

REFERENCE INFORMATION

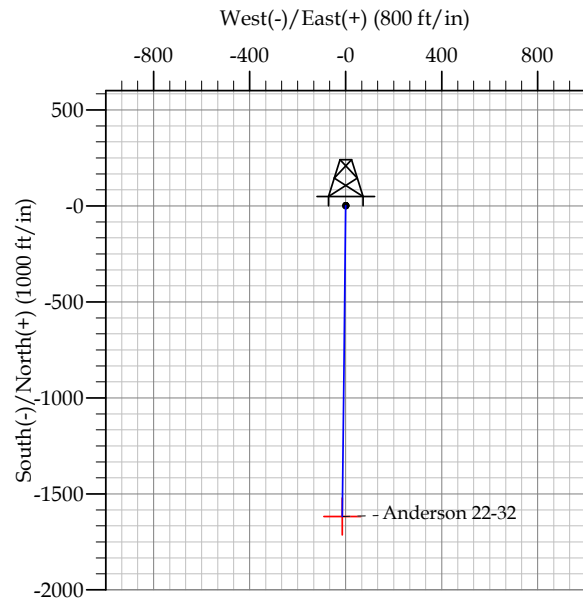
Co-ordinate (N/E) Reference: Well Anderson 22-32, True North
Vertical (TVD) Reference: WELL @ 4950.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: WELL @ 4950.0ft (Original Well Elev)
Calculation Method:

WELL DETAILS: Anderson 22-32

+N/-S	+E/-W	Northing	Ground Level: Easting	4937.0 Latitude	Longitude	Slot
0.0	0.0	1279969.24	3131541.00	40° 6' 3.420 N105° 1' 47.172 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	1696.6	16.93	180.50	1684.3	-124.2	-1.1	2.00	180.50	124.2	
4	6397.7	16.93	180.50	6181.7	-1493.2	-12.9	0.00	0.00	1493.3	
5	7244.3	0.00	0.00	7016.0	-1617.4	-14.0	2.00	180.00	1617.4	
6	8344.3	0.00	0.00	8116.0	-1617.4	-14.0	0.00	0.00	1617.4	Anderson 22-32



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4365.0	4498.7	Sussex
4847.0	5002.6	Shannon
7242.0	7470.3	Niobrara
7546.0	7774.3	Codell
7966.0	8194.3	J Sand
8010.0	8238.3	A Marker

CASING DETAILS

TVD	MD	Name	Size
800.0	800.0	Surface	8.625
8116.0	8344.3	Production	4.500

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Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Anderson 22-32
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4950.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4950.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Anderson 22-32	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Anderson 22-32		

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:	1,278,589.08ft	Latitude:	40° 5' 49.848 N	
From:	Lat/Long	Easting:	3,130,247.44ft	Longitude:	105° 2' 3.912 W	
Position Uncertainty:		ft	Slot Radius:	in	Grid Convergence:	0.30 °

Well	Anderson 22-32					
Well Position	+N-S	1,373.3 ft	Northing:	1,279,969.24 ft	Latitude:	40° 6' 3.420 N
	+E-W	1,300.9 ft	Easting:	3,131,541.00 ft	Longitude:	105° 1' 47.172 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,937.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.14	66.82	53,117

Design	Anderson 22-32				
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	180.50	

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	
850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,696.6	16.93	180.50	1,684.3	-124.2	-1.1	2.00	2.00	0.00	180.50	
6,397.7	16.93	180.50	6,181.7	-1,493.2	-12.9	0.00	0.00	0.00	0.00	
7,244.3	0.00	0.00	7,016.0	-1,617.4	-14.0	2.00	-2.00	0.00	180.00	
8,344.3	0.00	0.00	8,116.0	-1,617.4	-14.0	0.00	0.00	0.00	0.00	Anderson 22-32

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Project:	Wattenberg	MD Reference:	WELL @ 4950.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Anderson 22-32	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Anderson 22-32		

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	1,279,969.24	3,131,541.00	40° 6' 3.420 N	105° 1' 47.172 W	
800.0	0.00	0.00	800.0	0.0	0.0	1,279,969.24	3,131,541.00	40° 6' 3.420 N	105° 1' 47.172 W	
Surface										
850.0	0.00	0.00	850.0	0.0	0.0	1,279,969.24	3,131,541.00	40° 6' 3.420 N	105° 1' 47.172 W	
1,696.6	16.93	180.50	1,684.3	-124.2	-1.1	1,279,845.07	3,131,540.59	40° 6' 2.193 N	105° 1' 47.186 W	
4,498.7	16.93	180.50	4,365.0	-940.2	-8.1	1,279,029.01	3,131,537.86	40° 5' 54.128 N	105° 1' 47.277 W	
Sussex										
5,002.6	16.93	180.50	4,847.0	-1,086.9	-9.4	1,278,882.29	3,131,537.37	40° 5' 52.678 N	105° 1' 47.293 W	
Shannon										
6,397.7	16.93	180.50	6,181.7	-1,493.2	-12.9	1,278,475.98	3,131,536.01	40° 5' 48.663 N	105° 1' 47.338 W	
7,244.3	0.00	0.00	7,016.0	-1,617.4	-14.0	1,278,351.80	3,131,535.59	40° 5' 47.436 N	105° 1' 47.352 W	
7,470.3	0.00	0.00	7,242.0	-1,617.4	-14.0	1,278,351.80	3,131,535.59	40° 5' 47.436 N	105° 1' 47.352 W	
Niobrara										
7,774.3	0.00	0.00	7,546.0	-1,617.4	-14.0	1,278,351.80	3,131,535.59	40° 5' 47.436 N	105° 1' 47.352 W	
Codell										
8,194.3	0.00	0.00	7,966.0	-1,617.4	-14.0	1,278,351.80	3,131,535.59	40° 5' 47.436 N	105° 1' 47.352 W	
J Sand										
8,238.3	0.00	0.00	8,010.0	-1,617.4	-14.0	1,278,351.80	3,131,535.59	40° 5' 47.436 N	105° 1' 47.352 W	
A Marker										
8,344.3	0.00	0.00	8,116.0	-1,617.4	-14.0	1,278,351.80	3,131,535.59	40° 5' 47.436 N	105° 1' 47.352 W	
Production - Anderson 22-32										

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										
Anderson 22-32	0.00	0.00	8,116.0	-1,617.4	-14.0	1,278,351.80	3,131,535.59	40° 5' 47.436 N	105° 1' 47.352 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	
8,344.3	8,116.0	Production	4.500	7.785	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,498.7	4,365.0	Sussex		0.00		
5,002.6	4,847.0	Shannon		0.00		
7,470.3	7,242.0	Niobrara		0.00		
7,774.3	7,546.0	Codell		0.00		
8,194.3	7,966.0	J Sand		0.00		
8,238.3	8,010.0	A Marker		0.00		

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