11	40° 9' 41.328 N	104° 47' 1.572 W
Surface									
850.0	0.00	0.00	850.0	0.0	0.0	1,302,478.73	3,200,177.11	40° 9' 41.328 N	104° 47' 1.572 W
1,181.9	6.64	145.16	1,181.1	-15.8	11.0	1,302,463.06	3,200,188.21	40° 9' 41.172 N	104° 47' 1.431 W
4,420.4	6.64	145.16	4,398.0	-323.0	224.8	1,302,157.59	3,200,404.54	40° 9' 38.136 N	104° 46' 58.676 W
Sussex									
5,051.7	6.64	145.16	5,025.0	-382.8	266.5	1,302,098.05	3,200,446.71	40° 9' 37.544 N	104° 46' 58.139 W
Shannon									
6,648.3	6.64	145.16	6,610.9	-534.3	371.9	1,301,947.46	3,200,553.35	40° 9' 36.048 N	104° 46' 56.781 W
6,980.1	0.00	0.00	6,942.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
7,173.1	0.00	0.00	7,135.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
Niobrara									
7,443.1	0.00	0.00	7,405.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
Codell									
7,880.1	0.00	0.00	7,842.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
J Sand									
7,963.1	0.00	0.00	7,925.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
A Marker									
8,030.1	0.00	0.00	7,992.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
Production - lone 4-8-4									

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									
lone 4-8-4	0.00	0.00	7,992.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
- plan hits target									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
800.0	800.0	Surface	8.625	12.250	
8,030.1	7,992.0	Production	4.500	7.785	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,420.4	4,398.0	Sussex		0.00		
5,051.7	5,025.0	Shannon		0.00		
7,173.1	7,135.0	Niobrara		0.00		
7,443.1	7,405.0	Codell		0.00		
7,880.1	7,842.0	J Sand		0.00		
7,963.1	7,925.0	A Marker		0.00		

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Project:	DJ Basin	MD Reference:	WELL @ 4940.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	lone 4-8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	lone 4-8-4		

Project	DJ Basin,		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
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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	lone 4-8-4					
Well Position	+N-S	23,324.1 ft	Northing:	1,302,478.73 ft	Latitude:	40° 9' 41.328 N
	+E-W	70,120.5 ft	Easting:	3,200,177.11 ft	Longitude:	104° 47' 1.572 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,928.0 ft

Wellbore	Wellbore #1				
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Design	lone 4-8-4				
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	145.16	

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	
850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,181.9	6.64	145.16	1,181.1	-15.8	11.0	2.00	2.00	0.00	145.16	
6,648.3	6.64	145.16	6,610.9	-534.3	371.9	0.00	0.00	0.00	0.00	
6,980.1	0.00	0.00	6,942.0	-550.1	382.9	2.00	-2.00	0.00	180.00	
8,030.1	0.00	0.00	7,992.0	-550.1	382.9	0.00	0.00	0.00	0.00	lone 4-8-4

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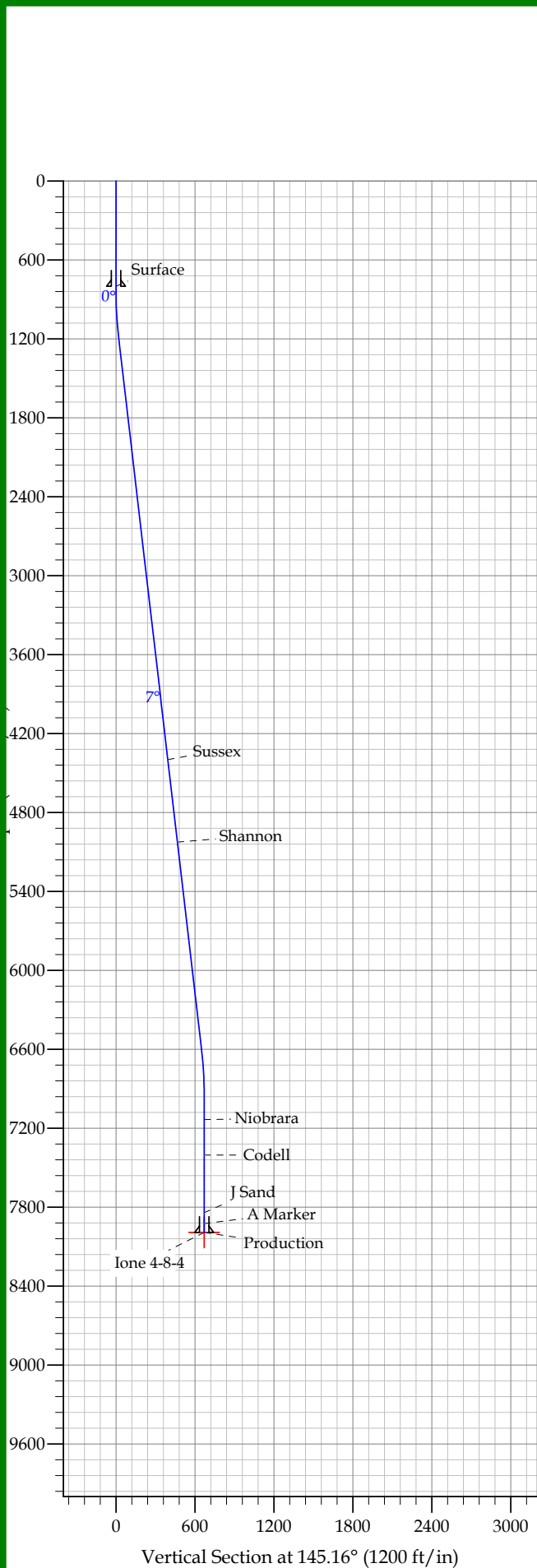
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Project:	DJ Basin	MD Reference:	WELL @ 4940.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	lone 4-8-4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	lone 4-8-4		

