

Project: Rio Blanco County, CO
 Site: PCU B27 197 Pad
 Well: RNPU B27 FED 25C-22 197
 Wellbore: OH
 Design: Prelim #3
 Latitude: 39.941166
 Longitude: -108.268579
 Ground Level: 6510.0
 RKB @ 6540.0usft (30')

FORMATION TOP DETAILS			
TVDPPath	MDPath	Formation	
2472.0	2624.9	Orange Marker	
2617.0	2783.4	Wasatch	
5572.0	6013.1	Wasatch G	
6058.0	6544.3	Fort Union	
7569.0	8146.7	Ohio Creek	
8319.0	8896.8	Williams Fork	
11277.0	11855.3	Cameo	
11827.0	12405.4	Rollins	
11920.0	12498.4	Cozzette	
12520.0	13098.5	Corcoran	

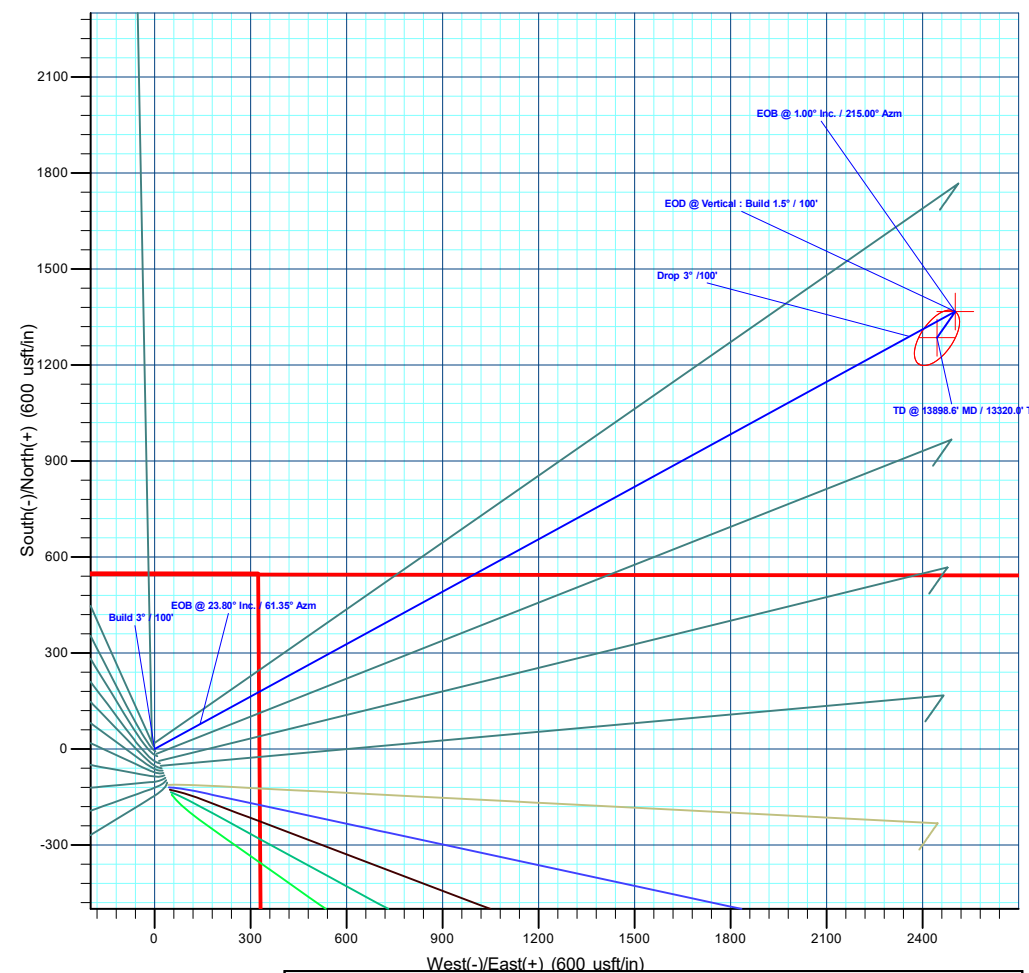
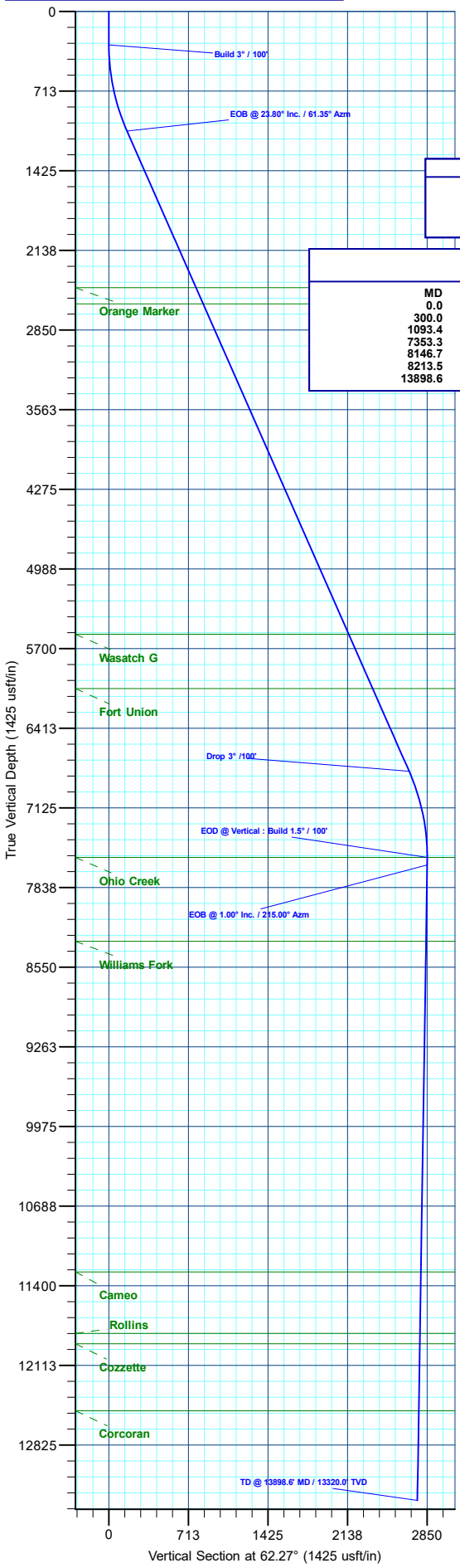
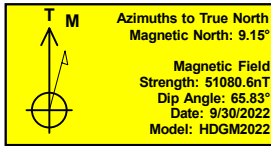
REFERENCE INFORMATION	
Co-ordinate (N/E) Reference:	Well RNPU B27 FED 25C-22 197 - Slot 25C-22, True North
Vertical (TVD) Reference:	RKB @ 6540.0usft (30')
Section (VS) Reference:	Slot - 25C-22(0.0N, 0.0E)
Measured Depth Reference:	RKB @ 6540.0usft (30')
Calculation Method:	Minimum Curvature

