

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
 8609.0
 +N/-S 0.0 +E/-W 0.0 Northing 1639461.28 Easting 2233557.55 Latitude 39.557621 Longitude -108.218736

Project: Garfield County, CO
 Site: CC 604-41-32 Pad
 Well: CC Federal 0697-03-01W
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.557621
 Longitude: -108.218736
 Ground Level: 8609.0
 well @ 8633.0usft (24'RKB)



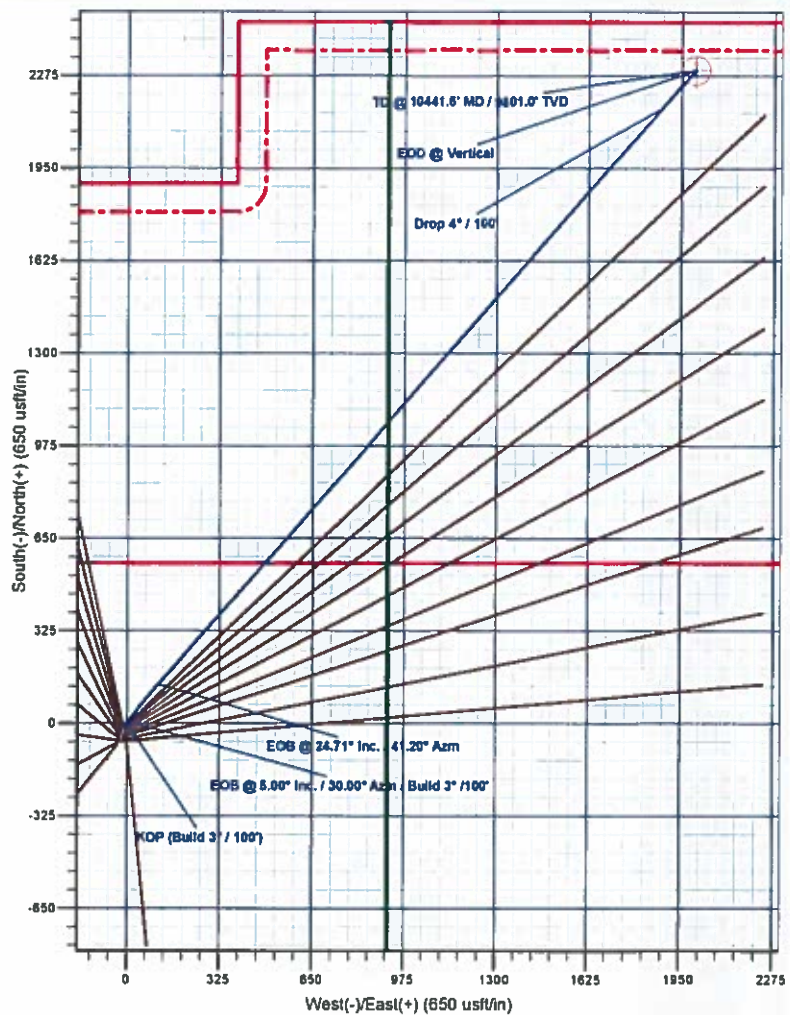
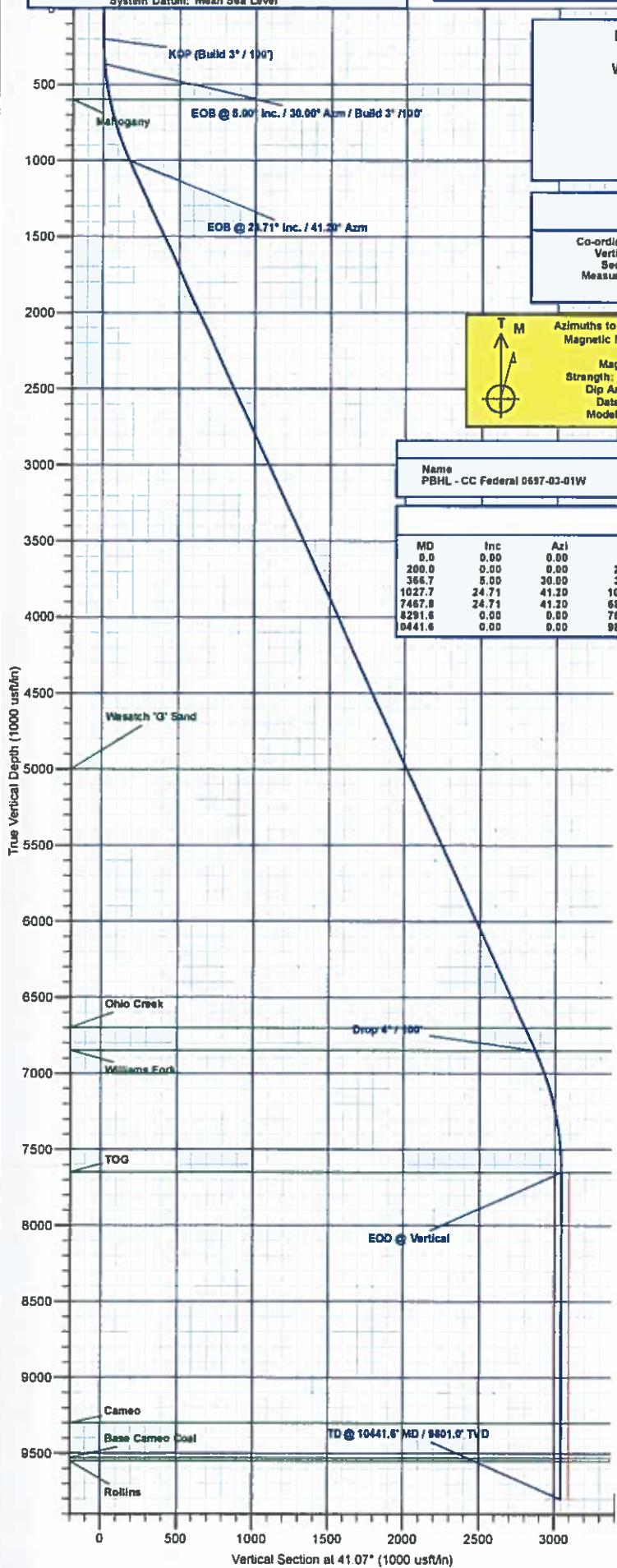
REFERENCE INFORMATION
 Co-ordinate (N/E) Reference: Well CC Federal 0697-03-01W, True North
 Vertical (TVD) Reference: well @ 8633.0usft (24'RKB)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: well @ 8633.0usft (24'RKB)
 Calculation Method: Minimum Curvature

