

WELL DETAILS: CC Federal 0697-03-08W

+N/-S	+E/-W	Northing	Ground Level	8609.0	Latitude	39.557510	Longitude	-108.218783
0.0	0.0	1639421.28	Easting	2233543.09				

Project: Garfield County, CO
 Site: CC 604-41-32 Pad
 Well: CC Federal 0697-03-08W
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39.557510
 Longitude: -108.218783
 Ground Level: 8609.0
 Well @ 8639.0usft (RKB 30')



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC Federal 0697-03-08W, True North
 Vertical (TVD) Reference: Well @ 8639.0usft (RKB 30')
 Section (VS) Reference: Siot - (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: 51479.5nT
 Dip Angle: 65.59°
 Date: 10/4/2017
 Model: IGRF2015

FORMATION TOP DETAILS

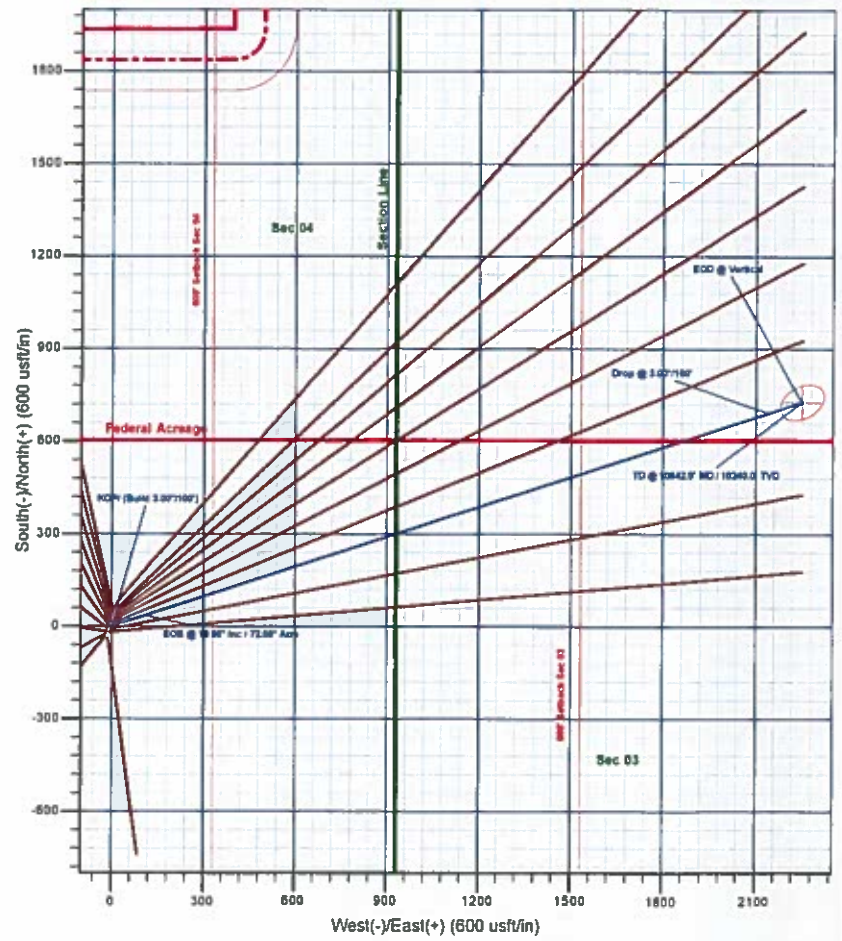
TVDPath	MDPath	Formation
606.0	606.4	Mahogany
4929.0	5190.5	Wasatch 'O' Sand
6629.0	6999.4	Ohio Creek
6779.0	7169.0	Williams Fork
7679.0	7961.9	TOG
9229.0	9631.9	Cameo
9459.0	9861.9	Base Cameo Coal
9479.0	9881.9	Rollins
9717.0	10119.9	Collette
9990.0	10392.9	Corcoran

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC Federal 0697-03-08W	10240.0	727.5	2250.5	1649081.11	2235814.34	39.558507	-108.218901

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
1065.9	19.98	72.09	1065.5	35.3	108.3	3.00	72.09	114.9	KOP/ (Build 3.00°/100')
7316.0	19.98	72.09	6925.5	612.2	2141.1	0.00	0.00	2250.2	EOB @ 19.98° Inc / 72.09° Azm
7981.9	0.00	0.00	7679.0	727.5	2250.5	3.00	180.00	2365.2	Drop @ 3.00°/100'
10642.9	0.00	0.00	10240.0	727.5	2250.5	0.00	0.00	2365.2	EOD @ Vertical





