

REFERENCE INFORMATION

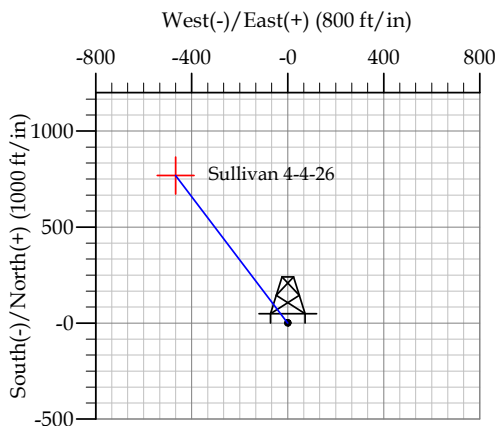
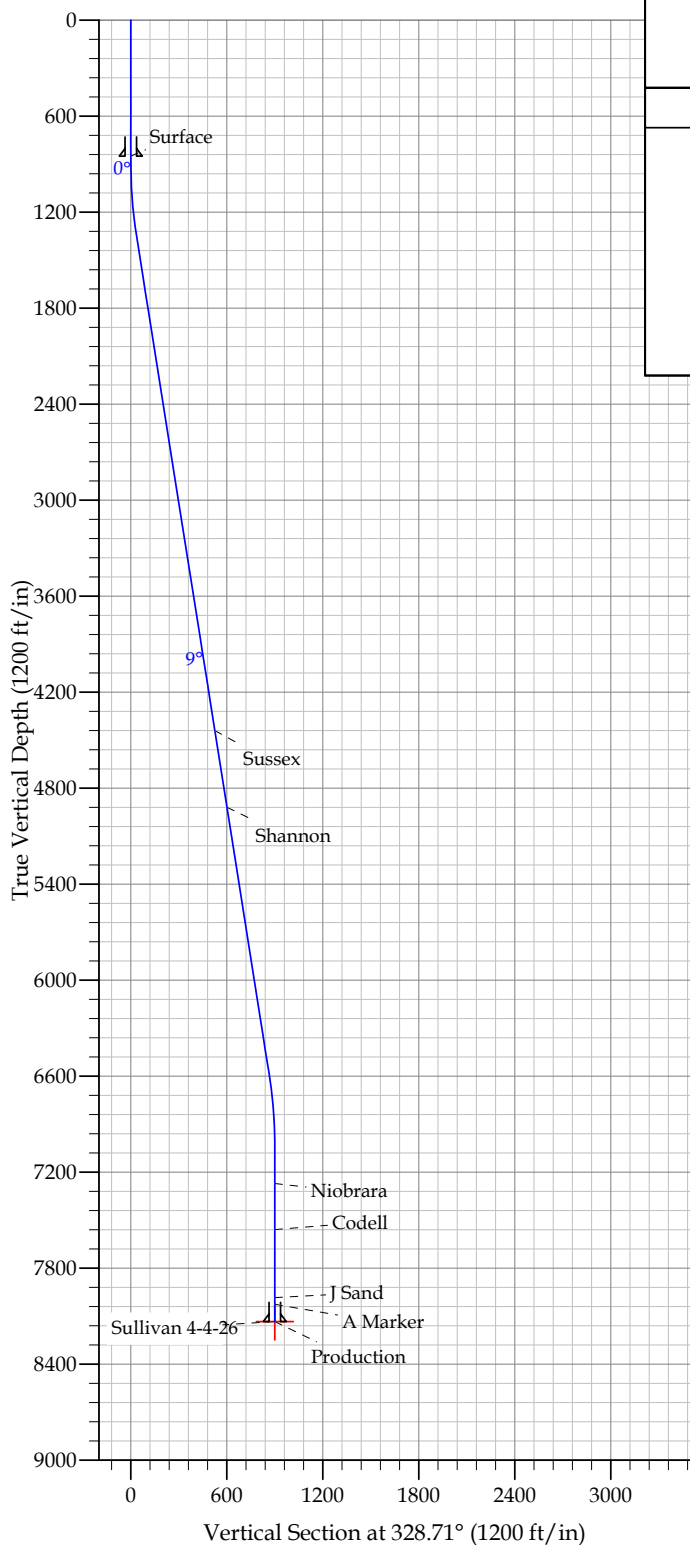
Co-ordinate (NE) Reference: Well Sullivan 4-4-26, True North
 Vertical (TVD) Reference: WELL @ 4951.0ft (Original Well Elev)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: WELL @ 4951.0ft (Original Well Elev)
 Calculation Method:

