

EnCana Corporation
 Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Herren 5-2-33
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4837.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4837.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Herren 5-2-33	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Herren 5-2-33		

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:	1,252,450.66 ft	Latitude:	40° 1' 32.016 N
From:	Lat/Long	Easting:	3,120,627.66 ft	Longitude:	105° 4' 9.336 W
Position Uncertainty:	ft	Slot Radius:	in	Grid Convergence:	0.28 °

Well	Herren 5-2-33					
Well Position	+N/-S	59,405.1 ft	Northing:	1,312,207.47 ft	Latitude:	40° 11' 19.608 N
	+E/-W	51,089.3 ft	Easting:	3,171,304.89 ft	Longitude:	104° 53' 12.588 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,824.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.07	66.92	53,180

Design	Herren 5-2-33			
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	238.70

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	
750.0	0.00	0.00	750.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,490.5	14.81	238.70	1,482.3	-49.4	-81.3	2.00	2.00	0.00	238.70	
6,259.4	14.81	238.70	6,092.7	-682.7	-1,122.8	0.00	0.00	0.00	0.00	
6,999.9	0.00	0.00	6,825.0	-732.2	-1,204.2	2.00	-2.00	0.00	180.00	
8,049.9	0.00	0.00	7,875.0	-732.2	-1,204.2	0.00	0.00	0.00	0.00	Herren 5-2-33

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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	1,312,207.47	3,171,304.89	40° 11' 19.608 N	104° 53' 12.588 W	
700.0	0.00	0.00	700.0	0.0	0.0	1,312,207.47	3,171,304.89	40° 11' 19.608 N	104° 53' 12.588 W	
Surface										
750.0	0.00	0.00	750.0	0.0	0.0	1,312,207.47	3,171,304.89	40° 11' 19.608 N	104° 53' 12.588 W	
1,490.5	14.81	238.70	1,482.3	-49.4	-81.3	1,312,157.47	3,171,223.92	40° 11' 19.119 N	104° 53' 13.636 W	
4,277.8	14.81	238.70	4,177.0	-419.6	-690.1	1,311,783.12	3,170,617.74	40° 11' 15.461 N	104° 53' 21.480 W	
Sussex										
4,838.4	14.81	238.70	4,719.0	-494.0	-812.5	1,311,707.83	3,170,495.82	40° 11' 14.725 N	104° 53' 23.058 W	
Shannon										
6,259.4	14.81	238.70	6,092.7	-682.7	-1,122.8	1,311,516.99	3,170,186.80	40° 11' 12.861 N	104° 53' 27.056 W	
6,999.9	0.00	0.00	6,825.0	-732.2	-1,204.2	1,311,466.99	3,170,105.83	40° 11' 12.372 N	104° 53' 28.104 W	
7,198.9	0.00	0.00	7,024.0	-732.2	-1,204.2	1,311,466.99	3,170,105.83	40° 11' 12.372 N	104° 53' 28.104 W	
Niobrara										
7,463.9	0.00	0.00	7,289.0	-732.2	-1,204.2	1,311,466.99	3,170,105.83	40° 11' 12.372 N	104° 53' 28.104 W	
Codell										
7,899.9	0.00	0.00	7,725.0	-732.2	-1,204.2	1,311,466.99	3,170,105.83	40° 11' 12.372 N	104° 53' 28.104 W	
J Sand										
7,971.9	0.00	0.00	7,797.0	-732.2	-1,204.2	1,311,466.99	3,170,105.83	40° 11' 12.372 N	104° 53' 28.104 W	
A Marker										
8,049.9	0.00	0.00	7,875.0	-732.2	-1,204.2	1,311,466.99	3,170,105.83	40° 11' 12.372 N	104° 53' 28.104 W	
Production - Herren 5-2-33										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
Herren 5-2-33 - hit/miss target - Shape - Point	0.00	0.00	7,875.0	-732.2	-1,204.2	1,311,466.99	3,170,105.83	40° 11' 12.372 N	104° 53' 28.104 W	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
700.0	700.0	Surface	8.625	12.250		
8,049.9	7,875.0	Production	4.500	7.785		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,277.8	4,177.0	Sussex		0.00		
4,838.4	4,719.0	Shannon		0.00		
7,198.9	7,024.0	Niobrara		0.00		
7,463.9	7,289.0	Codell		0.00		
7,899.9	7,725.0	J Sand		0.00		
7,971.9	7,797.0	A Marker		0.00		

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