WELL DETAILS: RNPU B27 FED 25C-22 197					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14516342.70	6510.0 2406081.50	39.941166	-108.268579

PROJECT DETAILS: Rio Blanco County, CO	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
System Datum:	Mean Sea Level

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
25C-22 - OHCR	7569.0	1367.0	2502.4	14517785.63	2408540.83	39.944917	-108.259657
25C-22 - PBHL	13320.0	1285.0	2445.0	14517702.00	2408486.00	39.946692	-108.259861

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	Build 3° / 100'	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	EOB @ 23.80° Inc. / 61.35° Azm	
1093.4	23.80	61.35	1070.8	77.9	142.6	3.00	61.35	162.4	Drop 3° / 100'	
7353.3	23.80	61.35	6798.2	1289.1	2359.8	0.00	0.00	2688.6	EOD @ Vertical : Build 1.5° / 100'	
8146.7	0.00	0.00	7569.0	1367.0	2502.4	3.00	180.00	2851.0	Drop 3° / 100'	
8213.5	1.00	215.00	7635.8	1366.5	2502.0	1.50	215.00	2850.5	EOB @ Vertical : Build 1.5° / 100'	
13898.6	1.00	215.00	13320.0	1285.0	2445.0	0.00	0.00	2762.1	TD @ 13898.6' MD / 13320.0' TVD	