Azimuths to True North
 Magnetic North: 9.77°
 Magnetic Field
 Strength: 51478.6nT
 Dip Angle: 65.59°
 Date: 10/4/2017
 Model: IGRF2015

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
600.0	602.9	Mahogany
5001.0	5429.6	Wasatch 'G' Sand
6701.0	7301.0	Ohio Creek
6851.0	7466.1	Williams Fork
7451.0	8291.6	TOG
8301.0	8941.6	Cameo
9531.0	10171.6	Base Cameo Coal
10271.0	11121.6	Rollins

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC Federal 0697-03-01W	9801.0	2294.1	1998.9	1641694.56	2235624.17	39.563919	-108.211646

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Deg	TFace	VSecl	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	KOP (Build 3° / 100°)
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	EOB @ 5.00° Inc. / 30.00° Azm / Build 3° / 100°
366.7	5.00	30.00	366.5	6.3	1.6	3.00	30.00	7.1	EOB @ 24.71° Inc. / 41.20° Azm
1027.7	24.71	41.20	1002.3	136.5	110.1	3.00	12.85	175.3	Drop 4° / 100°
7467.8	24.71	41.20	6952.5	2162.5	1883.6	0.00	0.00	2867.8	EOB @ Vertical
8291.6	0.00	0.00	7651.0	2294.1	1998.9	3.00	168.00	3042.8	TD @ 10441.5° MD / 9801.0° TVD
10441.6	0.00	0.00	9801.0	2294.1	1998.9	0.00	0.00	3042.8	



