

REFERENCE INFORMATION

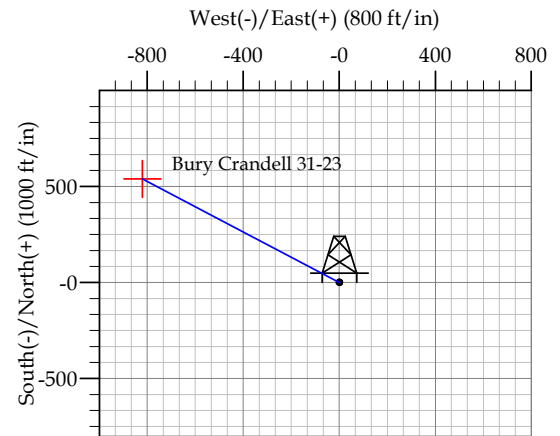
Co-ordinate (N/E) Reference: Well Bury Crandell 31-23, True North
Vertical (TVD) Reference: WELL @ 5126.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: WELL @ 5126.0ft (Original Well Elev)
Calculation Method:

WELL DETAILS: Bury Crandell 31-23

+N/-S	+E/-W	Northing	Ground Level:	5113.0	Longitude	Slot
0.0	0.0	1258325.05	Easting	3149796.20	40° 2' 28.500 N04° 57' 53.928 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	1140.0	0.00	0.00	1140.0	0.0	0.0	0.00	0.00	0.0	
3	1635.9	9.92	303.31	1633.5	23.5	-35.8	2.00	303.31	42.8	
4	6837.8	9.92	303.31	6757.5	515.6	-784.6	0.00	0.00	938.8	
5	7333.7	0.00	0.00	7251.0	539.2	-820.3	2.00	180.00	981.7	
6	8533.7	0.00	0.00	8451.0	539.2	-820.3	0.00	0.00	981.7	Bury Crandell 31-23



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4686.0	4734.8	Sussex
5256.0	5313.4	Shannon
7476.0	7558.7	Niobrara
7856.0	7938.7	Codell
8301.0	8383.7	J Sand
8356.0	8438.7	A Marker

CASING DETAILS

TVD	MD	Name	Size
1090.0	1090.0	Surface	8.625
8451.0	8533.7	Production	4.500

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Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Bury Crandell 31-23
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 5126.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 5126.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Bury Crandell 31-23	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Bury Crandell 31-23		

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	Bury Crandell 31-23					
Well Position	+N-S	5,698.3 ft	Northing:	1,258,325.05 ft	Latitude:	40° 2' 28.500 N
	+E-W	29,203.5 ft	Easting:	3,149,796.20 ft	Longitude:	104° 57' 53.928 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	5,113.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.10	66.78	53,091

Design	Bury Crandell 31-23				
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	303.31	

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	
1,140.0	0.00	0.00	1,140.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,635.9	9.92	303.31	1,633.5	23.5	-35.8	2.00	2.00	0.00	303.31	
6,837.8	9.92	303.31	6,757.5	515.6	-784.6	0.00	0.00	0.00	0.00	
7,333.7	0.00	0.00	7,251.0	539.2	-820.3	2.00	-2.00	0.00	180.00	
8,533.7	0.00	0.00	8,451.0	539.2	-820.3	0.00	0.00	0.00	0.00	Bury Crandell 31-23

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Project:	Wattenberg	MD Reference:	WELL @ 5126.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Bury Crandell 31-23	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Bury Crandell 31-23		

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	1,258,325.05	3,149,796.20	40° 2' 28.500 N	104° 57' 53.928 W	
1,090.0	0.00	0.00	1,090.0	0.0	0.0	1,258,325.05	3,149,796.20	40° 2' 28.500 N	104° 57' 53.928 W	
Surface										
1,140.0	0.00	0.00	1,140.0	0.0	0.0	1,258,325.05	3,149,796.20	40° 2' 28.500 N	104° 57' 53.928 W	
1,635.9	9.92	303.31	1,633.5	23.5	-35.8	1,258,348.35	3,149,760.28	40° 2' 28.732 N	104° 57' 54.388 W	
4,734.8	9.92	303.31	4,686.0	316.7	-481.8	1,258,638.82	3,149,312.46	40° 2' 31.629 N	104° 58' 0.124 W	
Sussex										
5,313.4	9.92	303.31	5,256.0	371.4	-565.1	1,258,693.06	3,149,228.84	40° 2' 32.170 N	104° 58' 1.195 W	
Shannon										
6,837.8	9.92	303.31	6,757.5	515.6	-784.6	1,258,835.94	3,149,008.55	40° 2' 33.596 N	104° 58' 4.016 W	
7,333.7	0.00	0.00	7,251.0	539.2	-820.3	1,258,859.24	3,148,972.63	40° 2' 33.828 N	104° 58' 4.476 W	
7,558.7	0.00	0.00	7,476.0	539.2	-820.3	1,258,859.24	3,148,972.63	40° 2' 33.828 N	104° 58' 4.476 W	
Niobrara										
7,938.7	0.00	0.00	7,856.0	539.2	-820.3	1,258,859.24	3,148,972.63	40° 2' 33.828 N	104° 58' 4.476 W	
Codell										
8,383.7	0.00	0.00	8,301.0	539.2	-820.3	1,258,859.24	3,148,972.63	40° 2' 33.828 N	104° 58' 4.476 W	
J Sand										
8,438.7	0.00	0.00	8,356.0	539.2	-820.3	1,258,859.24	3,148,972.63	40° 2' 33.828 N	104° 58' 4.476 W	
A Marker										
8,533.7	0.00	0.00	8,451.0	539.2	-820.3	1,258,859.24	3,148,972.63	40° 2' 33.828 N	104° 58' 4.476 W	
Production - Bury Crandell 31-23										

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										
Bury Crandell 31-23	0.00	0.00	8,451.0	539.2	-820.3	1,258,859.24	3,148,972.63	40° 2' 33.828 N	104° 58' 4.476 W	
- plan hits target										
- Point										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,090.0	1,090.0	Surface	8.625	12.250	
8,533.7	8,451.0	Production	4.500	7.785	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,734.8	4,686.0	Sussex		0.00		
5,313.4	5,256.0	Shannon		0.00		
7,558.7	7,476.0	Niobrara		0.00		
7,938.7	7,856.0	Codell		0.00		
8,383.7	8,301.0	J Sand		0.00		
8,438.7	8,356.0	A Marker		0.00		

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