

REFERENCE INFORMATION

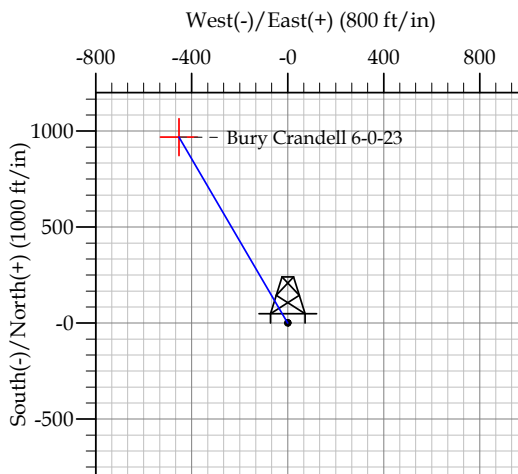
Co-ordinate (N/E) Reference: Well Bury Crandell 6-0-23, True North
Vertical (TVD) Reference: WELL @ 5125.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: WELL @ 5125.0ft (Original Well Elev)
Calculation Method:

WELL DETAILS: Bury Crandell 6-0-23

+N/-S	+E/-W	Northing	Ground Level:	5112.0	Latitude	Longitude	Slot
0.0	0.0	1258365.54	Easting	3149865.96	40° 2' 28.896 N	04° 57' 53.028 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	1683.7	10.87	334.92	1680.4	46.6	-21.8	2.00	334.92	51.4	
4	6809.9	10.87	334.92	6714.6	922.4	-431.8	0.00	0.00	1018.4	
5	7353.6	0.00	0.00	7255.0	969.0	-453.6	2.00	180.00	1069.9	
6	8553.6	0.00	0.00	8455.0	969.0	-453.6	0.00	0.00	1069.9	Bury Crandell 6-0-23



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
4710.0	4768.6	Sussex
5260.0	5328.7	Shannon
7480.0	7578.6	Niobrara
7863.0	7961.6	Codell
8305.0	8403.6	J Sand
8357.0	8455.6	A Marker

CASING DETAILS

TVD	MD	Name	Size
1090.0	1090.0	Surface	8.625
8455.0	8553.6	Production	4.500

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Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Bury Crandell 6-0-23
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 5125.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 5125.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Bury Crandell 6-0-23	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Bury Crandell 6-0-23		

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

Well	Bury Crandell 6-0-23					
Well Position	+N-S	5,738.3 ft	Northing:	1,258,365.54 ft	Latitude:	40° 2' 28.896 N
	+E-W	29,273.5 ft	Easting:	3,149,865.96 ft	Longitude:	104° 57' 53.028 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	5,112.0ft

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 6-0-23				
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	334.92	

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	
1,683.7	10.87	334.92	1,680.4	46.6	-21.8	2.00	2.00	0.00	334.92	
6,809.9	10.87	334.92	6,714.6	922.4	-431.8	0.00	0.00	0.00	0.00	
7,353.6	0.00	0.00	7,255.0	969.0	-453.6	2.00	-2.00	0.00	180.00	
8,553.6	0.00	0.00	8,455.0	969.0	-453.6	0.00	0.00	0.00	0.00	Bury Crandell 6-0-2

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Project:	Wattenberg	MD Reference:	WELL @ 5125.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Bury Crandell 6-0-23	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Bury Crandell 6-0-23		

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	1,258,365.54	3,149,865.96	40° 2' 28.896 N	104° 57' 53.028 W	
1,090.0	0.00	0.00	1,090.0	0.0	0.0	1,258,365.54	3,149,865.96	40° 2' 28.896 N	104° 57' 53.028 W	
Surface										
1,140.0	0.00	0.00	1,140.0	0.0	0.0	1,258,365.54	3,149,865.96	40° 2' 28.896 N	104° 57' 53.028 W	
1,683.7	10.87	334.92	1,680.4	46.6	-21.8	1,258,411.99	3,149,843.87	40° 2' 29.356 N	104° 57' 53.308 W	
4,768.6	10.87	334.92	4,710.0	573.7	-268.5	1,258,937.57	3,149,593.99	40° 2' 34.565 N	104° 57' 56.481 W	
Sussex										
5,328.7	10.87	334.92	5,260.0	669.3	-313.3	1,259,032.98	3,149,548.62	40° 2' 35.511 N	104° 57' 57.056 W	
Shannon										
6,809.9	10.87	334.92	6,714.6	922.4	-431.8	1,259,285.32	3,149,428.65	40° 2' 38.012 N	104° 57' 58.580 W	
7,353.6	0.00	0.00	7,255.0	969.0	-453.6	1,259,331.77	3,149,406.56	40° 2' 38.472 N	104° 57' 58.860 W	
7,578.6	0.00	0.00	7,480.0	969.0	-453.6	1,259,331.77	3,149,406.56	40° 2' 38.472 N	104° 57' 58.860 W	
Niobrara										
7,961.6	0.00	0.00	7,863.0	969.0	-453.6	1,259,331.77	3,149,406.56	40° 2' 38.472 N	104° 57' 58.860 W	
Codell										
8,403.6	0.00	0.00	8,305.0	969.0	-453.6	1,259,331.77	3,149,406.56	40° 2' 38.472 N	104° 57' 58.860 W	
J Sand										
8,455.6	0.00	0.00	8,357.0	969.0	-453.6	1,259,331.77	3,149,406.56	40° 2' 38.472 N	104° 57' 58.860 W	
A Marker										
8,553.6	0.00	0.00	8,455.0	969.0	-453.6	1,259,331.77	3,149,406.56	40° 2' 38.472 N	104° 57' 58.860 W	
Production - Bury Crandell 6-0-23										

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 6-0-23	0.00	0.00	8,455.0	969.0	-453.6	1,259,331.77	3,149,406.56	40° 2' 38.472 N	104° 57' 58.860 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	
8,553.6	8,455.0	Production	4.500	7.785	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,768.6	4,710.0	Sussex		0.00		
5,328.7	5,260.0	Shannon		0.00		
7,578.6	7,480.0	Niobrara		0.00		
7,961.6	7,863.0	Codell		0.00		
8,403.6	8,305.0	J Sand		0.00		
8,455.6	8,357.0	A Marker		0.00		

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