Laramie Energy, LLC

Garfield County, CO

CC 604-41-32 Pad

CC Federal 0697-03-08W

Wellbore #1

Plan: Design #3

QES Well Planning Report

04 February, 2019





Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CC Federal 0697-03-08W
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 0697-03-08W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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 0697-03-08W			
Well Position	+N/-S	-43.5 usft	Northing:	1,639,421.25 usft
	+E/-W	-3.7 usft	Easting:	2,233,543.09 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level: 8,609.0 usft

Wellbore	Wellbore #1			
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/4/2017	9.77	65.59	51,479.49591797

Design	Design #3			
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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	72.09

Plan Sections										
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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	
1,065.9	19.98	72.09	1,052.5	35.3	109.3	3.00	3.00	0.00	72.09	
7,316.0	19.98	72.09	6,926.5	692.2	2,141.1	0.00	0.00	0.00	0.00	
7,981.9	0.00	0.00	7,579.0	727.5	2,250.5	3.00	-3.00	0.00	180.00	
10,642.9	0.00	0.00	10,240.0	727.5	2,250.5	0.00	0.00	0.00	0.00	PBHL - CC Federal 08



Well Planning Report



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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 0697-03-08W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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	72.09	500.0	0.8	2.5	2.6	3.00	3.00	0.00	
600.0	6.00	72.09	599.6	3.2	10.0	10.5	3.00	3.00	0.00	
Mahogany										
606.4	6.19	72.09	606.0	3.4	10.6	11.1	3.00	3.00	0.00	
700.0	9.00	72.09	698.8	7.2	22.4	23.5	3.00	3.00	0.00	
800.0	12.00	72.09	797.1	12.8	39.7	41.7	3.00	3.00	0.00	
900.0	15.00	72.09	894.3	20.0	61.9	65.1	3.00	3.00	0.00	
1,000.0	18.00	72.09	990.2	28.8	88.9	93.5	3.00	3.00	0.00	
EOB @ 19.98° Inc / 72.09° Azm										
1,065.9	19.98	72.09	1,052.5	35.3	109.3	114.9	3.00	3.00	0.00	
1,100.0	19.98	72.09	1,084.5	38.9	120.4	126.6	0.00	0.00	0.00	
1,200.0	19.98	72.09	1,178.5	49.4	152.9	160.7	0.00	0.00	0.00	
1,300.0	19.98	72.09	1,272.5	59.9	185.4	194.9	0.00	0.00	0.00	
1,400.0	19.98	72.09	1,366.5	70.5	218.0	229.1	0.00	0.00	0.00	
1,500.0	19.98	72.09	1,460.5	81.0	250.5	263.2	0.00	0.00	0.00	
1,600.0	19.98	72.09	1,554.5	91.5	283.0	297.4	0.00	0.00	0.00	
1,700.0	19.98	72.09	1,648.4	102.0	315.5	331.6	0.00	0.00	0.00	
1,800.0	19.98	72.09	1,742.4	112.5	348.0	365.7	0.00	0.00	0.00	
1,900.0	19.98	72.09	1,836.4	123.0	380.5	399.9	0.00	0.00	0.00	
2,000.0	19.98	72.09	1,930.4	133.5	413.0	434.0	0.00	0.00	0.00	
2,100.0	19.98	72.09	2,024.4	144.0	445.5	468.2	0.00	0.00	0.00	
2,200.0	19.98	72.09	2,118.3	154.5	478.0	502.4	0.00	0.00	0.00	
2,300.0	19.98	72.09	2,212.3	165.0	510.5	536.5	0.00	0.00	0.00	
2,400.0	19.98	72.09	2,306.3	175.5	543.0	570.7	0.00	0.00	0.00	
2,500.0	19.98	72.09	2,400.3	186.1	575.5	604.9	0.00	0.00	0.00	
2,600.0	19.98	72.09	2,494.3	196.6	608.1	639.0	0.00	0.00	0.00	
2,700.0	19.98	72.09	2,588.3	207.1	640.6	673.2	0.00	0.00	0.00	
2,800.0	19.98	72.09	2,682.2	217.6	673.1	707.4	0.00	0.00	0.00	
2,900.0	19.98	72.09	2,776.2	228.1	705.6	741.5	0.00	0.00	0.00	
3,000.0	19.98	72.09	2,870.2	238.6	738.1	775.7	0.00	0.00	0.00	
3,100.0	19.98	72.09	2,964.2	249.1	770.6	809.9	0.00	0.00	0.00	
3,200.0	19.98	72.09	3,058.2	259.6	803.1	844.0	0.00	0.00	0.00	
3,300.0	19.98	72.09	3,152.2	270.1	835.6	878.2	0.00	0.00	0.00	
3,400.0	19.98	72.09	3,246.1	280.6	868.1	912.4	0.00	0.00	0.00	
3,500.0	19.98	72.09	3,340.1	291.1	900.6	946.5	0.00	0.00	0.00	
3,600.0	19.98	72.09	3,434.1	301.7	933.1	980.7	0.00	0.00	0.00	
3,700.0	19.98	72.09	3,528.1	312.2	965.6	1,014.8	0.00	0.00	0.00	
3,800.0	19.98	72.09	3,622.1	322.7	998.2	1,049.0	0.00	0.00	0.00	
3,900.0	19.98	72.09	3,716.1	333.2	1,030.7	1,083.2	0.00	0.00	0.00	
4,000.0	19.98	72.09	3,810.0	343.7	1,063.2	1,117.3	0.00	0.00	0.00	
4,100.0	19.98	72.09	3,904.0	354.2	1,095.7	1,151.5	0.00	0.00	0.00	
4,200.0	19.98	72.09	3,998.0	364.7	1,128.2	1,185.7	0.00	0.00	0.00	
4,300.0	19.98	72.09	4,092.0	375.2	1,160.7	1,219.8	0.00	0.00	0.00	
4,400.0	19.98	72.09	4,186.0	385.7	1,193.2	1,254.0	0.00	0.00	0.00	
4,500.0	19.98	72.09	4,280.0	396.2	1,225.7	1,288.2	0.00	0.00	0.00	
4,600.0	19.98	72.09	4,373.9	406.7	1,258.2	1,322.3	0.00	0.00	0.00	
4,700.0	19.98	72.09	4,467.9	417.3	1,290.7	1,356.5	0.00	0.00	0.00	



