

## REFERENCE INFORMATION

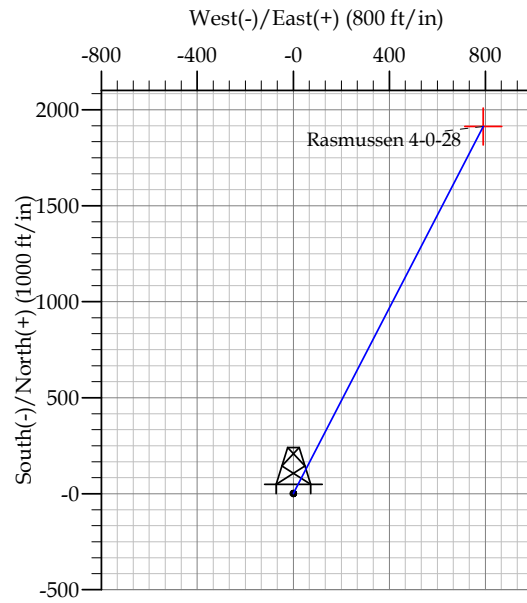
Co-ordinate (N/E) Reference: Well Rasmussen 4-0-28, True North  
Vertical (TVD) Reference: WELL @ 4948.0ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.0N, 0.0E)  
Measured Depth Reference: WELL @ 4948.0ft (Original Well Elev)  
Calculation Method:

## WELL DETAILS: Rasmussen 4-0-28

+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude	Slot
0.0	0.0	1283840.35	4935.0	3136703.30	40° 6' 41.400 N	105° 0' 40.464 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	850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.0	
3	1951.9	22.04	22.48	1924.9	193.4	80.0	2.00	22.48	209.3	
4	6352.6	22.04	22.48	6004.1	1719.1	711.4	0.00	0.00	1860.5	
5	7454.5	0.00	0.00	7079.0	1912.5	791.5	2.00	180.00	2069.8	
6	8504.5	0.00	0.00	8129.0	1912.5	791.5	0.00	0.00	2069.8	Rasmussen 4-0-28



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4398.0	4619.9	Sussex
4878.0	5137.7	Shannon
7268.0	7643.5	Niobrara
7560.0	7935.5	Codell
7979.0	8354.5	J Sand
8029.0	8404.5	A Marker

## CASING DETAILS

TVD	MD	Name	Size
800.0	800.0	Surface	8.625
8129.0	8504.5	Production	4.500

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Planning Report - Geographic

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Rasmussen 4-0-28
<b>Company:</b>	DJ/Paradox/WTX	<b>TVD Reference:</b>	WELL @ 4948.0ft (Original Well Elev)
<b>Project:</b>	Wattenberg	<b>MD Reference:</b>	WELL @ 4948.0ft (Original Well Elev)
<b>Site:</b>	New Drills	<b>North Reference:</b>	True
<b>Well:</b>	Rasmussen 4-0-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Rasmussen 4-0-28		

<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		Rasmussen 4-0-28				
Well Position	+N/-S	31,300.7 ft	Northing:	1,283,840.35 ft	Latitude:	40° 6' 41.400 N
	+E/-W	16,248.5 ft	Easting:	3,136,703.30 ft	Longitude:	105° 0' 40.464 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,935.0 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	9.13	66.83	53,125

<b>Design</b>	Rasmussen 4-0-28				
<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	22.48	

<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	
850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,951.9	22.04	22.48	1,924.9	193.4	80.0	2.00	2.00	0.00	22.48	
6,352.6	22.04	22.48	6,004.1	1,719.1	711.4	0.00	0.00	0.00	0.00	
7,454.5	0.00	0.00	7,079.0	1,912.5	791.5	2.00	-2.00	0.00	180.00	
8,504.5	0.00	0.00	8,129.0	1,912.5	791.5	0.00	0.00	0.00	0.00	Rasmussen 4-0-28

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<b>Project:</b>	Wattenberg	<b>MD Reference:</b>	WELL @ 4948.0ft (Original Well Elev)
<b>Site:</b>	New Drills	<b>North Reference:</b>	True
<b>Well:</b>	Rasmussen 4-0-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Rasmussen 4-0-28		

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	1,283,840.35	3,136,703.30	40° 6' 41.400 N	105° 0' 40.464 W	
800.0	0.00	0.00	800.0	0.0	0.0	1,283,840.35	3,136,703.30	40° 6' 41.400 N	105° 0' 40.464 W	
Surface										
850.0	0.00	0.00	850.0	0.0	0.0	1,283,840.35	3,136,703.30	40° 6' 41.400 N	105° 0' 40.464 W	
1,951.9	22.04	22.48	1,924.9	193.4	80.0	1,284,034.18	3,136,782.27	40° 6' 43.311 N	105° 0' 39.434 W	
4,619.9	22.04	22.48	4,398.0	1,118.4	462.8	1,284,961.26	3,137,159.97	40° 6' 52.452 N	105° 0' 34.506 W	
Sussex										
5,137.7	22.04	22.48	4,878.0	1,297.9	537.1	1,285,141.20	3,137,233.28	40° 6' 54.226 N	105° 0' 33.550 W	
Shannon										
6,352.6	22.04	22.48	6,004.1	1,719.1	711.4	1,285,563.33	3,137,405.26	40° 6' 58.389 N	105° 0' 31.306 W	
7,454.5	0.00	0.00	7,079.0	1,912.5	791.5	1,285,757.17	3,137,484.23	40° 7' 0.300 N	105° 0' 30.276 W	
7,643.5	0.00	0.00	7,268.0	1,912.5	791.5	1,285,757.17	3,137,484.23	40° 7' 0.300 N	105° 0' 30.276 W	
Niobrara										
7,935.5	0.00	0.00	7,560.0	1,912.5	791.5	1,285,757.17	3,137,484.23	40° 7' 0.300 N	105° 0' 30.276 W	
Codell										
8,354.5	0.00	0.00	7,979.0	1,912.5	791.5	1,285,757.17	3,137,484.23	40° 7' 0.300 N	105° 0' 30.276 W	
J Sand										
8,404.5	0.00	0.00	8,029.0	1,912.5	791.5	1,285,757.17	3,137,484.23	40° 7' 0.300 N	105° 0' 30.276 W	
A Marker										
8,504.5	0.00	0.00	8,129.0	1,912.5	791.5	1,285,757.17	3,137,484.23	40° 7' 0.300 N	105° 0' 30.276 W	
Production - Rasmussen 4-0-28										

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										
Rasmussen 4-0-28	0.00	0.00	8,129.0	1,912.5	791.5	1,285,757.17	3,137,484.23	40° 7' 0.300 N	105° 0' 30.276 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		
8,504.5	8,129.0	Production	4.500	7.785		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,619.9	4,398.0	Sussex		0.00		
5,137.7	4,878.0	Shannon		0.00		
7,643.5	7,268.0	Niobrara		0.00		
7,935.5	7,560.0	Codell		0.00		
8,354.5	7,979.0	J Sand		0.00		
8,404.5	8,029.0	A Marker		0.00		

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<b>Design:</b>	Rasmussen 4-0-28		