

# EnCana Corporation

## Planning Report - Geographic

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Bearden 2-8-6
<b>Company:</b>	DJ/Paradox/WTX	<b>TVD Reference:</b>	WELL @ 4991.0ft (Original Well Elev)
<b>Project:</b>	Wattenberg	<b>MD Reference:</b>	WELL @ 4991.0ft (Original Well Elev)
<b>Site:</b>	New Drills	<b>North Reference:</b>	True
<b>Well:</b>	Bearden 2-8-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Bearden 2-8-6		

<b>Project</b>	Wattenberg,		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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	Bearden 2-8-6					
Well Position	+N-S	-7,435.3 ft	Northing:	1,271,131.86 ft	Latitude:	40° 4' 36.372 N
	+E-W	-4,339.0 ft	Easting:	3,125,946.25 ft	Longitude:	105° 2' 59.748 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,978.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	9.15	66.80	53,102

<b>Design</b>	Bearden 2-8-6				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE		<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	194.70	

<b>Plan Sections</b>										
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	
775.0	0.00	0.00	775.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,445.2	13.40	194.70	1,439.1	-75.5	-19.8	2.00	2.00	0.00	194.70	
6,669.3	13.40	194.70	6,520.9	-1,246.8	-327.2	0.00	0.00	0.00	0.00	
7,339.5	0.00	0.00	7,185.0	-1,322.3	-347.0	2.00	-2.00	0.00	180.00	
8,439.5	0.00	0.00	8,285.0	-1,322.3	-347.0	0.00	0.00	0.00	0.00	Bearden 2-8-6

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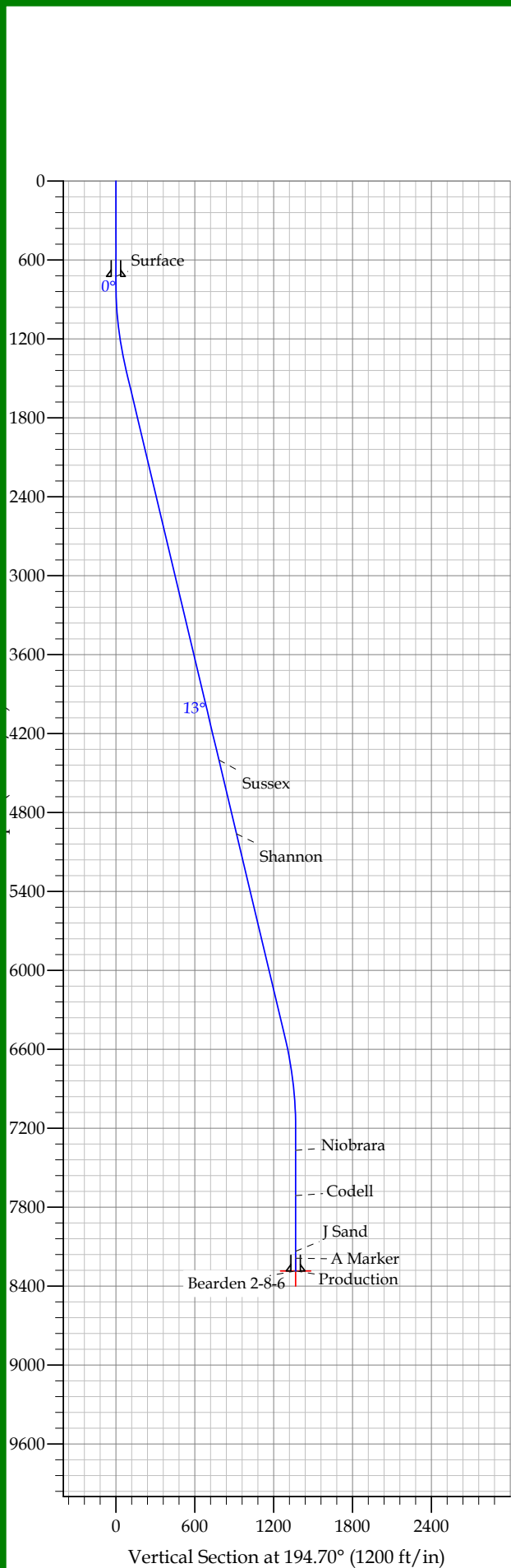
<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Bearden 2-8-6
<b>Company:</b>	DJ/Paradox/WTX	<b>TVD Reference:</b>	WELL @ 4991.0ft (Original Well Elev)
<b>Project:</b>	Wattenberg	<b>MD Reference:</b>	WELL @ 4991.0ft (Original Well Elev)
<b>Site:</b>	New Drills	<b>North Reference:</b>	True
<b>Well:</b>	Bearden 2-8-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Bearden 2-8-6		