Plan: Design #2 (CC Federal 0697-03-01W/Wellbore #1)
 Created By: Will Jircik Date: 11:38, April 19 2018



Laramie Energy, LLC

Garfield County, CO

CC 604-41-32 Pad

CC Federal 0697-03-01W

Wellbore #1

Plan: Design #2

QES Well Planning Report

12 April, 2018





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 @ 8633.0usft (24'RKB)
Project:	Garfield County, CO	MD Reference:	well @ 8633.0usft (24'RKB)
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 #2		

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	-3.1 usft	Northing:	1,639,461.28 usft
	+E/-W	9.5 usft	Easting:	2,233,557.55 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	51,479.56156485

Design	Design #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	41.07

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
366.7	5.00	30.00	366.5	6.3	3.6	3.00	3.00	0.00	30.00	
1,027.7	24.71	41.20	1,002.3	136.5	110.1	3.00	2.98	1.69	13.85	
7,467.8	24.71	41.20	6,852.5	2,162.5	1,883.6	0.00	0.00	0.00	0.00	
8,291.6	0.00	0.00	7,651.0	2,294.1	1,998.9	3.00	-3.00	0.00	180.00	
10,441.6	0.00	0.00	9,801.0	2,294.1	1,998.9	0.00	0.00	0.00	0.00	PBHL - CC Federal 01



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 @ 8633.0usft (24'RKB)
Project:	Garfield County, CO	MD Reference:	well @ 8633.0usft (24'RKB)
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 #2		

