



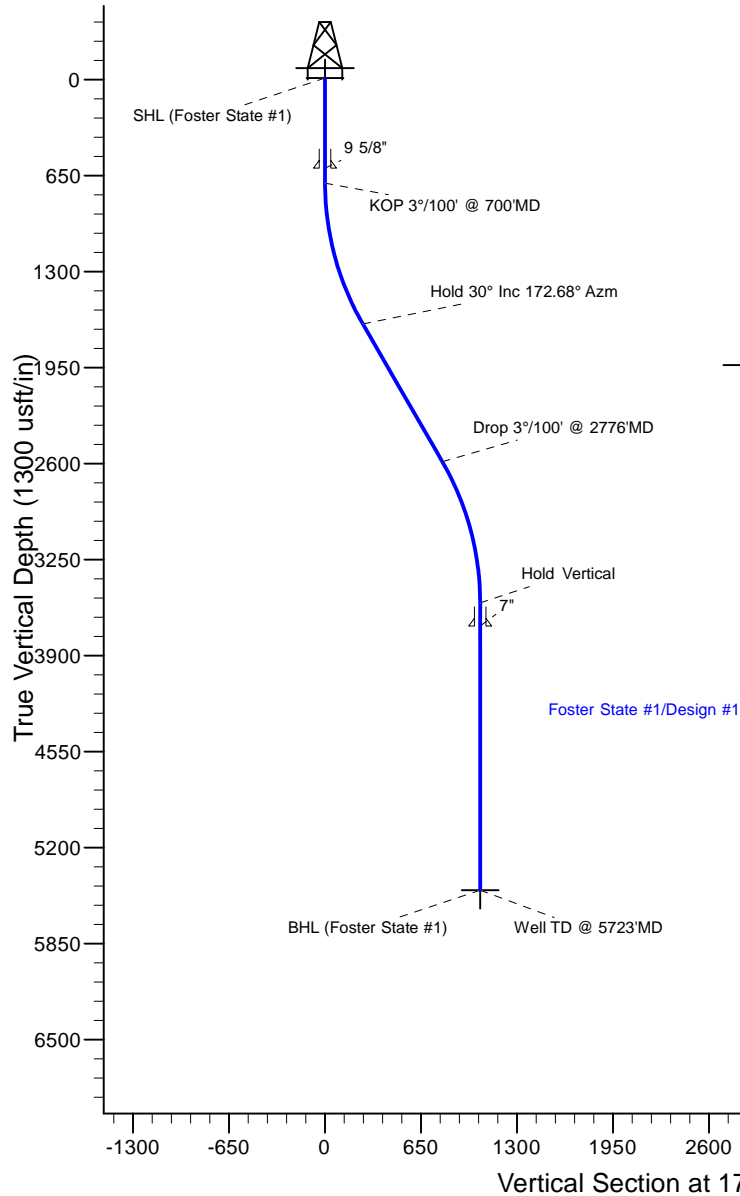
Company: Robert L. Bayless Producer LLC
Field: Moffat County, CO (NAD27)
Location: Foster State #1
Well: Foster State #1
Original Wellbore
Plan: Design #1 (Foster State #1/Original Wellbore)
RKB @ 6825.0usft
GL: 6811' + 14' KB



PROJECT DETAILS: Moffat County, CO (NAD27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Colorado North 501

System Datum: Mean Sea Level

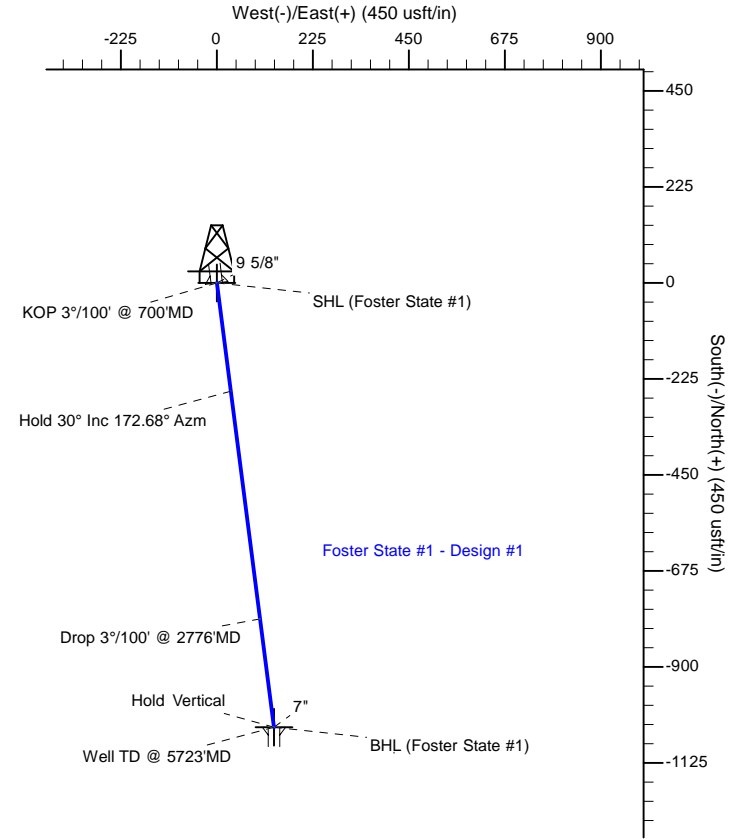


Azimuths to True North
Magnetic North: 9.84°

Magnetic Field
Strength: 52245.6snT
Dip Angle: 66.36°
Date: 05/15/2015
Model: IGRF2015

