

PROJECT DETAILS: Garfield County, CO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

WELL DETAILS: CC Federal 0697-03-01W

+N/-S 0.0 +E/-W 0.0 Northing 1638481.03 Ground Level: 8609.0 Easting 2235624.19 Latitude 39.557675 Longitude -108.218750

Project: Garfield County, CO
Site: CC 604-41-32 Pad
Well: CC Federal 0697-03-01W
Wellbore: Wellbore #1
Design: Design #5
Latitude: 39.557675
Longitude: -108.218750
Ground Level: 8609.0
Well @ 8639.0usft (RKB 30')



DIRECTIONAL DRILLING



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC Federal 0697-03-01W, True North
Vertical (TVD) Reference: Well @ 8639.0usft (RKB 30')
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: Well @ 8639.0usft (RKB 30')
Calculation Method: Minimum Curvature



Azimuths to True North
Magnetic North: 9.77°
Magnetic Field
Strength: 61479.6nT
Dip Angle: 65.53°
Date: 10/4/2017
Model: IGRF2015

FORMATION TOP DETAILS

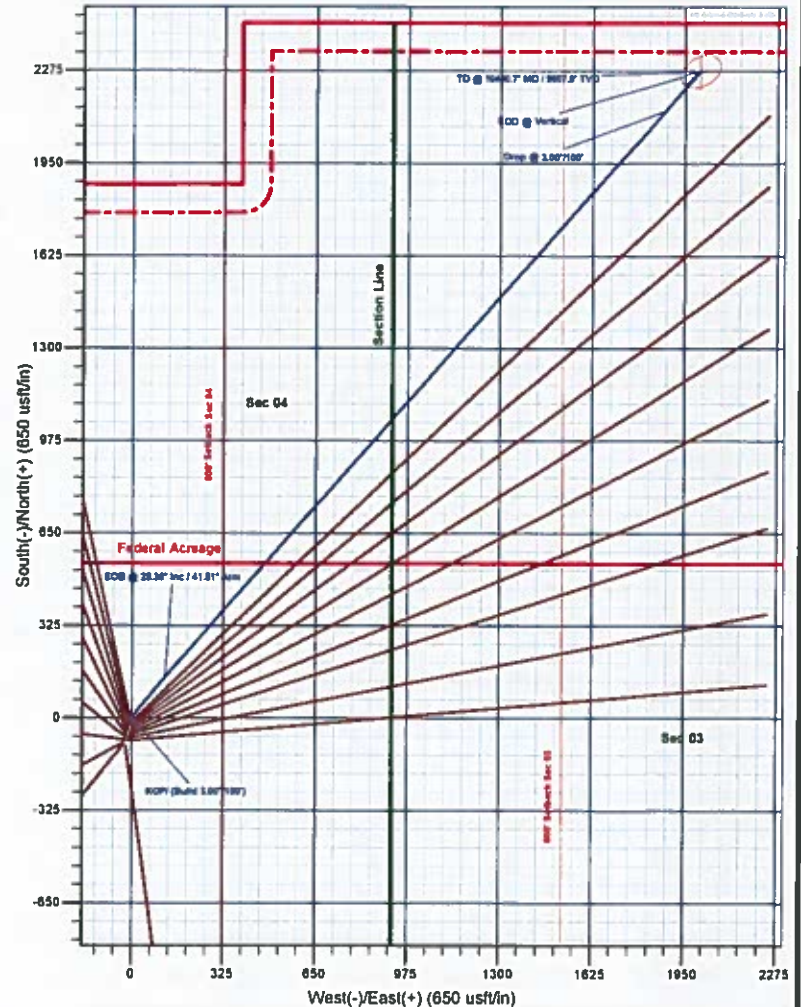
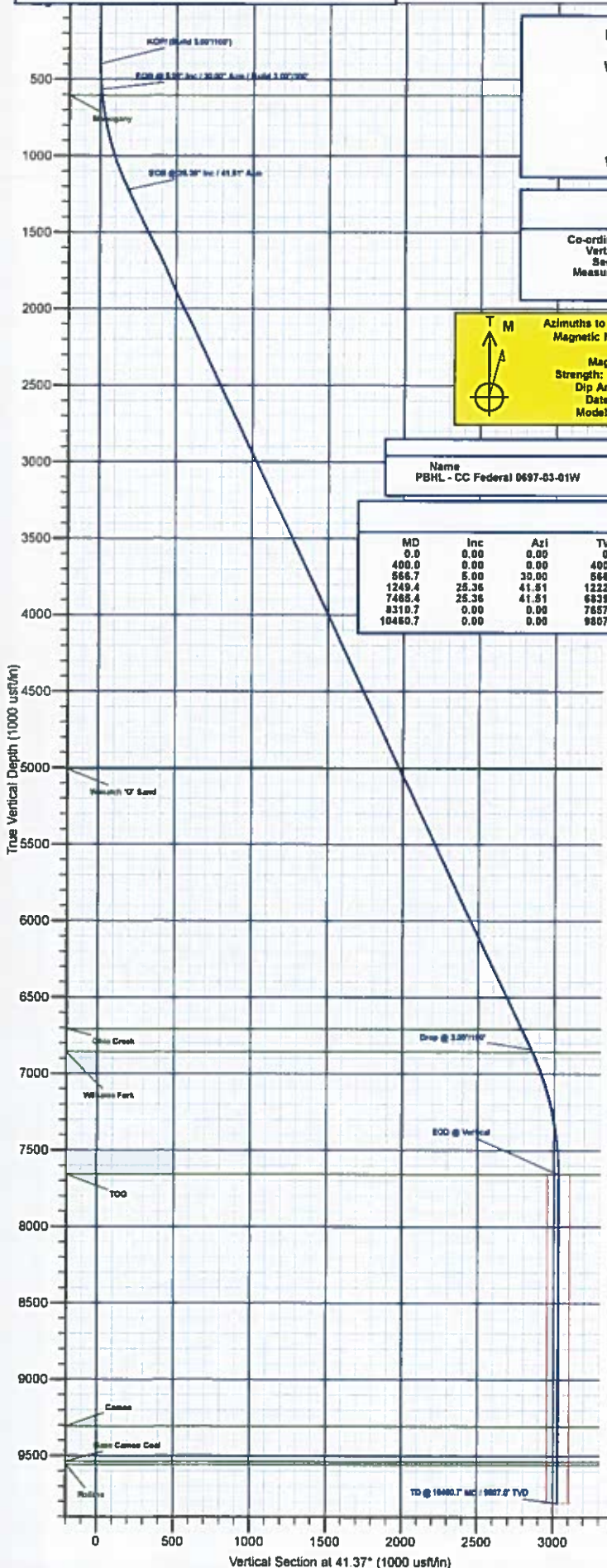