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	1,271,131.86	3,125,946.25	40° 4' 36.372 N	105° 2' 59.748 W	
725.0	0.00	0.00	725.0	0.0	0.0	1,271,131.86	3,125,946.25	40° 4' 36.372 N	105° 2' 59.748 W	
Surface										
775.0	0.00	0.00	775.0	0.0	0.0	1,271,131.86	3,125,946.25	40° 4' 36.372 N	105° 2' 59.748 W	
1,445.2	13.40	194.70	1,439.1	-75.5	-19.8	1,271,056.28	3,125,926.82	40° 4' 35.626 N	105° 3' 0.003 W	
4,490.0	13.40	194.70	4,401.0	-758.2	-199.0	1,270,372.66	3,125,751.12	40° 4' 28.879 N	105° 3' 2.308 W	
Sussex										
5,066.7	13.40	194.70	4,962.0	-887.5	-232.9	1,270,243.18	3,125,717.84	40° 4' 27.601 N	105° 3' 2.744 W	
Shannon										
6,669.3	13.40	194.70	6,520.9	-1,246.8	-327.2	1,269,883.38	3,125,625.37	40° 4' 24.050 N	105° 3' 3.957 W	
7,339.5	0.00	0.00	7,185.0	-1,322.3	-347.0	1,269,807.80	3,125,605.95	40° 4' 23.304 N	105° 3' 4.212 W	
7,523.5	0.00	0.00	7,369.0	-1,322.3	-347.0	1,269,807.80	3,125,605.95	40° 4' 23.304 N	105° 3' 4.212 W	
Niobrara										
7,866.5	0.00	0.00	7,712.0	-1,322.3	-347.0	1,269,807.80	3,125,605.95	40° 4' 23.304 N	105° 3' 4.212 W	
Codell										
8,289.5	0.00	0.00	8,135.0	-1,322.3	-347.0	1,269,807.80	3,125,605.95	40° 4' 23.304 N	105° 3' 4.212 W	
J Sand										
8,342.5	0.00	0.00	8,188.0	-1,322.3	-347.0	1,269,807.80	3,125,605.95	40° 4' 23.304 N	105° 3' 4.212 W	
A Marker										
8,439.5	0.00	0.00	8,285.0	-1,322.3	-347.0	1,269,807.80	3,125,605.95	40° 4' 23.304 N	105° 3' 4.212 W	
Production - Bearden 2-8-6										

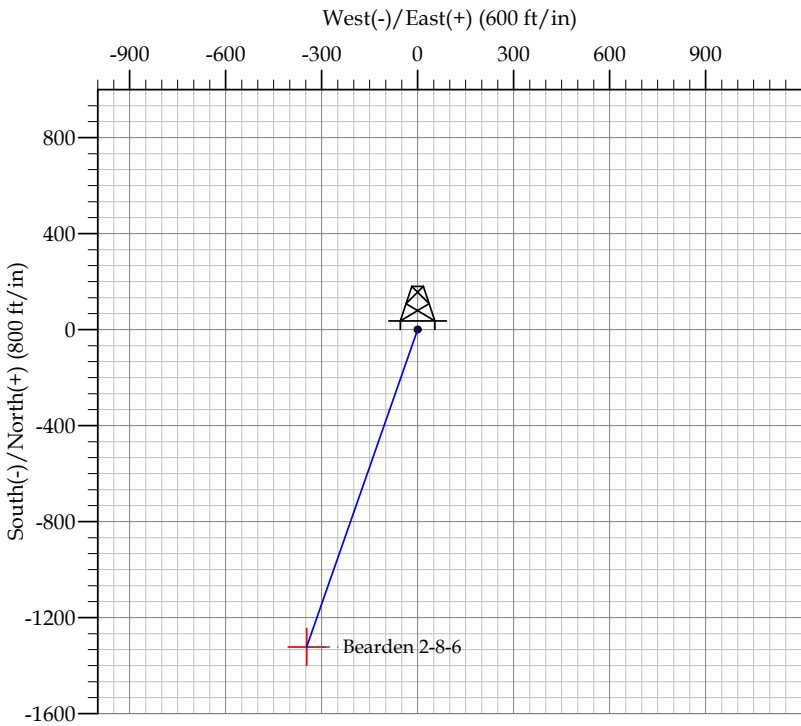
Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Bearden 2-8-6	0.00	0.00	8,285.0	-1,322.3	-347.0	1,269,807.80	3,125,605.95	40° 4' 23.304 N	105° 3' 4.212 W	
- plan hits target										
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
725.0	725.0	Surface	8.625	12.250		
8,439.5	8,285.0	Production	4.500	7.785		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,490.0	4,401.0	Sussex		0.00		
5,066.7	4,962.0	Shannon		0.00		
7,523.5	7,369.0	Niobrara		0.00		
7,866.5	7,712.0	Codell		0.00		
8,289.5	8,135.0	J Sand		0.00		
8,342.5	8,188.0	A Marker		0.00		



REFERENCE INFORMATION											
Co-ordinate (N/E) Reference: Well Bearden 2-8-6, True North											
Vertical (TVD) Reference: WELL @ 4991.0ft (Original Well Elev)											
Section (VS) Reference: Slot - (0.0N, 0.0E)											
Measured Depth Reference: WELL @ 4991.0ft (Original Well Elev)											
Calculation Method:											
WELL DETAILS: Bearden 2-8-6											
+N/-S		+E/-W		Northing		Ground Level: 4978.0 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	775.0	0.00	0.00	775.0	0.0	0.0	0.00	0.00	0.0		
3	1445.2	13.40	194.70	1439.1	-75.5	-19.8	2.00	194.70	78.0		
4	6669.3	13.40	194.70	6520.9	-1246.8	-327.2	0.00	0.00	1289.1		
5	7339.5	0.00	0.00	7185.0	-1322.3	-347.0	2.00	180.00	1367.1		
6	8439.5	0.00	0.00	8285.0	-1322.3	-347.0	0.00	0.00	1367.1	Bearden 2-8-6	



FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
4401.0	4490.0	Sussex	
4962.0	5066.7	Shannon	
7369.0	7523.5	Niobrara	
7712.0	7866.5	Codell	
8135.0	8289.5	J Sand	
8188.0	8342.5	A Marker	

CASING DETAILS			
TVD	MD	Name	Size
725.0	725.0	Surface	8.625
8285.0	8439.5	Production	4.500