ANNOTATIONS

TVD	MD	Annotation
700.0	700.0	KOP 3°/100' @ 700'MD
1654.9	1700.0	Hold 30° Inc 172.68° Azm
2586.9	2776.2	Drop 3°/100' @ 2776'MD
3541.8	3776.2	Hold Vertical
5489.0	5723.3	Well TD @ 5723'MD



WELL DETAILS: Foster State #1

Ground Level: 6811.0
RKB @ 6825.0usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	367185.03	1410898.44	40° 19' 19.470 N	107° 36' 46.450 W	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SHL (Foster State #1)	-11.0	0.0	0.0	367185.03	1410898.44	40° 19' 19.470 N	107° 36' 46.450 W	Point
BHL (Foster State #1)	5489.0	-1041.3	133.8	366140.87	1411007.40	40° 19' 9.180 N	107° 36' 44.722 W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.0	KOP 3°/100' @ 700'MD
3	1700.0	30.00	172.68	1654.9	-253.8	32.6	3.00	172.68	255.9	Hold 30° Inc 172.68° Azm
4	2776.2	30.00	172.68	2586.9	-787.5	101.2	0.00	0.00	794.0	Drop 3°/100' @ 2776'MD
5	3776.2	0.00	0.00	3541.8	-1041.3	133.8	3.00	180.00	1049.8	Hold Vertical
6	5723.3	0.00	0.00	5489.0	-1041.3	133.8	0.00	0.00	1049.8	Well TD @ 5723'MD

Plan: Design #1 (Foster State #1/Original Wellbore)

Created By: Zach Lofties Date: 10:10, May 15 2015

Robert L. Bayless Producer LLC

Moffat County, CO (NAD27)

Foster State #1

Foster State #1

Original Wellbore

Plan: Design #1

Standard Planning Report

15 May, 2015

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Foster State #1
Company:	Robert L. Bayless Producer LLC	TVD Reference:	RKB @ 6825.0usft
Project:	Moffat County, CO (NAD27)	MD Reference:	RKB @ 6825.0usft
Site:	Foster State #1	North Reference:	True
Well:	Foster State #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #1		

Project	Moffat County, CO (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado North 501		

Site		Foster State #1			
Site Position:		Northing:	367,185.03 usft	Latitude:	40° 19' 19.470 N
From:	Lat/Long	Easting:	1,410,898.44 usft	Longitude:	107° 36' 46.450 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.37

Well	Foster State #1					
Well Position	+N-S	0.0 usft	Northing:	367,185.03 usft	Latitude:	40° 19' 19.470 N
	+E-W	0.0 usft	Easting:	1,410,898.44 usft	Longitude:	107° 36' 46.450 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	6,811.0 usft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/15/15	9.84	66.36	52,246

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	172.68

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	30.00	172.68	1,654.9	-253.8	32.6	3.00	3.00	0.00	172.68	
2,776.2	30.00	172.68	2,586.9	-787.5	101.2	0.00	0.00	0.00	0.00	
3,776.2	0.00	0.00	3,541.8	-1,041.3	133.8	3.00	-3.00	0.00	180.00	
5,723.3	0.00	0.00	5,489.0	-1,041.3	133.8	0.00	0.00	0.00	0.00	BHL (Foster State #