WELL DETAILS: Sullivan 4-4-26

+N/-S	+E/-W	Northing	Ground Level:	4938.0	Longitude	Slot
0.0	0.0	1282520.54	Easting	3148548.14	40° 6' 27.684 N104° 58' 8.112 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	900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.0	
3	1349.6	8.99	328.71	1347.8	30.1	-18.3	2.00	328.71	35.2	
4	6653.2	8.99	328.71	6586.2	738.5	-448.8	0.00	0.00	864.2	
5	7102.9	0.00	0.00	7034.0	768.6	-467.1	2.00	180.00	899.4	
6	8202.9	0.00	0.00	8134.0	768.6	-467.1	0.00	0.00	899.4	Sullivan 4-4-26



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4441.0	4481.3	Sussex
4921.0	4967.3	Shannon
7271.0	7339.9	Niobrara
7559.0	7627.9	Codell
7984.0	8052.9	J Sand
8026.0	8094.9	A Marker

CASING DETAILS

TVD	MD	Name	Size
850.0	850.0	Surface	8.625
8134.0	8202.9	Production	4.500

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Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Well Sullivan 4-4-26
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4951.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4951.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Sullivan 4-4-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Sullivan 4-4-26		

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	Sullivan 4-4-26					
Well Position	+N-S	29,902.2 ft	Northing:	1,282,520.54 ft	Latitude:	40° 6' 27.684 N
	+E-W	28,100.1 ft	Easting:	3,148,548.14 ft	Longitude:	104° 58' 8.112 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,938.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.11	66.84	53,127

Design	Sullivan 4-4-26			
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	328.71

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	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,349.6	8.99	328.71	1,347.8	30.1	-18.3	2.00	2.00	0.00	328.71	
6,653.2	8.99	328.71	6,586.2	738.5	-448.8	0.00	0.00	0.00	0.00	
7,102.9	0.00	0.00	7,034.0	768.6	-467.1	2.00	-2.00	0.00	180.00	
8,202.9	0.00	0.00	8,134.0	768.6	-467.1	0.00	0.00	0.00	0.00	Sullivan 4-4-26

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Project:	Wattenberg	MD Reference:	WELL @ 4951.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Sullivan 4-4-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Sullivan 4-4-26		

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	1,282,520.54	3,148,548.14	40° 6' 27.684 N	104° 58' 8.112 W	
850.0	0.00	0.00	850.0	0.0	0.0	1,282,520.54	3,148,548.14	40° 6' 27.684 N	104° 58' 8.112 W	
Surface										
900.0	0.00	0.00	900.0	0.0	0.0	1,282,520.54	3,148,548.14	40° 6' 27.684 N	104° 58' 8.112 W	
1,349.6	8.99	328.71	1,347.8	30.1	-18.3	1,282,550.52	3,148,529.67	40° 6' 27.981 N	104° 58' 8.347 W	
4,481.3	8.99	328.71	4,441.0	448.4	-272.5	1,282,967.32	3,148,272.95	40° 6' 32.115 N	104° 58' 11.619 W	
Sussex										
4,967.3	8.99	328.71	4,921.0	513.3	-312.0	1,283,032.00	3,148,233.11	40° 6' 32.757 N	104° 58' 12.127 W	
Shannon										
6,653.2	8.99	328.71	6,586.2	738.5	-448.8	1,283,256.38	3,148,094.91	40° 6' 34.983 N	104° 58' 13.889 W	
7,102.9	0.00	0.00	7,034.0	768.6	-467.1	1,283,286.37	3,148,076.44	40° 6' 35.280 N	104° 58' 14.124 W	
7,339.9	0.00	0.00	7,271.0	768.6	-467.1	1,283,286.37	3,148,076.44	40° 6' 35.280 N	104° 58' 14.124 W	
Niobrara										
7,627.9	0.00	0.00	7,559.0	768.6	-467.1	1,283,286.37	3,148,076.44	40° 6' 35.280 N	104° 58' 14.124 W	
Codell										
8,052.9	0.00	0.00	7,984.0	768.6	-467.1	1,283,286.37	3,148,076.44	40° 6' 35.280 N	104° 58' 14.124 W	
J Sand										
8,094.9	0.00	0.00	8,026.0	768.6	-467.1	1,283,286.37	3,148,076.44	40° 6' 35.280 N	104° 58' 14.124 W	
A Marker										
8,202.9	0.00	0.00	8,134.0	768.6	-467.1	1,283,286.37	3,148,076.44	40° 6' 35.280 N	104° 58' 14.124 W	
Production - Sullivan 4-4-26										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
Sullivan 4-4-26 - hit/miss target - Shape - Point	0.00	0.00	8,134.0	768.6	-467.1	1,283,286.37	3,148,076.44	40° 6' 35.280 N	104° 58' 14.124 W	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
850.0	850.0	Surface	8.625	12.250		
8,202.9	8,134.0	Production	4.500	7.785		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,481.3	4,441.0	Sussex		0.00		
4,967.3	4,921.0	Shannon		0.00		
7,339.9	7,271.0	Niobrara		0.00		
7,627.9	7,559.0	Codell		0.00		
8,052.9	7,984.0	J Sand		0.00		
8,094.9	8,026.0	A Marker		0.00		

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