Plan: Prelim #3 (RNPU B27 FED 25C-22 197/OH)
 Created By: Will Jircik Date: 13:42, June 18 2025



QB Energy Operating, LLC

Rio Blanco County, CO

PCU B27 197 Pad

RNPU B27 FED 25C-22 197 - Slot 25C-22

OH

Plan: Prelim #3

KLX Well Planning Report

18 June, 2025



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well RNPU B27 FED 25C-22 197 - Slot 25C-22
Company:	QB Energy Operating, LLC	TVD Reference:	RKB @ 6540.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6540.0usft (30')
Site:	PCU B27 197 Pad	North Reference:	True
Well:	RNPU B27 FED 25C-22 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #3		

Project	Rio Blanco County, CO		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	PCU B27 197 Pad				
Site Position:	Northing:	14,516,246.39 usft	Latitude:	39.940899	
From: Map	Easting:	2,406,120.81 usft	Longitude:	-108.268449	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.75 °

Well	RNPU B27 FED 25C-22 197 - Slot 25C-22					
Well Position	+N/-S	97.5 usft	Northing:	14,516,342.70 usft	Latitude:	39.941166
	+E/-W	-36.3 usft	Easting:	2,406,081.50 usft	Longitude:	-108.268579
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	6,510.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	9/30/2022	9.15	65.83	51,080.60000000

Design	Prelim #3			
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	62.27

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,093.4	23.80	61.35	1,070.8	77.9	142.6	3.00	3.00	0.00	61.35	
7,353.3	23.80	61.35	6,798.2	1,289.1	2,359.8	0.00	0.00	0.00	0.00	
8,146.7	0.00	0.00	7,569.0	1,367.0	2,502.4	3.00	-3.00	0.00	180.00	25C-22 - OHCR
8,213.5	1.00	215.00	7,635.8	1,366.5	2,502.0	1.50	1.50	-217.06	215.00	
13,898.6	1.00	215.00	13,320.0	1,285.0	2,445.0	0.00	0.00	0.00	0.00	25C-22 - PBHL