Well Planning Report



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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 0697-03-08W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
4,800.0	19.98	72.09	4,561.9	427.8	1,323.2	1,390.7	0.00	0.00	0.00
4,900.0	19.98	72.09	4,655.9	438.3	1,355.7	1,424.8	0.00	0.00	0.00
5,000.0	19.98	72.09	4,749.9	448.8	1,388.3	1,459.0	0.00	0.00	0.00
5,100.0	19.98	72.09	4,843.9	459.3	1,420.8	1,493.2	0.00	0.00	0.00
Wasatch 'G' Sand									
5,190.6	19.98	72.09	4,929.0	468.8	1,450.2	1,524.1	0.00	0.00	0.00
5,200.0	19.98	72.09	4,937.8	469.8	1,453.3	1,527.3	0.00	0.00	0.00
5,300.0	19.98	72.09	5,031.8	480.3	1,485.8	1,561.5	0.00	0.00	0.00
5,400.0	19.98	72.09	5,125.8	490.8	1,518.3	1,595.6	0.00	0.00	0.00
5,500.0	19.98	72.09	5,219.8	501.3	1,550.8	1,629.8	0.00	0.00	0.00
5,600.0	19.98	72.09	5,313.8	511.8	1,583.3	1,664.0	0.00	0.00	0.00
5,700.0	19.98	72.09	5,407.7	522.3	1,615.8	1,698.1	0.00	0.00	0.00
5,800.0	19.98	72.09	5,501.7	532.9	1,648.3	1,732.3	0.00	0.00	0.00
5,900.0	19.98	72.09	5,595.7	543.4	1,680.8	1,766.5	0.00	0.00	0.00
6,000.0	19.98	72.09	5,689.7	553.9	1,713.3	1,800.6	0.00	0.00	0.00
6,100.0	19.98	72.09	5,783.7	564.4	1,745.8	1,834.8	0.00	0.00	0.00
6,200.0	19.98	72.09	5,877.7	574.9	1,778.4	1,869.0	0.00	0.00	0.00
6,300.0	19.98	72.09	5,971.6	585.4	1,810.9	1,903.1	0.00	0.00	0.00
6,400.0	19.98	72.09	6,065.6	595.9	1,843.4	1,937.3	0.00	0.00	0.00
6,500.0	19.98	72.09	6,159.6	606.4	1,875.9	1,971.5	0.00	0.00	0.00
6,600.0	19.98	72.09	6,253.6	616.9	1,908.4	2,005.6	0.00	0.00	0.00
6,700.0	19.98	72.09	6,347.6	627.4	1,940.9	2,039.8	0.00	0.00	0.00
6,800.0	19.98	72.09	6,441.6	637.9	1,973.4	2,074.0	0.00	0.00	0.00
6,900.0	19.98	72.09	6,535.5	648.5	2,005.9	2,108.1	0.00	0.00	0.00
Ohio Creek									
6,999.4	19.98	72.09	6,629.0	658.9	2,038.2	2,142.1	0.00	0.00	0.00
7,000.0	19.98	72.09	6,629.5	659.0	2,038.4	2,142.3	0.00	0.00	0.00
7,100.0	19.98	72.09	6,723.5	669.5	2,070.9	2,176.5	0.00	0.00	0.00
Williams Fork									
7,159.0	19.98	72.09	6,779.0	675.7	2,090.1	2,196.6	0.00	0.00	0.00
7,200.0	19.98	72.09	6,817.5	680.0	2,103.4	2,210.8	0.00	0.00	0.00
7,300.0	19.98	72.09	6,911.5	690.5	2,135.9	2,244.8	0.00	0.00	0.00
Drop @ 3.00°/100'									
7,316.0	19.98	72.09	6,926.5	692.2	2,141.1	2,250.2	0.00	0.00	0.00
7,400.0	17.46	72.09	7,006.1	700.5	2,166.8	2,277.2	3.00	-3.00	0.00
7,500.0	14.46	72.09	7,102.2	708.9	2,192.9	2,304.7	3.00	-3.00	0.00
7,600.0	11.46	72.09	7,199.6	715.8	2,214.3	2,327.1	3.00	-3.00	0.00
7,700.0	8.46	72.09	7,298.1	721.1	2,230.7	2,344.4	3.00	-3.00	0.00
7,800.0	5.46	72.09	7,397.4	724.9	2,242.3	2,356.5	3.00	-3.00	0.00
7,900.0	2.46	72.09	7,497.1	727.0	2,248.8	2,363.4	3.00	-3.00	0.00
EOD @ Vertical - TOG									
7,981.9	0.00	0.00	7,579.0	727.5	2,250.5	2,365.2	3.00	-3.00	0.00
8,000.0	0.00	0.00	7,597.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,100.0	0.00	0.00	7,697.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,200.0	0.00	0.00	7,797.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,300.0	0.00	0.00	7,897.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,400.0	0.00	0.00	7,997.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,097.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,197.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,297.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,397.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,497.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,597.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,100.0	0.00	0.00	8,697.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00