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
KOP (Build 3° / 100')									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	3.00	30.00	300.0	2.3	1.3	2.6	3.00	3.00	0.00
EOB @ 5.00° Inc. / 30.00° Azm / Build 3° / 100'									
366.7	5.00	30.00	366.5	6.3	3.6	7.1	3.00	3.00	0.00
400.0	5.98	32.30	399.6	9.0	5.3	10.3	3.00	2.93	6.90
500.0	6.94	36.17	498.6	19.7	12.7	23.2	3.00	2.96	3.87
600.0	11.91	38.12	597.1	34.1	23.6	41.2	3.00	2.98	1.95
Mahogany									
602.9	12.00	38.17	600.0	34.6	24.0	41.8	3.00	2.98	1.46
700.0	14.90	39.30	694.4	52.2	38.1	64.4	3.00	2.99	1.17
800.0	17.89	40.09	790.3	73.9	56.2	92.6	3.00	2.99	0.79
900.0	20.89	40.66	884.6	99.1	77.7	125.8	3.00	2.99	0.57
1,000.0	23.88	41.10	977.1	127.9	102.6	163.9	3.00	3.00	0.43
EOB @ 24.71° Inc. / 41.20° Azm									
1,027.7	24.71	41.20	1,002.3	136.5	110.1	175.3	3.00	3.00	0.37
1,100.0	24.71	41.20	1,068.0	159.3	130.0	205.5	0.00	0.00	0.00
1,200.0	24.71	41.20	1,158.8	190.7	157.6	247.3	0.00	0.00	0.00
1,300.0	24.71	41.20	1,249.7	222.2	185.1	289.1	0.00	0.00	0.00
1,400.0	24.71	41.20	1,340.5	253.6	212.6	330.9	0.00	0.00	0.00
1,500.0	24.71	41.20	1,431.4	285.1	240.2	372.7	0.00	0.00	0.00
1,600.0	24.71	41.20	1,522.2	316.6	267.7	414.5	0.00	0.00	0.00
1,700.0	24.71	41.20	1,613.0	348.0	295.3	456.4	0.00	0.00	0.00
1,800.0	24.71	41.20	1,703.9	379.5	322.8	498.2	0.00	0.00	0.00
1,900.0	24.71	41.20	1,794.7	410.9	350.3	540.0	0.00	0.00	0.00
2,000.0	24.71	41.20	1,885.6	442.4	377.9	581.8	0.00	0.00	0.00
2,100.0	24.71	41.20	1,976.4	473.8	405.4	623.6	0.00	0.00	0.00
2,200.0	24.71	41.20	2,067.2	505.3	433.0	665.4	0.00	0.00	0.00
2,300.0	24.71	41.20	2,158.1	536.8	460.5	707.2	0.00	0.00	0.00
2,400.0	24.71	41.20	2,248.9	568.2	488.0	749.0	0.00	0.00	0.00
2,500.0	24.71	41.20	2,339.8	599.7	515.6	790.8	0.00	0.00	0.00
9 5/8"									
2,524.0	24.71	41.20	2,361.6	607.2	522.2	800.9	0.00	0.00	0.00
2,600.0	24.71	41.20	2,430.6	631.1	543.1	832.6	0.00	0.00	0.00
2,700.0	24.71	41.20	2,521.4	662.6	570.7	874.4	0.00	0.00	0.00
2,800.0	24.71	41.20	2,612.3	694.1	598.2	916.3	0.00	0.00	0.00
2,900.0	24.71	41.20	2,703.1	725.5	625.7	958.1	0.00	0.00	0.00
3,000.0	24.71	41.20	2,794.0	757.0	653.3	999.9	0.00	0.00	0.00
3,100.0	24.71	41.20	2,884.8	788.4	680.8	1,041.7	0.00	0.00	0.00
3,200.0	24.71	41.20	2,975.6	819.9	708.3	1,083.5	0.00	0.00	0.00
3,300.0	24.71	41.20	3,066.5	851.4	735.9	1,125.3	0.00	0.00	0.00
3,400.0	24.71	41.20	3,157.3	882.8	763.4	1,167.1	0.00	0.00	0.00
3,500.0	24.71	41.20	3,248.2	914.3	791.0	1,208.9	0.00	0.00	0.00
3,600.0	24.71	41.20	3,339.0	945.7	818.5	1,250.7	0.00	0.00	0.00
3,700.0	24.71	41.20	3,429.8	977.2	846.0	1,292.5	0.00	0.00	0.00
3,800.0	24.71	41.20	3,520.7	1,008.6	873.6	1,334.4	0.00	0.00	0.00
3,900.0	24.71	41.20	3,611.5	1,040.1	901.1	1,376.2	0.00	0.00	0.00
4,000.0	24.71	41.20	3,702.4	1,071.6	928.7	1,418.0	0.00	0.00	0.00
4,100.0	24.71	41.20	3,793.2	1,103.0	956.2	1,459.8	0.00	0.00	0.00
4,200.0	24.71	41.20	3,884.0	1,134.5	983.7	1,501.6	0.00	0.00	0.00
4,300.0	24.71	41.20	3,974.9	1,165.9	1,011.3	1,543.4	0.00	0.00	0.00
4,400.0	24.71	41.20	4,065.7	1,197.4	1,038.8	1,585.2	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 @ 8633.0usft (24'RKB)
Project:	Garfield County, CO	MD Reference:	well @ 8633.0usft (24'RKB)
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 #2		