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well RNPU B27 FED 25C-22 197 - Slot 25C-22
Company:	QB Energy Operating, LLC	TVD Reference:	RKB @ 6540.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6540.0usft (30')
Site:	PCU B27 197 Pad	North Reference:	True
Well:	RNPU B27 FED 25C-22 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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	0.00
100.0	0.00	0.00	100.0	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	0.0	0.00	0.00	0.00	0.00
Build 3° / 100'										
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
400.0	3.00	61.35	400.0	1.3	2.3	2.6	3.00	3.00	0.00	0.00
500.0	6.00	61.35	499.6	5.0	9.2	10.5	3.00	3.00	0.00	0.00
600.0	9.00	61.35	598.8	11.3	20.6	23.5	3.00	3.00	0.00	0.00
700.0	12.00	61.35	697.1	20.0	36.6	41.7	3.00	3.00	0.00	0.00
800.0	15.00	61.35	794.3	31.2	57.1	65.1	3.00	3.00	0.00	0.00
900.0	18.00	61.35	890.2	44.8	82.0	93.5	3.00	3.00	0.00	0.00
1,000.0	21.00	61.35	984.4	60.8	111.3	126.8	3.00	3.00	0.00	0.00
EOB @ 23.80° Inc. / 61.35° Azm										
1,093.4	23.80	61.35	1,070.8	77.9	142.6	162.4	3.00	3.00	0.00	0.00
1,100.0	23.80	61.35	1,076.8	79.2	144.9	165.1	0.00	0.00	0.00	0.00
1,200.0	23.80	61.35	1,168.3	98.5	180.3	205.4	0.00	0.00	0.00	0.00
1,300.0	23.80	61.35	1,259.8	117.8	215.7	245.8	0.00	0.00	0.00	0.00
1,400.0	23.80	61.35	1,351.3	137.2	251.2	286.1	0.00	0.00	0.00	0.00
1,500.0	23.80	61.35	1,442.8	156.5	286.6	326.5	0.00	0.00	0.00	0.00
1,600.0	23.80	61.35	1,534.3	175.9	322.0	366.9	0.00	0.00	0.00	0.00
1,700.0	23.80	61.35	1,625.8	195.2	357.4	407.2	0.00	0.00	0.00	0.00
1,800.0	23.80	61.35	1,717.3	214.6	392.8	447.6	0.00	0.00	0.00	0.00
1,900.0	23.80	61.35	1,808.8	233.9	428.3	487.9	0.00	0.00	0.00	0.00
2,000.0	23.80	61.35	1,900.3	253.3	463.7	528.3	0.00	0.00	0.00	0.00
2,100.0	23.80	61.35	1,991.8	272.6	499.1	568.6	0.00	0.00	0.00	0.00
2,200.0	23.80	61.35	2,083.2	292.0	534.5	609.0	0.00	0.00	0.00	0.00
2,300.0	23.80	61.35	2,174.7	311.3	569.9	649.3	0.00	0.00	0.00	0.00
2,400.0	23.80	61.35	2,266.2	330.7	605.3	689.7	0.00	0.00	0.00	0.00
2,500.0	23.80	61.35	2,357.7	350.0	640.8	730.0	0.00	0.00	0.00	0.00
2,600.0	23.80	61.35	2,449.2	369.4	676.2	770.4	0.00	0.00	0.00	0.00
Orange Marker										
2,624.9	23.80	61.35	2,472.0	374.2	685.0	780.4	0.00	0.00	0.00	0.00
2,700.0	23.80	61.35	2,540.7	388.7	711.6	810.8	0.00	0.00	0.00	0.00
Wasatch										
2,783.4	23.80	61.35	2,617.0	404.9	741.1	844.4	0.00	0.00	0.00	0.00
2,800.0	23.80	61.35	2,632.2	408.1	747.0	851.1	0.00	0.00	0.00	0.00
2,900.0	23.80	61.35	2,723.7	427.4	782.4	891.5	0.00	0.00	0.00	0.00
3,000.0	23.80	61.35	2,815.2	446.8	817.9	931.8	0.00	0.00	0.00	0.00
3,100.0	23.80	61.35	2,906.7	466.1	853.3	972.2	0.00	0.00	0.00	0.00
3,200.0	23.80	61.35	2,998.2	485.5	888.7	1,012.5	0.00	0.00	0.00	0.00
3,300.0	23.80	61.35	3,089.7	504.8	924.1	1,052.9	0.00	0.00	0.00	0.00
3,400.0	23.80	61.35	3,181.2	524.2	959.5	1,093.2	0.00	0.00	0.00	0.00
3,500.0	23.80	61.35	3,272.7	543.5	995.0	1,133.6	0.00	0.00	0.00	0.00
3,600.0	23.80	61.35	3,364.2	562.9	1,030.4	1,173.9	0.00	0.00	0.00	0.00
3,700.0	23.80	61.35	3,455.7	582.2	1,065.8	1,214.3	0.00	0.00	0.00	0.00
3,800.0	23.80	61.35	3,547.1	601.6	1,101.2	1,254.7	0.00	0.00	0.00	0.00
3,900.0	23.80	61.35	3,638.6	620.9	1,136.6	1,295.0	0.00	0.00	0.00	0.00
4,000.0	23.80	61.35	3,730.1	640.3	1,172.1	1,335.4	0.00	0.00	0.00	0.00
4,100.0	23.80	61.35	3,821.6	659.6	1,207.5	1,375.7	0.00	0.00	0.00	0.00
4,200.0	23.80	61.35	3,913.1	679.0	1,242.9	1,416.1	0.00	0.00	0.00	0.00
4,300.0	23.80	61.35	4,004.6	698.3	1,278.3	1,456.4	0.00	0.00	0.00	0.00
4,400.0	23.80	61.35	4,096.1	717.7	1,313.7	1,496.8	0.00	0.00	0.00	0.00
4,500.0	23.80	61.35	4,187.6	737.0	1,349.2	1,537.1	0.00	0.00	0.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well RNPU B27 FED 25C-22 197 - Slot 25C-22