TVDPath	MDPath	Formation
606.0	606.0	Mahogany
5007.0	5438.0	Wasatch 'O' Sand
6707.0	7319.3	Ohio Creek
6857.0	7485.2	Williams Fork
7657.0	8310.7	TOO
9307.0	9980.7	Cameo
9537.0	10190.7	Base Cameo Coal
9587.0	10210.7	Rollins

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC Federal 0697-03-01W	9807.0	2274.5	2002.8	1641694.56	2235624.17	39.563919	-108.211646

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	KOP/ (Build 3.00"/100')
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	EOB @ 5.00" Inc / 30.00' Azm / Build 3.00"/100'
566.7	5.00	30.00	566.5	5.3	3.8	3.08	30.00	7.1	EOB @ 25.38" Inc / 41.51' Azm
1249.4	25.38	41.51	1222.0	143.0	116.5	3.00	14.13	184.4	Drop @ 3.00"/100'
7485.4	25.38	41.51	6839.0	2138.8	1880.9	0.00	0.00	284.6	EOB @ Vertical
8310.7	0.00	0.00	7657.0	2274.5	2002.8	3.00	180.00	3038.8	TD @ Vertical
10460.7	0.00	0.00	9807.0	2274.5	2002.8	0.00	0.00	3038.8	TD @ 10460.7 MD / 9807.0' TVD



Plan: Design #5 (CC Federal 0697-03-01W/Wellbore #1)