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	24.71	41.20	4,156.6	1,228.9	1,066.4	1,627.0	0.00	0.00	0.00
4,600.0	24.71	41.20	4,247.4	1,260.3	1,093.9	1,668.8	0.00	0.00	0.00
4,700.0	24.71	41.20	4,338.2	1,291.8	1,121.4	1,710.6	0.00	0.00	0.00
4,800.0	24.71	41.20	4,429.1	1,323.2	1,149.0	1,752.4	0.00	0.00	0.00
4,900.0	24.71	41.20	4,519.9	1,354.7	1,176.5	1,794.3	0.00	0.00	0.00
5,000.0	24.71	41.20	4,610.8	1,386.2	1,204.0	1,836.1	0.00	0.00	0.00
5,100.0	24.71	41.20	4,701.6	1,417.6	1,231.6	1,877.9	0.00	0.00	0.00
5,200.0	24.71	41.20	4,792.4	1,449.1	1,259.1	1,919.7	0.00	0.00	0.00
5,300.0	24.71	41.20	4,883.3	1,480.5	1,286.7	1,961.5	0.00	0.00	0.00
5,400.0	24.71	41.20	4,974.1	1,512.0	1,314.2	2,003.3	0.00	0.00	0.00
Wasatch 'G' Sand									
5,429.6	24.71	41.20	5,001.0	1,521.3	1,322.3	2,015.7	0.00	0.00	0.00
5,500.0	24.71	41.20	5,065.0	1,543.4	1,341.7	2,045.1	0.00	0.00	0.00
5,600.0	24.71	41.20	5,155.8	1,574.9	1,369.3	2,086.9	0.00	0.00	0.00
5,700.0	24.71	41.20	5,246.6	1,606.4	1,396.8	2,128.7	0.00	0.00	0.00
5,800.0	24.71	41.20	5,337.5	1,637.8	1,424.4	2,170.5	0.00	0.00	0.00
5,900.0	24.71	41.20	5,428.3	1,669.3	1,451.9	2,212.4	0.00	0.00	0.00
6,000.0	24.71	41.20	5,519.2	1,700.7	1,479.4	2,254.2	0.00	0.00	0.00
6,100.0	24.71	41.20	5,610.0	1,732.2	1,507.0	2,296.0	0.00	0.00	0.00
6,200.0	24.71	41.20	5,700.8	1,763.7	1,534.5	2,337.8	0.00	0.00	0.00
6,300.0	24.71	41.20	5,791.7	1,795.1	1,562.1	2,379.6	0.00	0.00	0.00
6,400.0	24.71	41.20	5,882.5	1,826.6	1,589.6	2,421.4	0.00	0.00	0.00
6,500.0	24.71	41.20	5,973.4	1,858.0	1,617.1	2,463.2	0.00	0.00	0.00
6,600.0	24.71	41.20	6,064.2	1,889.5	1,644.7	2,505.0	0.00	0.00	0.00
6,700.0	24.71	41.20	6,155.1	1,921.0	1,672.2	2,546.8	0.00	0.00	0.00
6,800.0	24.71	41.20	6,245.9	1,952.4	1,699.7	2,588.6	0.00	0.00	0.00
6,900.0	24.71	41.20	6,336.7	1,983.9	1,727.3	2,630.4	0.00	0.00	0.00
7,000.0	24.71	41.20	6,427.6	2,015.3	1,754.8	2,672.3	0.00	0.00	0.00
7,100.0	24.71	41.20	6,518.4	2,046.8	1,782.4	2,714.1	0.00	0.00	0.00
7,200.0	24.71	41.20	6,609.3	2,078.2	1,809.9	2,755.9	0.00	0.00	0.00
7,300.0	24.71	41.20	6,700.1	2,109.7	1,837.4	2,797.7	0.00	0.00	0.00
Ohio Creek									
7,301.0	24.71	41.20	6,701.0	2,110.0	1,837.7	2,798.1	0.00	0.00	0.00
7,400.0	24.71	41.20	6,790.9	2,141.2	1,865.0	2,839.5	0.00	0.00	0.00
Williams Fork									
7,466.1	24.71	41.20	6,851.0	2,162.0	1,883.2	2,867.1	0.00	0.00	0.00
Drop 4° / 100'									
7,467.8	24.71	41.20	6,852.5	2,162.5	1,883.6	2,867.8	0.00	0.00	0.00
7,500.0	23.75	41.20	6,881.9	2,172.4	1,892.4	2,881.1	3.00	-3.00	0.00
7,600.0	20.75	41.20	6,974.4	2,200.9	1,917.3	2,918.9	3.00	-3.00	0.00
7,700.0	17.75	41.20	7,068.8	2,225.7	1,939.0	2,951.9	3.00	-3.00	0.00
7,800.0	14.75	41.20	7,164.8	2,246.8	1,957.4	2,979.8	3.00	-3.00	0.00
7,900.0	11.75	41.20	7,262.2	2,264.0	1,972.5	3,002.8	3.00	-3.00	0.00
8,000.0	8.75	41.20	7,360.5	2,277.4	1,984.2	3,020.6	3.00	-3.00	0.00
8,100.0	5.75	41.20	7,459.7	2,286.9	1,992.5	3,033.2	3.00	-3.00	0.00
8,200.0	2.75	41.20	7,559.5	2,292.5	1,997.4	3,040.6	3.00	-3.00	0.00
EOD @ Vertical - TOG									
8,291.6	0.00	0.00	7,651.0	2,294.1	1,998.9	3,042.8	3.00	-3.00	0.00
8,300.0	0.00	0.00	7,659.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
8,400.0	0.00	0.00	7,759.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
8,500.0	0.00	0.00	7,859.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
8,600.0	0.00	0.00	7,959.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,059.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00