Company:	QB Energy Operating, LLC	TVD Reference:	RKB @ 6540.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6540.0usft (30')
Site:	PCU B27 197 Pad	North Reference:	True
Well:	RNPU B27 FED 25C-22 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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)
4,600.0	23.80	61.35	4,279.1	756.4	1,384.6	1,577.5	0.00	0.00	0.00
4,700.0	23.80	61.35	4,370.6	775.7	1,420.0	1,617.8	0.00	0.00	0.00
4,800.0	23.80	61.35	4,462.1	795.0	1,455.4	1,658.2	0.00	0.00	0.00
4,900.0	23.80	61.35	4,553.6	814.4	1,490.8	1,698.6	0.00	0.00	0.00
5,000.0	23.80	61.35	4,645.1	833.7	1,526.3	1,738.9	0.00	0.00	0.00
5,100.0	23.80	61.35	4,736.6	853.1	1,561.7	1,779.3	0.00	0.00	0.00
5,200.0	23.80	61.35	4,828.1	872.4	1,597.1	1,819.6	0.00	0.00	0.00
5,300.0	23.80	61.35	4,919.5	891.8	1,632.5	1,860.0	0.00	0.00	0.00
5,400.0	23.80	61.35	5,011.0	911.1	1,667.9	1,900.3	0.00	0.00	0.00
5,500.0	23.80	61.35	5,102.5	930.5	1,703.4	1,940.7	0.00	0.00	0.00
5,600.0	23.80	61.35	5,194.0	949.8	1,738.8	1,981.0	0.00	0.00	0.00
5,700.0	23.80	61.35	5,285.5	969.2	1,774.2	2,021.4	0.00	0.00	0.00
5,800.0	23.80	61.35	5,377.0	988.5	1,809.6	2,061.7	0.00	0.00	0.00
5,900.0	23.80	61.35	5,468.5	1,007.9	1,845.0	2,102.1	0.00	0.00	0.00
6,000.0	23.80	61.35	5,560.0	1,027.2	1,880.4	2,142.5	0.00	0.00	0.00
Wasatch G									
6,013.1	23.80	61.35	5,572.0	1,029.8	1,885.1	2,147.7	0.00	0.00	0.00
6,100.0	23.80	61.35	5,651.5	1,046.6	1,915.9	2,182.8	0.00	0.00	0.00
6,200.0	23.80	61.35	5,743.0	1,065.9	1,951.3	2,223.2	0.00	0.00	0.00
6,300.0	23.80	61.35	5,834.5	1,085.3	1,986.7	2,263.5	0.00	0.00	0.00
6,400.0	23.80	61.35	5,926.0	1,104.6	2,022.1	2,303.9	0.00	0.00	0.00
6,500.0	23.80	61.35	6,017.5	1,124.0	2,057.5	2,344.2	0.00	0.00	0.00
Fort Union									
6,544.3	23.80	61.35	6,058.0	1,132.5	2,073.2	2,362.1	0.00	0.00	0.00
6,600.0	23.80	61.35	6,109.0	1,143.3	2,093.0	2,384.6	0.00	0.00	0.00
6,700.0	23.80	61.35	6,200.5	1,162.7	2,128.4	2,424.9	0.00	0.00	0.00
6,800.0	23.80	61.35	6,292.0	1,182.0	2,163.8	2,465.3	0.00	0.00	0.00
6,900.0	23.80	61.35	6,383.4	1,201.4	2,199.2	2,505.6	0.00	0.00	0.00
7,000.0	23.80	61.35	6,474.9	1,220.7	2,234.6	2,546.0	0.00	0.00	0.00
7,100.0	23.80	61.35	6,566.4	1,240.1	2,270.1	2,586.4	0.00	0.00	0.00
7,200.0	23.80	61.35	6,657.9	1,259.4	2,305.5	2,626.7	0.00	0.00	0.00
7,300.0	23.80	61.35	6,749.4	1,278.8	2,340.9	2,667.1	0.00	0.00	0.00
Drop 3° /100'									
7,353.3	23.80	61.35	6,798.2	1,289.1	2,359.8	2,688.6	0.00	0.00	0.00
7,400.0	22.40	61.35	6,841.1	1,297.9	2,375.9	2,706.9	3.00	-3.00	0.00
7,500.0	19.40	61.35	6,934.6	1,315.0	2,407.2	2,742.6	3.00	-3.00	0.00
7,600.0	16.40	61.35	7,029.7	1,329.7	2,434.1	2,773.3	3.00	-3.00	0.00
7,700.0	13.40	61.35	7,126.3	1,342.0	2,456.7	2,799.0	3.00	-3.00	0.00
7,800.0	10.40	61.35	7,224.2	1,351.9	2,474.8	2,819.6	3.00	-3.00	0.00
7,900.0	7.40	61.35	7,322.9	1,359.3	2,488.4	2,835.1	3.00	-3.00	0.00
8,000.0	4.40	61.35	7,422.4	1,364.3	2,497.4	2,845.4	3.00	-3.00	0.00
8,100.0	1.40	61.35	7,522.3	1,366.7	2,501.9	2,850.4	3.00	-3.00	0.00
EOD @ Vertical : Build 1.5° / 100' - Ohio Creek									
8,146.7	0.00	0.00	7,569.0	1,367.0	2,502.4	2,851.0	3.00	-3.00	-131.27
8,200.0	0.80	215.00	7,622.3	1,366.7	2,502.1	2,850.7	1.50	1.50	-272.23
EOB @ 1.00° Inc. / 215.00° Azm									
8,213.5	1.00	215.00	7,635.8	1,366.5	2,502.0	2,850.5	1.50	1.50	0.00
8,300.0	1.00	215.00	7,722.2	1,365.2	2,501.2	2,849.1	0.00	0.00	0.00
8,400.0	1.00	215.00	7,822.2	1,363.8	2,500.1	2,847.6	0.00	0.00	0.00
8,500.0	1.00	215.00	7,922.2	1,362.4	2,499.1	2,846.0	0.00	0.00	0.00
8,600.0	1.00	215.00	8,022.2	1,360.9	2,498.1	2,844.5	0.00	0.00	0.00
8,700.0	1.00	215.00	8,122.2	1,359.5	2,497.1	2,842.9	0.00	0.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well RNPU B27 FED 25C-22 197 - Slot 25C-22