Created By: Will Jircik Date: 10:00, February 07 2019



Laramie Energy, LLC

Garfield County, CO

CC 604-41-32 Pad

CC Federal 0697-03-01W

Wellbore #1

Plan: Design #5

QES Well Planning Report

07 February, 2019





Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CC Federal 0697-03-01W
Company:	Laramie Energy, LLC	TVD Reference:	Well @ 8639.0usft (RKB 30')
Project:	Garfield County, CO	MD Reference:	Well @ 8639.0usft (RKB 30')
Site:	CC 604-41-32 Pad	North Reference:	True
Well:	CC Federal 0697-03-01W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

Project	Garfield County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	CC 604-41-32 Pad			
Site Position:		Northing:	1,639,464.67 usft	Latitude: 39.557630
From:	Lat/Long	Easting:	2,233,548.14 usft	Longitude: -108.218770
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence: -1.71°

Well	CC Federal 0697-03-01W			
Well Position	+N/-S	16.6 usft	Northing:	1,639,481.05 usft
	+E/-W	5.6 usft	Easting:	2,233,554.19 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level: 8,609.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/4/2017	9.77	65.59	51,479.58878755

Design	Design #5			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	41.37

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
566.7	5.00	30.00	566.5	6.3	3.6	3.00	3.00	0.00	30.00	
1,249.4	25.36	41.51	1,222.0	143.0	116.6	3.00	2.98	1.69	14.13	
7,465.4	25.36	41.51	6,839.0	2,136.6	1,880.9	0.00	0.00	0.00	0.00	
8,310.7	0.00	0.00	7,657.0	2,274.5	2,002.8	3.00	-3.00	0.00	180.00	
10,460.7	0.00	0.00	9,807.0	2,274.5	2,002.8	0.00	0.00	0.00	0.00	PBHL - CC Federal 01



Well Planning Report



Database: EDM 5000.1 Single User Db
 Company: Laramie Energy, LLC
 Project: Garfield County, CO
 Site: CC 604-41-32 Pad
 Well: CC Federal 0697-03-01W
 Wellbore: Wellbore #1
 Design: Design #5

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well CC Federal 0697-03-01W
 Well @ 8639.0usft (RKB 30')
 Well @ 8639.0usft (RKB 30')
 True
 Minimum Curvature