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	1,302,478.73	3,200,177.11	40° 9' 41.328 N	104° 47' 1.572 W
800.0	0.00	0.00	800.0	0.0	0.0	1,302,478.73	3,200,177.11	40° 9' 41.328 N	104° 47' 1.572 W
Surface									
850.0	0.00	0.00	850.0	0.0	0.0	1,302,478.73	3,200,177.11	40° 9' 41.328 N	104° 47' 1.572 W
1,181.9	6.64	145.16	1,181.1	-15.8	11.0	1,302,463.06	3,200,188.21	40° 9' 41.172 N	104° 47' 1.431 W
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6,980.1	0.00	0.00	6,942.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
7,173.1	0.00	0.00	7,135.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
Niobrara									
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Codell									
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A Marker									
8,030.1	0.00	0.00	7,992.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
Production - lone 4-8-4									

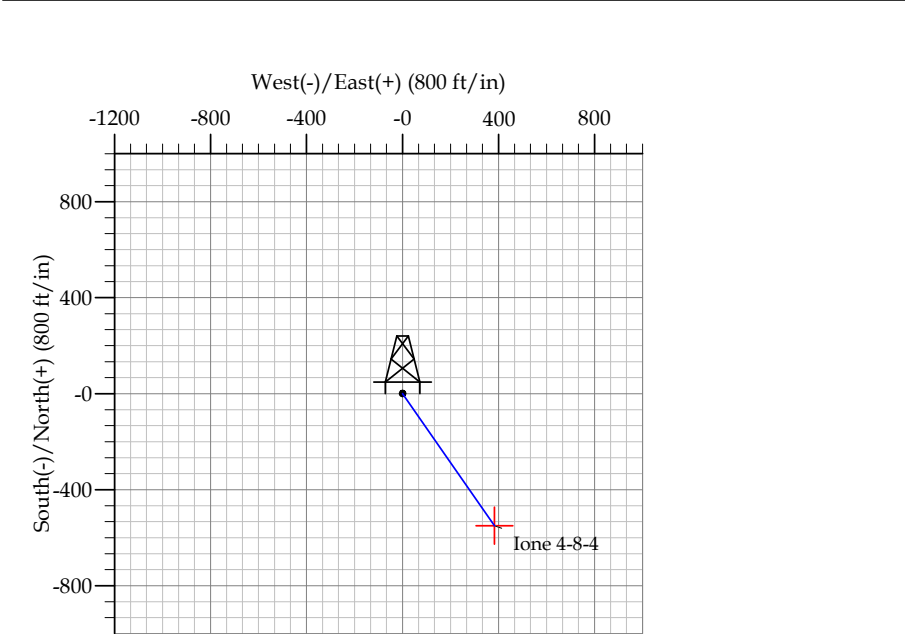
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
lone 4-8-4	0.00	0.00	7,992.0	-550.1	382.9	1,301,931.79	3,200,564.45	40° 9' 35.892 N	104° 46' 56.640 W
- plan hits target									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
800.0	800.0	Surface	8.625	12.250	
8,030.1	7,992.0	Production	4.500	7.785	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,420.4	4,398.0	Sussex		0.00		
5,051.7	5,025.0	Shannon		0.00		
7,173.1	7,135.0	Niobrara		0.00		
7,443.1	7,405.0	Codell		0.00		
7,880.1	7,842.0	J Sand		0.00		
7,963.1	7,925.0	A Marker		0.00		



REFERENCE INFORMATION											
Co-ordinate (N/E) Reference: Well Ione 4-8-4, True North											
Vertical (TVD) Reference: WELL @ 4940.0ft (Original Well Elev)											
Section (VS) Reference: Slot - (0.0N, 0.0E)											
Measured Depth Reference: WELL @ 4940.0ft (Original Well Elev)											
Calculation Method:											
WELL DETAILS: Ione 4-8-4											
+N/-S		+E/-W		Northing		Ground Level: 4928.0		Easting		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	850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.0		
3	1181.9	6.64	145.16	1181.1	-15.8	11.0	2.00	145.16	19.2		
4	6648.3	6.64	145.16	6610.9	-534.3	371.9	0.00	0.00	651.0		
5	6980.1	0.00	0.00	6942.0	-550.1	382.9	2.00	180.00	670.2		
6	8030.1	0.00	0.00	7992.0	-550.1	382.9	0.00	0.00	670.2	Ione 4-8-4	



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4398.0	4420.4	Sussex
5025.0	5051.7	Shannon
7135.0	7173.1	Niobrara
7405.0	7443.1	Codell
7842.0	7880.1	J Sand
7925.0	7963.1	A Marker

CASING DETAILS			
TVD	MD	Name	Size
800.0	800.0	Surface	8.625
7992.0	8030.1	Production	4.500