Company:	QB Energy Operating, LLC	TVD Reference:	RKB @ 6540.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6540.0usft (30')
Site:	PCU B27 197 Pad	North Reference:	True
Well:	RNPU B27 FED 25C-22 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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)	
8,800.0	1.00	215.00	8,222.2	1,358.1	2,496.1	2,841.4	0.00	0.00	0.00	
Williams Fork										
8,896.8	1.00	215.00	8,319.0	1,356.7	2,495.2	2,839.9	0.00	0.00	0.00	
8,900.0	1.00	215.00	8,322.2	1,356.6	2,495.1	2,839.8	0.00	0.00	0.00	
9,000.0	1.00	215.00	8,422.1	1,355.2	2,494.1	2,838.3	0.00	0.00	0.00	
9,100.0	1.00	215.00	8,522.1	1,353.8	2,493.1	2,836.7	0.00	0.00	0.00	
9,200.0	1.00	215.00	8,622.1	1,352.3	2,492.1	2,835.2	0.00	0.00	0.00	
9,300.0	1.00	215.00	8,722.1	1,350.9	2,491.1	2,833.6	0.00	0.00	0.00	
9,400.0	1.00	215.00	8,822.1	1,349.5	2,490.1	2,832.0	0.00	0.00	0.00	
9,500.0	1.00	215.00	8,922.1	1,348.1	2,489.1	2,830.5	0.00	0.00	0.00	
9,600.0	1.00	215.00	9,022.0	1,346.6	2,488.1	2,828.9	0.00	0.00	0.00	
9,700.0	1.00	215.00	9,122.0	1,345.2	2,487.1	2,827.4	0.00	0.00	0.00	
9,800.0	1.00	215.00	9,222.0	1,343.8	2,486.1	2,825.8	0.00	0.00	0.00	
9,900.0	1.00	215.00	9,322.0	1,342.3	2,485.1	2,824.3	0.00	0.00	0.00	
10,000.0	1.00	215.00	9,422.0	1,340.9	2,484.1	2,822.7	0.00	0.00	0.00	
10,100.0	1.00	215.00	9,522.0	1,339.5	2,483.1	2,821.2	0.00	0.00	0.00	
10,200.0	1.00	215.00	9,622.0	1,338.0	2,482.1	2,819.6	0.00	0.00	0.00	
10,300.0	1.00	215.00	9,721.9	1,336.6	2,481.1	2,818.1	0.00	0.00	0.00	
10,400.0	1.00	215.00	9,821.9	1,335.2	2,480.1	2,816.5	0.00	0.00	0.00	
10,500.0	1.00	215.00	9,921.9	1,333.7	2,479.1	2,814.9	0.00	0.00	0.00	
10,600.0	1.00	215.00	10,021.9	1,332.3	2,478.1	2,813.4	0.00	0.00	0.00	
10,700.0	1.00	215.00	10,121.9	1,330.9	2,477.1	2,811.8	0.00	0.00	0.00	
10,800.0	1.00	215.00	10,221.9	1,329.4	2,476.1	2,810.3	0.00	0.00	0.00	
10,900.0	1.00	215.00	10,321.8	1,328.0	2,475.1	2,808.7	0.00	0.00	0.00	
11,000.0	1.00	215.00	10,421.8	1,326.6	2,474.1	2,807.2	0.00	0.00	0.00	
11,100.0	1.00	215.00	10,521.8	1,325.1	2,473.1	2,805.6	0.00	0.00	0.00	
11,200.0	1.00	215.00	10,621.8	1,323.7	2,472.1	2,804.1	0.00	0.00	0.00	
11,300.0	1.00	215.00	10,721.8	1,322.3	2,471.1	2,802.5	0.00	0.00	0.00	
11,400.0	1.00	215.00	10,821.8	1,320.8	2,470.1	2,801.0	0.00	0.00	0.00	
11,500.0	1.00	215.00	10,921.8	1,319.4	2,469.1	2,799.4	0.00	0.00	0.00	
11,600.0	1.00	215.00	11,021.7	1,318.0	2,468.0	2,797.9	0.00	0.00	0.00	
11,700.0	1.00	215.00	11,121.7	1,316.5	2,467.0	2,796.3	0.00	0.00	0.00	
11,800.0	1.00	215.00	11,221.7	1,315.1	2,466.0	2,794.7	0.00	0.00	0.00	
Cameo										
11,855.3	1.00	215.00	11,277.0	1,314.3	2,465.5	2,793.9	0.00	0.00	0.00	
11,900.0	1.00	215.00	11,321.7	1,313.7	2,465.0	2,793.2	0.00	0.00	0.00	
12,000.0	1.00	215.00	11,421.7	1,312.2	2,464.0	2,791.6	0.00	0.00	0.00	
12,100.0	1.00	215.00	11,521.7	1,310.8	2,463.0	2,790.1	0.00	0.00	0.00	
12,200.0	1.00	215.00	11,621.6	1,309.4	2,462.0	2,788.5	0.00	0.00	0.00	
12,300.0	1.00	215.00	11,721.6	1,307.9	2,461.0	2,787.0	0.00	0.00	0.00	
12,400.0	1.00	215.00	11,821.6	1,306.5	2,460.0	2,785.4	0.00	0.00	0.00	
Rollins										
12,405.4	1.00	215.00	11,827.0	1,306.4	2,460.0	2,785.3	0.00	0.00	0.00	
Cozette										
12,498.4	1.00	215.00	11,920.0	1,305.1	2,459.0	2,783.9	0.00	0.00	0.00	
12,500.0	1.00	215.00	11,921.6	1,305.1	2,459.0	2,783.9	0.00	0.00	0.00	
12,600.0	1.00	215.00	12,021.6	1,303.6	2,458.0	2,782.3	0.00	0.00	0.00	
12,700.0	1.00	215.00	12,121.6	1,302.2	2,457.0	2,780.8	0.00	0.00	0.00	
12,800.0	1.00	215.00	12,221.6	1,300.8	2,456.0	2,779.2	0.00	0.00	0.00	
12,900.0	1.00	215.00	12,321.5	1,299.3	2,455.0	2,777.6	0.00	0.00	0.00	
13,000.0	1.00	215.00	12,421.5	1,297.9	2,454.0	2,776.1	0.00	0.00	0.00	
Corcoran										