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
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
KOP/ (Build 3.00°/100')									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	3.00	30.00	500.0	2.3	1.3	2.6	3.00	3.00	0.00
EOB @ 5.00° Inc / 30.00° Azm / Build 3.00°/100'									
566.7	5.00	30.00	566.5	6.3	3.6	7.1	3.00	3.00	0.00
600.0	5.97	32.35	599.6	9.0	5.3	10.3	3.00	2.92	7.04
Mahogany									
606.4	6.16	32.71	606.0	9.6	5.7	10.9	3.00	2.94	5.71
700.0	8.93	36.30	698.8	19.7	12.7	23.1	3.00	2.96	3.83
800.0	11.91	38.29	797.1	34.0	23.7	41.2	3.00	2.98	1.99
900.0	14.90	39.49	894.4	52.1	38.2	64.3	3.00	2.99	1.20
1,000.0	17.89	40.30	990.3	73.7	56.4	92.6	3.00	2.99	0.81
1,100.0	20.88	40.88	1,084.6	98.9	78.0	125.7	3.00	2.99	0.58
1,200.0	23.88	41.33	1,177.1	127.6	103.0	163.8	3.00	3.00	0.44
EOB @ 25.36° Inc / 41.51° Azm									
1,249.4	25.36	41.51	1,222.0	143.0	116.6	184.4	3.00	3.00	0.37
1,300.0	25.36	41.51	1,267.7	159.2	131.0	206.1	0.00	0.00	0.00
1,400.0	25.36	41.51	1,358.1	191.3	159.3	248.9	0.00	0.00	0.00
1,500.0	25.36	41.51	1,448.4	223.4	187.7	291.7	0.00	0.00	0.00
1,600.0	25.36	41.51	1,538.8	255.5	218.1	334.5	0.00	0.00	0.00
1,700.0	25.36	41.51	1,629.2	287.5	244.5	377.4	0.00	0.00	0.00
1,800.0	25.36	41.51	1,719.5	319.6	272.9	420.2	0.00	0.00	0.00
1,900.0	25.36	41.51	1,809.9	351.7	301.3	463.0	0.00	0.00	0.00
2,000.0	25.36	41.51	1,900.3	383.7	329.6	505.9	0.00	0.00	0.00
2,100.0	25.36	41.51	1,990.6	415.8	358.0	548.7	0.00	0.00	0.00
2,200.0	25.36	41.51	2,081.0	447.9	386.4	591.5	0.00	0.00	0.00
2,300.0	25.36	41.51	2,171.4	480.0	414.8	634.3	0.00	0.00	0.00
2,400.0	25.36	41.51	2,261.7	512.0	443.2	677.2	0.00	0.00	0.00
2,500.0	25.36	41.51	2,352.1	544.1	471.6	720.0	0.00	0.00	0.00
9 5/8"									
2,530.0	25.36	41.51	2,379.2	553.7	480.1	732.8	0.00	0.00	0.00
2,600.0	25.36	41.51	2,442.5	576.2	499.9	762.8	0.00	0.00	0.00
2,700.0	25.36	41.51	2,532.8	608.3	528.3	805.6	0.00	0.00	0.00
2,800.0	25.36	41.51	2,623.2	640.3	556.7	848.5	0.00	0.00	0.00
2,900.0	25.36	41.51	2,713.6	672.4	585.1	891.3	0.00	0.00	0.00
3,000.0	25.36	41.51	2,803.9	704.5	613.5	934.1	0.00	0.00	0.00
3,100.0	25.36	41.51	2,894.3	736.5	641.9	977.0	0.00	0.00	0.00
3,200.0	25.36	41.51	2,984.6	768.6	670.2	1,019.8	0.00	0.00	0.00
3,300.0	25.36	41.51	3,075.0	800.7	698.6	1,062.6	0.00	0.00	0.00
3,400.0	25.36	41.51	3,165.4	832.8	727.0	1,105.4	0.00	0.00	0.00
3,500.0	25.36	41.51	3,255.7	864.8	755.4	1,148.3	0.00	0.00	0.00
3,600.0	25.36	41.51	3,346.1	896.9	783.8	1,191.1	0.00	0.00	0.00
3,700.0	25.36	41.51	3,436.5	929.0	812.1	1,233.9	0.00	0.00	0.00
3,800.0	25.36	41.51	3,526.8	961.1	840.5	1,276.8	0.00	0.00	0.00
3,900.0	25.36	41.51	3,617.2	993.1	868.9	1,319.6	0.00	0.00	0.00
4,000.0	25.36	41.51	3,707.6	1,025.2	897.3	1,362.4	0.00	0.00	0.00
4,100.0	25.36	41.51	3,797.9	1,057.3	925.7	1,405.2	0.00	0.00	0.00
4,200.0	25.36	41.51	3,888.3	1,089.3	954.1	1,448.1	0.00	0.00	0.00
4,300.0	25.36	41.51	3,978.7	1,121.4	982.4	1,490.9	0.00	0.00	0.00
4,400.0	25.36	41.51	4,069.0	1,153.5	1,010.6	1,533.7	0.00	0.00	0.00



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CC Federal 0697-03-01W
Company:	Laramie Energy, LLC	TVD Reference:	Well @ 8839.0usft (RKB 30')
Project:	Garfield County, CO	MD Reference:	Well @ 8839.0usft (RKB 30')
Site:	CC 604-41-32 Pad	North Reference:	True
Well:	CC Federal 0697-03-01W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