Well Planning Report



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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 0697-03-08W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
9,200.0	0.00	0.00	8,797.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,300.0	0.00	0.00	8,897.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,400.0	0.00	0.00	8,997.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,097.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,197.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
Cameo									
9,631.9	0.00	0.00	9,229.0	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,297.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,397.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
Base Cameo Coal									
9,861.9	0.00	0.00	9,459.0	727.5	2,250.5	2,365.2	0.00	0.00	0.00
Rollins									
9,881.9	0.00	0.00	9,479.0	727.5	2,250.5	2,365.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,497.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,597.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
10,100.0	0.00	0.00	9,697.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
Cozzette									
10,119.9	0.00	0.00	9,717.0	727.5	2,250.5	2,365.2	0.00	0.00	0.00
10,200.0	0.00	0.00	9,797.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
10,300.0	0.00	0.00	9,897.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
Corcoran									
10,392.9	0.00	0.00	9,990.0	727.5	2,250.5	2,365.2	0.00	0.00	0.00
10,400.0	0.00	0.00	9,997.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,097.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,197.1	727.5	2,250.5	2,365.2	0.00	0.00	0.00
TD @ 10642.9' MD / 10240.0' TVD									
10,642.9	0.00	0.00	10,240.0	727.5	2,250.5	2,365.2	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/miles target - Shape									
PBHL - CC Federal 0697 - plan hits target center - Ellipse (radii L50.0 W75.0 on 150.00 azi)	0.00	0.00	10,240.0	727.5	2,250.5	1,640,081.10	2,235,814.34	39.559507	-108.210801

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,530.0	2,428.5	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 0697-03-08W
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 0697-03-08W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
606.4	606.0	Mahogany			
5,190.6	4,929.0	Wasatch 'G' Sand			
6,999.4	6,629.0	Ohio Creek			
7,159.0	6,779.0	Williams Fork			
7,981.9	7,579.0	TOG			
9,631.9	9,229.0	Cameo			
9,861.9	9,459.0	Base Cameo Coal			
9,881.9	9,479.0	Rollins			
10,119.9	9,717.0	Cozzette			
10,392.9	9,990.0	Corcoran			

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')
1,065.9	1,052.5	35.3	109.3	EOB @ 19.98° Inc / 72.09° Azm
7,316.0	6,926.5	692.2	2,141.1	Drop @ 3.00"/100'
7,981.9	7,579.0	727.5	2,250.5	EOD @ Vertical
10,642.9	10,240.0	727.5	2,250.5	TD @ 10642.9' MD / 10240.0' TVD