Well Planning Report



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Company:	Laramie Energy, LLC	TVD Reference:	well @ 8633 0usft (24'RKB)
Project:	Garfield County, CO	MD Reference:	well @ 8633 0usft (24'RKB)
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 #2		

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	8,159.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,259.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,359.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,100.0	0.00	0.00	8,459.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,200.0	0.00	0.00	8,559.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,300.0	0.00	0.00	8,659.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,400.0	0.00	0.00	8,759.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,500.0	0.00	0.00	8,859.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,600.0	0.00	0.00	8,959.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,059.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,159.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,259.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
Cameo									
9,941.6	0.00	0.00	9,301.0	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,359.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
10,100.0	0.00	0.00	9,459.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
Base Cameo Coal									
10,171.6	0.00	0.00	9,531.0	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
Rollins									
10,191.6	0.00	0.00	9,551.0	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
10,200.0	0.00	0.00	9,559.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
10,300.0	0.00	0.00	9,659.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
10,400.0	0.00	0.00	9,759.4	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00
TD @ 10441.6' MD / 9801.0' TVD									
10,441.6	0.00	0.00	9,801.0	2,294.1	1,998.9	3,042.8	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - CC Federal 0697 - plan hits target center - Circle (radius 50.0)	0.00	0.00	9,801.0	2,294.1	1,998.9	1,641,694.56	2,235,624.17	39.563919	-108.211646

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,524.0	2,361.6	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 @ 8633.0usft (24'RKB)
Project:	Garfield County, CO	MD Reference:	well @ 8633.0usft (24'RKB)
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 #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
602.9	600.0	Mahogany		0.00	
5,429.6	5,001.0	Wasatch 'G' Sand			
7,301.0	6,701.0	Ohio Creek			
7,466.1	6,851.0	Williams Fork			
8,291.6	7,651.0	TOG			
9,941.6	9,301.0	Cameo			
10,171.6	9,531.0	Base Cameo Coal			
10,191.6	9,551.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.0	200.0	0.0	0.0	KOP (Build 3" / 100')
366.7	366.5	6.3	3.6	EOB @ 5.00° Inc. / 30.00° Azm / Build 3" / 100'
1,027.7	1,002.3	136.5	110.1	EOB @ 24.71° Inc. / 41.20° Azm
7,467.8	6,852.5	2,162.5	1,883.6	Drop 4" / 100'
8,291.6	7,651.0	2,294.1	1,998.9	EOD @ Vertical
10,441.6	9,801.0	2,294.1	1,998.9	TD @ 10441.6' MD / 9801.0' TVD