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)
4,500.0	25.36	41.51	4,159.4	1,185.6	1,039.2	1,576.5	0.00	0.00	0.00
4,600.0	25.36	41.51	4,249.7	1,217.6	1,067.6	1,619.4	0.00	0.00	0.00
4,700.0	25.36	41.51	4,340.1	1,249.7	1,096.0	1,662.2	0.00	0.00	0.00
4,800.0	25.36	41.51	4,430.5	1,281.8	1,124.4	1,705.0	0.00	0.00	0.00
4,900.0	25.36	41.51	4,520.8	1,313.9	1,152.7	1,747.9	0.00	0.00	0.00
5,000.0	25.36	41.51	4,611.2	1,345.9	1,181.1	1,790.7	0.00	0.00	0.00
5,100.0	25.36	41.51	4,701.6	1,378.0	1,209.5	1,833.5	0.00	0.00	0.00
5,200.0	25.36	41.51	4,791.9	1,410.1	1,237.9	1,876.3	0.00	0.00	0.00
5,300.0	25.36	41.51	4,882.3	1,442.1	1,266.3	1,919.2	0.00	0.00	0.00
5,400.0	25.36	41.51	4,972.7	1,474.2	1,294.7	1,962.0	0.00	0.00	0.00
Wasatch 'G' Sand									
5,438.0	25.36	41.51	5,007.0	1,486.4	1,305.4	1,978.3	0.00	0.00	0.00
5,500.0	25.36	41.51	5,063.0	1,506.3	1,323.0	2,004.8	0.00	0.00	0.00
5,600.0	25.36	41.51	5,153.4	1,538.4	1,351.4	2,047.7	0.00	0.00	0.00
5,700.0	25.36	41.51	5,243.8	1,570.4	1,379.8	2,090.5	0.00	0.00	0.00
5,800.0	25.36	41.51	5,334.1	1,602.5	1,408.2	2,133.3	0.00	0.00	0.00
5,900.0	25.36	41.51	5,424.5	1,634.6	1,436.6	2,176.1	0.00	0.00	0.00
6,000.0	25.36	41.51	5,514.9	1,666.7	1,464.9	2,219.0	0.00	0.00	0.00
6,100.0	25.36	41.51	5,605.2	1,698.7	1,493.3	2,261.8	0.00	0.00	0.00
6,200.0	25.36	41.51	5,695.6	1,730.8	1,521.7	2,304.6	0.00	0.00	0.00
6,300.0	25.36	41.51	5,785.9	1,762.9	1,550.1	2,347.4	0.00	0.00	0.00
6,400.0	25.36	41.51	5,876.3	1,794.9	1,578.5	2,390.3	0.00	0.00	0.00
6,500.0	25.36	41.51	5,966.7	1,827.0	1,606.9	2,433.1	0.00	0.00	0.00
6,600.0	25.36	41.51	6,057.0	1,859.1	1,635.2	2,475.9	0.00	0.00	0.00
6,700.0	25.36	41.51	6,147.4	1,891.2	1,663.6	2,518.8	0.00	0.00	0.00
6,800.0	25.36	41.51	6,237.8	1,923.2	1,692.0	2,561.6	0.00	0.00	0.00
6,900.0	25.36	41.51	6,328.1	1,955.3	1,720.4	2,604.4	0.00	0.00	0.00
7,000.0	25.36	41.51	6,418.5	1,987.4	1,748.8	2,647.2	0.00	0.00	0.00
7,100.0	25.36	41.51	6,508.9	2,019.5	1,777.2	2,690.1	0.00	0.00	0.00
7,200.0	25.36	41.51	6,599.2	2,051.5	1,805.5	2,732.9	0.00	0.00	0.00
7,300.0	25.36	41.51	6,689.6	2,083.6	1,833.9	2,775.7	0.00	0.00	0.00
Ohio Creek									
7,319.3	25.36	41.51	6,707.0	2,089.8	1,839.4	2,784.0	0.00	0.00	0.00
7,400.0	25.36	41.51	6,780.0	2,115.7	1,862.3	2,818.6	0.00	0.00	0.00
Drop @ 3.00°/100'									
7,465.4	25.36	41.51	6,839.0	2,136.6	1,880.9	2,846.6	0.00	0.00	0.00
Williams Fork									
7,485.2	24.76	41.51	6,857.0	2,142.9	1,886.4	2,855.0	3.00	-3.00	0.00
7,500.0	24.32	41.51	6,870.5	2,147.5	1,890.5	2,861.1	3.00	-3.00	0.00
7,600.0	21.32	41.51	6,962.6	2,176.6	1,916.2	2,899.9	3.00	-3.00	0.00
7,700.0	18.32	41.51	7,056.7	2,202.0	1,938.7	2,933.8	3.00	-3.00	0.00
7,800.0	15.32	41.51	7,152.4	2,223.6	1,957.8	2,962.7	3.00	-3.00	0.00
7,900.0	12.32	41.51	7,249.5	2,241.5	1,973.7	2,986.6	3.00	-3.00	0.00
8,000.0	9.32	41.51	7,347.7	2,255.6	1,986.1	3,005.4	3.00	-3.00	0.00
8,100.0	6.32	41.51	7,446.8	2,265.8	1,995.1	3,019.0	3.00	-3.00	0.00
8,200.0	3.32	41.51	7,546.4	2,272.1	2,000.7	3,027.4	3.00	-3.00	0.00
8,300.0	0.32	41.51	7,646.3	2,274.4	2,002.8	3,030.6	3.00	-3.00	0.00
EOD @ Vertical - TOG									
8,310.7	0.00	0.00	7,657.0	2,274.5	2,002.8	3,030.6	3.00	-3.00	0.00
8,400.0	0.00	0.00	7,746.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00
8,500.0	0.00	0.00	7,846.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00
8,600.0	0.00	0.00	7,946.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,046.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00



