

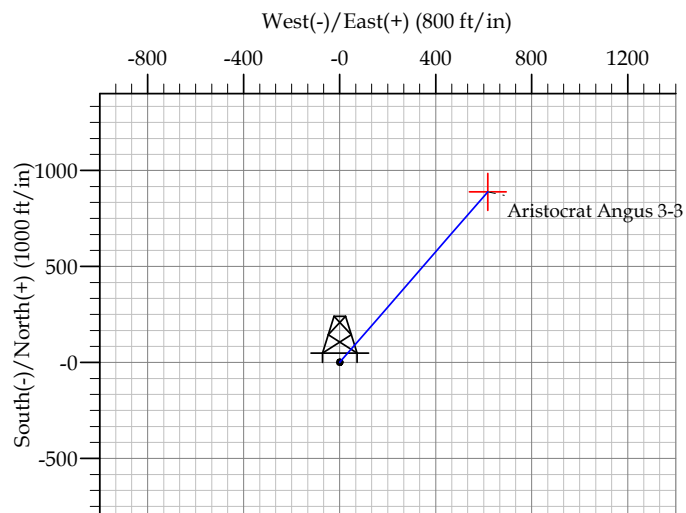
Co-ordinate (N/E) Reference: Well Aristocrat Angus 3-3, True North
Vertical (TVD) Reference: WELL @ 4819.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: WELL @ 4819.0ft (Original Well Elev)
Calculation Method:

WELL DETAILS: Aristocrat Angus 3-3

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude	Slot
0.0	0.0	1334439.79	3235520.77	40° 14' 54.096 N	04° 39' 22.428 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	650.0	0.00	0.00	650.0	0.0	0.0	0.00	0.00	0.0	
3	1213.0	11.26	34.76	1209.4	45.3	31.4	2.00	34.76	55.1	
4	6189.0	11.26	34.76	6089.6	843.6	585.4	0.00	0.00	1026.8	
5	6752.0	0.00	0.00	6649.0	888.9	616.9	2.00	180.00	1082.0	
6	7452.0	0.00	0.00	7349.0	888.9	616.9	0.00	0.00	1082.0	Aristocrat Angus 3-3



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4356.0	4421.4	Sussex
6852.0	6955.0	Niobrara
7139.0	7242.0	Codell
7199.0	7302.0	Greenhorn

CASING DETAILS

TVD	MD	Name	Size
600.0	600.0	Surface	8.625
7349.0	7452.0	Production	4.500

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Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Aristocrat Angus 3-3
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4819.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4819.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Aristocrat Angus 3-3	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Aristocrat Angus 3-3		

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	Aristocrat Angus 3-3					
Well Position	+N-S	54,846.6 ft	Northing:	1,334,439.79 ft	Latitude:	40° 14' 54.096 N
	+E-W	105,800.2 ft	Easting:	3,235,520.77 ft	Longitude:	104° 39' 22.428 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,806.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.95	67.00	53,236

Design	Aristocrat Angus 3-3				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	34.76	

Plan Sections										
Measured										
Depth	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
(ft)	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
650.0	0.00	0.00	650.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,213.0	11.26	34.76	1,209.4	45.3	31.4	2.00	2.00	0.00	34.76	
6,189.0	11.26	34.76	6,089.6	843.6	585.4	0.00	0.00	0.00	0.00	
6,752.0	0.00	0.00	6,649.0	888.9	616.9	2.00	-2.00	0.00	180.00	
7,452.0	0.00	0.00	7,349.0	888.9	616.9	0.00	0.00	0.00	0.00	Aristocrat Angus 3-

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Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Aristocrat Angus 3-3
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4819.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4819.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Aristocrat Angus 3-3	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Aristocrat Angus 3-3		

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	1,334,439.79	3,235,520.77	40° 14' 54.096 N	104° 39' 22.428 W
600.0	0.00	0.00	600.0	0.0	0.0	1,334,439.79	3,235,520.77	40° 14' 54.096 N	104° 39' 22.428 W
Surface									
650.0	0.00	0.00	650.0	0.0	0.0	1,334,439.79	3,235,520.77	40° 14' 54.096 N	104° 39' 22.428 W
1,213.0	11.26	34.76	1,209.4	45.3	31.4	1,334,485.40	3,235,551.78	40° 14' 54.544 N	104° 39' 22.022 W
4,421.4	11.26	34.76	4,356.0	560.0	388.6	1,335,003.47	3,235,904.05	40° 14' 59.630 N	104° 39' 17.416 W
Sussex									
6,189.0	11.26	34.76	6,089.6	843.6	585.4	1,335,288.89	3,236,098.13	40° 15' 2.432 N	104° 39' 14.878 W
6,752.0	0.00	0.00	6,649.0	888.9	616.9	1,335,334.50	3,236,129.14	40° 15' 2.880 N	104° 39' 14.472 W
6,955.0	0.00	0.00	6,852.0	888.9	616.9	1,335,334.50	3,236,129.14	40° 15' 2.880 N	104° 39' 14.472 W
Niobrara									
7,242.0	0.00	0.00	7,139.0	888.9	616.9	1,335,334.50	3,236,129.14	40° 15' 2.880 N	104° 39' 14.472 W
Codell									
7,302.0	0.00	0.00	7,199.0	888.9	616.9	1,335,334.50	3,236,129.14	40° 15' 2.880 N	104° 39' 14.472 W
Greenhorn									
7,452.0	0.00	0.00	7,349.0	888.9	616.9	1,335,334.50	3,236,129.14	40° 15' 2.880 N	104° 39' 14.472 W
Production - Aristocrat Angus 3-3									

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									
Aristocrat Angus 3-3	0.00	0.00	7,349.0	888.9	616.9	1,335,334.50	3,236,129.14	40° 15' 2.880 N	104° 39' 14.472 W
- plan hits target									
- Point									

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
600.0	600.0	Surface	8.625	12.250		
7,452.0	7,349.0	Production	4.500	7.785		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,421.4	4,356.0	Sussex		0.00		
6,955.0	6,852.0	Niobrara		0.00		
7,242.0	7,139.0	Codell		0.00		
7,302.0	7,199.0	Greenhorn		0.00		