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well RNPU B27 FED 25C-22 197 - Slot 25C-22
Company:	QB Energy Operating, LLC	TVD Reference:	RKB @ 6540.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6540.0usft (30')
Site:	PCU B27 197 Pad	North Reference:	True
Well:	RNPU B27 FED 25C-22 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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)	
13,098.5	1.00	215.00	12,520.0	1,296.5	2,453.0	2,774.6	0.00	0.00	0.00	
13,100.0	1.00	215.00	12,521.5	1,296.5	2,453.0	2,774.5	0.00	0.00	0.00	
13,200.0	1.00	215.00	12,621.5	1,295.1	2,452.0	2,773.0	0.00	0.00	0.00	
13,300.0	1.00	215.00	12,721.5	1,293.6	2,451.0	2,771.4	0.00	0.00	0.00	
13,400.0	1.00	215.00	12,821.5	1,292.2	2,450.0	2,769.9	0.00	0.00	0.00	
13,500.0	1.00	215.00	12,921.4	1,290.8	2,449.0	2,768.3	0.00	0.00	0.00	
13,600.0	1.00	215.00	13,021.4	1,289.3	2,448.0	2,766.8	0.00	0.00	0.00	
13,700.0	1.00	215.00	13,121.4	1,287.9	2,447.0	2,765.2	0.00	0.00	0.00	
13,800.0	1.00	215.00	13,221.4	1,286.5	2,446.0	2,763.7	0.00	0.00	0.00	
TD @ 13898.6' MD / 13320.0' TVD										
13,898.6	1.00	215.00	13,320.0	1,285.0	2,445.0	2,762.1	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	
25C-22 - OHCR - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,569.0	1,367.0	2,502.4	14,517,785.63	2,408,540.83	39.944917	-108.259657	
25C-22 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 215.00 azi)	0.00	0.00	13,320.0	1,285.0	2,445.0	14,517,702.00	2,408,486.00	39.944692	-108.259862	

