

REFERENCE INFORMATION

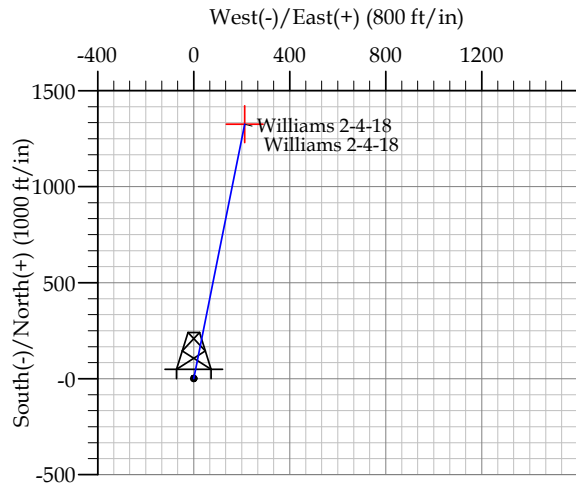
Co-ordinate (N/E) Reference: Well Williams 2-4-18, True North  
Vertical (TVD) Reference: WELL @ 4995.0ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.0N, 0.0E)  
Measured Depth Reference: WELL @ 4995.0ft (Original Well Elev)  
Calculation Method:

WELL DETAILS: Williams 2-4-18

			Ground Level:	4982.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		Slot
0.0	0.0	1292206.02	3125305.24	40° 8' 4.668 N	105° 3' 6.624 W		

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	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1479.2	13.58	9.10	1472.9	79.1	12.7	2.00	9.10	80.1	
4	6514.3	13.58	9.10	6367.1	1246.9	199.8	0.00	0.00	1262.8	
5	7193.5	0.00	0.00	7040.0	1326.0	212.5	2.00	180.00	1342.9	
6	8243.5	0.00	0.00	8090.0	1326.0	212.5	0.00	0.00	1342.9	Williams 2-4-18



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4265.0	4351.7	Sussex
4705.0	4804.4	Shannon
7220.0	7373.5	Niobrara
7502.0	7655.5	Codell
7940.0	8093.5	J Sand
7990.0	8143.5	A Marker

CASING DETAILS

TVD	MD	Name	Size
750.0	750.0	Surface	8.625
8090.0	8243.5	Production	4.500

**EnCana Corporation**  
Planning Report - Geographic

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Williams 2-4-18
<b>Company:</b>	DJ/Paradox/WTX	<b>TVD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Project:</b>	Wattenberg	<b>MD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Site:</b>	New Drills	<b>North Reference:</b>	True
<b>Well:</b>	Williams 2-4-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Williams 2-4-18		

<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:	1,252,450.66 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		Williams 2-4-18				
Well Position	+N/-S	39,731.3 ft	Northing:	1,292,206.02 ft	Latitude:	40° 8' 4.668 N
	+E/-W	4,878.5 ft	Easting:	3,125,305.24 ft	Longitude:	105° 3' 6.624 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,982.0 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	66.84	53,132

<b>Design</b>	Williams 2-4-18				
<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	9.10	

<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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,479.2	13.58	9.10	1,472.9	79.1	12.7	2.00	2.00	0.00	9.10	
6,514.3	13.58	9.10	6,367.1	1,246.9	199.8	0.00	0.00	0.00	0.00	
7,193.5	0.00	0.00	7,040.0	1,326.0	212.5	2.00	-2.00	0.00	180.00	
8,243.5	0.00	0.00	8,090.0	1,326.0	212.5	0.00	0.00	0.00	0.00	Williams 2-4-18

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<b>Project:</b>	Wattenberg	<b>MD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Site:</b>	New Drills	<b>North Reference:</b>	True
<b>Well:</b>	Williams 2-4-18	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Williams 2-4-18		

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	1,292,206.02	3,125,305.24	40° 8' 4.668 N	105° 3' 6.624 W
750.0	0.00	0.00	750.0	0.0	0.0	1,292,206.02	3,125,305.24	40° 8' 4.668 N	105° 3' 6.624 W
Surface									
800.0	0.00	0.00	800.0	0.0	0.0	1,292,206.02	3,125,305.24	40° 8' 4.668 N	105° 3' 6.624 W
1,479.2	13.58	9.10	1,472.9	79.1	12.7	1,292,285.22	3,125,317.52	40° 8' 5.450 N	105° 3' 6.461 W
4,351.7	13.58	9.10	4,265.0	745.3	119.4	1,292,951.93	3,125,420.91	40° 8' 12.033 N	105° 3' 5.086 W
Sussex									
4,804.4	13.58	9.10	4,705.0	850.3	136.3	1,293,056.99	3,125,437.20	40° 8' 13.071 N	105° 3' 4.870 W
Shannon									
6,514.3	13.58	9.10	6,367.1	1,246.9	199.8	1,293,453.87	3,125,498.74	40° 8' 16.990 N	105° 3' 4.051 W
7,193.5	0.00	0.00	7,040.0	1,326.0	212.5	1,293,533.07	3,125,511.02	40° 8' 17.772 N	105° 3' 3.888 W
7,373.5	0.00	0.00	7,220.0	1,326.0	212.5	1,293,533.07	3,125,511.02	40° 8' 17.772 N	105° 3' 3.888 W
Niobrara									
7,655.5	0.00	0.00	7,502.0	1,326.0	212.5	1,293,533.07	3,125,511.02	40° 8' 17.772 N	105° 3' 3.888 W
Codell									
8,093.5	0.00	0.00	7,940.0	1,326.0	212.5	1,293,533.07	3,125,511.02	40° 8' 17.772 N	105° 3' 3.888 W
J Sand									
8,143.5	0.00	0.00	7,990.0	1,326.0	212.5	1,293,533.07	3,125,511.02	40° 8' 17.772 N	105° 3' 3.888 W
A Marker									
8,243.5	0.00	0.00	8,090.0	1,326.0	212.5	1,293,533.07	3,125,511.02	40° 8' 17.772 N	105° 3' 3.888 W
Production - Williams 2-4-18									

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										
Williams 2-4-18	0.00	0.00	8,090.0	1,326.0	212.5	1,293,533.07	3,125,511.02	40° 8' 17.772 N	105° 3' 3.888 W	
- plan hits target										
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
750.0	750.0	Surface	8.625	12.250		
8,243.5	8,090.0	Production	4.500	7.785		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,351.7	4,265.0	Sussex		0.00		
4,804.4	4,705.0	Shannon		0.00		
7,373.5	7,220.0	Niobrara		0.00		
7,655.5	7,502.0	Codell		0.00		
8,093.5	7,940.0	J Sand		0.00		
8,143.5	7,990.0	A Marker		0.00		

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<b>Design:</b>	Williams 2-4-18		