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Foster State #1
Company:	Robert L. Bayless Producer LLC	TVD Reference:	RKB @ 6825.0usft
Project:	Moffat County, CO (NAD27)	MD Reference:	RKB @ 6825.0usft
Site:	Foster State #1	North Reference:	True
Well:	Foster State #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL (Foster State #1)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 3°/100' @ 700'MD									
800.0	3.00	172.68	800.0	-2.6	0.3	2.6	3.00	3.00	0.00
900.0	6.00	172.68	899.6	-10.4	1.3	10.5	3.00	3.00	0.00
1,000.0	9.00	172.68	998.8	-23.3	3.0	23.5	3.00	3.00	0.00
1,100.0	12.00	172.68	1,097.1	-41.4	5.3	41.7	3.00	3.00	0.00
1,200.0	15.00	172.68	1,194.3	-64.5	8.3	65.1	3.00	3.00	0.00
1,300.0	18.00	172.68	1,290.2	-92.7	11.9	93.5	3.00	3.00	0.00
1,400.0	21.00	172.68	1,384.4	-125.8	16.2	126.9	3.00	3.00	0.00
1,500.0	24.00	172.68	1,476.8	-163.8	21.0	165.1	3.00	3.00	0.00
1,600.0	27.00	172.68	1,567.1	-206.5	26.5	208.2	3.00	3.00	0.00
1,700.0	30.00	172.68	1,654.9	-253.8	32.6	255.9	3.00	3.00	0.00
Hold 30° Inc 172.68° Azm									
1,800.0	30.00	172.68	1,741.5	-303.4	39.0	305.9	0.00	0.00	0.00
1,900.0	30.00	172.68	1,828.1	-353.0	45.4	355.9	0.00	0.00	0.00
2,000.0	30.00	172.68	1,914.7	-402.6	51.7	405.9	0.00	0.00	0.00
2,100.0	30.00	172.68	2,001.3	-452.2	58.1	455.9	0.00	0.00	0.00
2,200.0	30.00	172.68	2,087.9	-501.7	64.5	505.9	0.00	0.00	0.00
2,300.0	30.00	172.68	2,174.5	-551.3	70.9	555.9	0.00	0.00	0.00
2,400.0	30.00	172.68	2,261.1	-600.9	77.2	605.9	0.00	0.00	0.00
2,500.0	30.00	172.68	2,347.7	-650.5	83.6	655.9	0.00	0.00	0.00
2,600.0	30.00	172.68	2,434.4	-700.1	90.0	705.9	0.00	0.00	0.00
2,700.0	30.00	172.68	2,521.0	-749.7	96.3	755.9	0.00	0.00	0.00
2,776.2	30.00	172.68	2,586.9	-787.5	101.2	794.0	0.00	0.00	0.00
Drop 3°/100' @ 2776'MD									
2,800.0	29.29	172.68	2,607.6	-799.2	102.7	805.7	3.00	-3.00	0.00
2,900.0	26.29	172.68	2,696.1	-845.4	108.6	852.4	3.00	-3.00	0.00
3,000.0	23.29	172.68	2,786.9	-887.0	114.0	894.3	3.00	-3.00	0.00
3,100.0	20.29	172.68	2,879.7	-923.8	118.7	931.4	3.00	-3.00	0.00
3,200.0	17.29	172.68	2,974.4	-955.7	122.8	963.6	3.00	-3.00	0.00
3,300.0	14.29	172.68	3,070.6	-982.7	126.3	990.8	3.00	-3.00	0.00
3,400.0	11.29	172.68	3,168.1	-1,004.6	129.1	1,012.9	3.00	-3.00	0.00
3,500.0	8.29	172.68	3,266.6	-1,021.5	131.3	1,029.9	3.00	-3.00	0.00
3,600.0	5.29	172.68	3,365.9	-1,033.2	132.8	1,041.7	3.00	-3.00	0.00
3,700.0	2.29	172.68	3,465.7	-1,039.8	133.6	1,048.3	3.00	-3.00	0.00
3,776.2	0.00	0.00	3,541.8	-1,041.3	133.8	1,049.8	3.00	-3.00	0.00
Hold Vertical									
3,800.0	0.00	0.00	3,565.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
3,900.0	0.00	0.00	3,665.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,000.0	0.00	0.00	3,765.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,100.0	0.00	0.00	3,865.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,200.0	0.00	0.00	3,965.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,300.0	0.00	0.00	4,065.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,400.0	0.00	0.00	4,165.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,500.0	0.00	0.00	4,265.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,600.0	0.00	0.00	4,365.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Foster State #1
Company:	Robert L. Bayless Producer LLC	TVD Reference:	RKB @ 6825.0usft
Project:	Moffat County, CO (NAD27)	MD Reference:	RKB @ 6825.0usft
Site:	Foster State #1	North Reference:	True
Well:	Foster State #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.0	0.00	0.00	4,465.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,800.0	0.00	0.00	4,565.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
4,900.0	0.00	0.00	4,665.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,000.0	0.00	0.00	4,765.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,100.0	0.00	0.00	4,865.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,200.0	0.00	0.00	4,965.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,065.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,165.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,265.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,365.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,465.7	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
5,723.3	0.00	0.00	5,489.0	-1,041.3	133.8	1,049.8	0.00	0.00	0.00
Well TD @ 5723'MD - BHL (Foster State #1)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL (Foster State #1)	0.00	358.63	-11.0	0.0	0.0	367,185.03	1,410,898.44	40° 19' 19.470 N	107° 36' 46.450 W
- plan misses target center by 11.0usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Point									
BHL (Foster State #1)	0.00	358.64	5,489.0	-1,041.3	133.8	366,140.87	1,411,007.41	40° 19' 9.180 N	107° 36' 44.722 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
600.0	600.0	9 5/8"	9-5/8	12-1/4	
3,934.3	3,700.0	7"	7	7-1/2	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
700.0	700.0	0.0	0.0	KOP 3°/100' @ 700'MD
1,700.0	1,654.9	-253.8	32.6	Hold 30° Inc 172.68° Azm
2,776.2	2,586.9	-787.5	101.2	Drop 3°/100' @ 2776'MD
3,776.2	3,541.8	-1,041.3	133.8	Hold Vertical
5,723.3	5,489.0	-1,041.3	133.8	Well TD @ 5723'MD