Formations							
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)		
2,624.9	2,472.0	Orange Marker					
2,783.4	2,617.0	Wasatch					
6,013.1	5,572.0	Wasatch G					
6,544.3	6,058.0	Fort Union					
8,146.7	7,569.0	Ohio Creek					
8,896.8	8,319.0	Williams Fork					
11,855.3	11,277.0	Cameo					
12,405.4	11,827.0	Rollins					
12,498.4	11,920.0	Cozzette					
13,098.5	12,520.0	Corcoran					

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well RNPU B27 FED 25C-22 197 - Slot 25C-22
Company:	QB Energy Operating, LLC	TVD Reference:	RKB @ 6540.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6540.0usft (30')
Site:	PCU B27 197 Pad	North Reference:	True
Well:	RNPU B27 FED 25C-22 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #3		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
300.0	300.0	0.0	0.0	Build 3° / 100'
1,093.4	1,070.8	77.9	142.6	EOB @ 23.80° Inc. / 61.35° Azm
7,353.3	6,798.2	1,289.1	2,359.8	Drop 3° / 100'
8,146.7	7,569.0	1,367.0	2,502.4	EOD @ Vertical : Build 1.5° / 100'
8,213.5	7,635.8	1,366.5	2,502.0	EOB @ 1.00° Inc. / 215.00° Azm
13,898.6	13,320.0	1,285.0	2,445.0	TD @ 13898.6' MD / 13320.0' TVD