



REFERENCE INFORMATION															
Co-ordinate (N/E) Reference: Well Woolley 0-4-8, True North															
Vertical (TVD) Reference: WELL @ 5072.0ft (Original Well Elev)															
Section (VS) Reference: Slot - (0.0N, 0.0E)															
Measured Depth Reference: WELL @ 5072.0ft (Original Well Elev)															
Calculation Method:															
WELL DETAILS: Woolley 0-4-8															
+N/-S		+E/-W		Northing		Ground Level: 5059.0		Easting		Latitude		Longitude		Slot	
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	0.0	0.00	0.00	0.0					
2	950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.0						
3	1398.9	8.98	311.06	1397.1	23.1	-26.5	2.00	311.06	35.1						
4	6919.4	8.98	311.06	6849.9	588.9	-676.1	0.00	0.00	896.6						
5	7368.3	0.00	0.00	7297.0	612.0	-702.5	2.00	180.00	931.7						
6	8468.3	0.00	0.00	8397.0	612.0	-702.5	0.00	0.00	931.7	Woolley 0-4-8					

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Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Woolley 0-4-8
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 5072.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 5072.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Woolley 0-4-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Woolley 0-4-8		

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	Woolley 0-4-8					
Well Position	+N-S	-12,272.5 ft	Northing:	1,266,316.11 ft	Latitude:	40° 3' 48.564 N
	+E-W	-120.3 ft	Easting:	3,130,191.53 ft	Longitude:	105° 2' 5.460 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	5,059.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.14	66.79	53,096

Design	Woolley 0-4-8				
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	311.06	

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	
950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,398.9	8.98	311.06	1,397.1	23.1	-26.5	2.00	2.00	0.00	311.06	
6,919.4	8.98	311.06	6,849.9	588.9	-676.1	0.00	0.00	0.00	0.00	
7,368.3	0.00	0.00	7,297.0	612.0	-702.5	2.00	-2.00	0.00	180.00	
8,468.3	0.00	0.00	8,397.0	612.0	-702.5	0.00	0.00	0.00	0.00	Woolley 0-4-8

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Project:	Wattenberg	MD Reference:	WELL @ 5072.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Woolley 0-4-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Woolley 0-4-8		

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	1,266,316.11	3,130,191.53	40° 3' 48.564 N	105° 2' 5.460 W	
900.0	0.00	0.00	900.0	0.0	0.0	1,266,316.11	3,130,191.53	40° 3' 48.564 N	105° 2' 5.460 W	
Surface										
950.0	0.00	0.00	950.0	0.0	0.0	1,266,316.11	3,130,191.53	40° 3' 48.564 N	105° 2' 5.460 W	
1,398.9	8.98	311.06	1,397.1	23.1	-26.5	1,266,339.03	3,130,164.94	40° 3' 48.792 N	105° 2' 5.800 W	
4,590.9	8.98	311.06	4,550.0	350.3	-402.1	1,266,664.26	3,129,787.63	40° 3' 52.025 N	105° 2' 10.631 W	
Sussex										
5,159.9	8.98	311.06	5,112.0	408.6	-469.0	1,266,722.23	3,129,720.38	40° 3' 52.602 N	105° 2' 11.493 W	
Shannon										
6,919.4	8.98	311.06	6,849.9	588.9	-676.1	1,266,901.50	3,129,512.40	40° 3' 54.384 N	105° 2' 14.156 W	
7,368.3	0.00	0.00	7,297.0	612.0	-702.5	1,266,924.42	3,129,485.81	40° 3' 54.612 N	105° 2' 14.496 W	
7,553.3	0.00	0.00	7,482.0	612.0	-702.5	1,266,924.42	3,129,485.81	40° 3' 54.612 N	105° 2' 14.496 W	
Niobrara										
7,893.3	0.00	0.00	7,822.0	612.0	-702.5	1,266,924.42	3,129,485.81	40° 3' 54.612 N	105° 2' 14.496 W	
Codell										
8,318.3	0.00	0.00	8,247.0	612.0	-702.5	1,266,924.42	3,129,485.81	40° 3' 54.612 N	105° 2' 14.496 W	
J Sand										
8,368.3	0.00	0.00	8,297.0	612.0	-702.5	1,266,924.42	3,129,485.81	40° 3' 54.612 N	105° 2' 14.496 W	
A Marker										
8,468.3	0.00	0.00	8,397.0	612.0	-702.5	1,266,924.42	3,129,485.81	40° 3' 54.612 N	105° 2' 14.496 W	
Production - Woolley 0-4-8										

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										
Woolley 0-4-8	0.00	0.00	8,397.0	612.0	-702.5	1,266,924.42	3,129,485.81	40° 3' 54.612 N	105° 2' 14.496 W	
- plan hits target										
- Point										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
900.0	900.0	Surface	8.625	12.250	
8,468.3	8,397.0	Production	4.500	7.785	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,590.9	4,550.0	Sussex		0.00		
5,159.9	5,112.0	Shannon		0.00		
7,553.3	7,482.0	Niobrara		0.00		
7,893.3	7,822.0	Codell		0.00		
8,318.3	8,247.0	J Sand		0.00		
8,368.3	8,297.0	A Marker		0.00		

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