Well Planning Report



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Project:	Garfield County, CO	MD Reference:	Well @ 8639.0usft (RKB 30')
Site:	CC 604-41-32 Pad	North Reference:	True
Well:	CC Federal 0697-03-01W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

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)	
8,800.0	0.00	0.00	8,146.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,246.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,346.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,446.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,200.0	0.00	0.00	8,546.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,300.0	0.00	0.00	8,646.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,400.0	0.00	0.00	8,746.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,500.0	0.00	0.00	8,846.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,600.0	0.00	0.00	8,946.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,046.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,146.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,246.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
Cameo										
9,960.7	0.00	0.00	9,307.0	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,346.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,446.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
Base Cameo Coal										
10,190.7	0.00	0.00	9,537.0	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
10,200.0	0.00	0.00	9,546.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
Rollins										
10,210.7	0.00	0.00	9,557.0	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
10,300.0	0.00	0.00	9,646.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
10,400.0	0.00	0.00	9,746.3	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	
TD @ 10460.7' MD / 9807.0' TVD										
10,460.7	0.00	0.00	9,807.0	2,274.5	2,002.8	3,030.6	0.00	0.00	0.00	

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										
PBHL - CC Federal 0697	0.00	0.00	9,807.0	2,274.5	2,002.8	1,641,694.56	2,235,624.17	39.563919	-108.211646	
- plan hits target center										
- Ellipse (radii L50.0 W75.0 on 150.00 azi)										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
2,530.0	2,379.2	9 5/8"	9-5/8	14-3/4		



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CC Federal 0697-03-01W
Company:	Laramie Energy, LLC	TVD Reference:	Well @ 8639.0usft (RKB 30')
Project:	Garfield County, CO	MD Reference:	Well @ 8639.0usft (RKB 30')
Site:	CC 604-41-32 Pad	North Reference:	True
Well:	CC Federal 0697-03-01W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
606.4	606.0	Mahogany		0.00	
5,438.0	5,007.0	Wasatch 'G' Sand			
7,319.3	6,707.0	Ohio Creek			
7,485.2	6,857.0	Williams Fork			
8,310.7	7,657.0	TOG			
9,960.7	9,307.0	Cameo			
10,190.7	9,537.0	Base Cameo Coal			
10,210.7	9,557.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
400.0	400.0	0.0	0.0	KOP/ (Build 3.00"/100')
566.7	566.5	6.3	3.6	EOB @ 5.00" Inc / 30.00° Azm / Build 3.00"/100'
1,249.4	1,222.0	143.0	116.6	EOB @ 25.36" Inc / 41.51° Azm
7,485.4	6,839.0	2,136.6	1,880.9	Drop @ 3.00"/100'
8,310.7	7,657.0	2,274.5	2,002.8	EOD @ Vertical
10,460.7	9,807.0	2,274.5	2,002.8	TD @ 10460.7' MD / 9807.0' TVD