

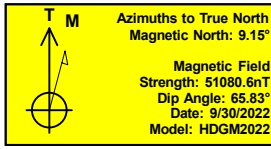
Project: Rio Blanco County, CO  
 Site: PCU B27 197 Pad  
 Well: RNPU B27 FED 11A-22 197  
 Wellbore: OH  
 Design: Prelim #2  
 Latitude: 39.940981  
 Longitude: -108.268489  
 Ground Level: 6510.0  
 WELL @ 6540.0usft (30')

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2482.0	2546.0	Orange Marker
2632.0	2701.1	Wasatch
5508.0	5674.0	Wasatch G
5979.0	6160.8	Fort Union
7475.0	7696.3	Ohio Creek
8225.0	8446.4	Williams Fork
11093.0	11314.8	Cameo
11643.0	11864.9	Rollins
11741.0	11962.9	Cozzette
12341.0	12563.0	Corcoran

REFERENCE INFORMATION	
Co-ordinate (NE) Reference: Well RNPU B27 FED 11A-22 197 - Slot 11A-22, True North	
Vertical (TVD) Reference: WELL @ 6540.0usft (30')	
Section (VS) Reference: Slot - 11A-22(0.0N, 0.0E)	
Measured Depth Reference: WELL @ 6540.0usft (30')	
Calculation Method: Minimum Curvature	

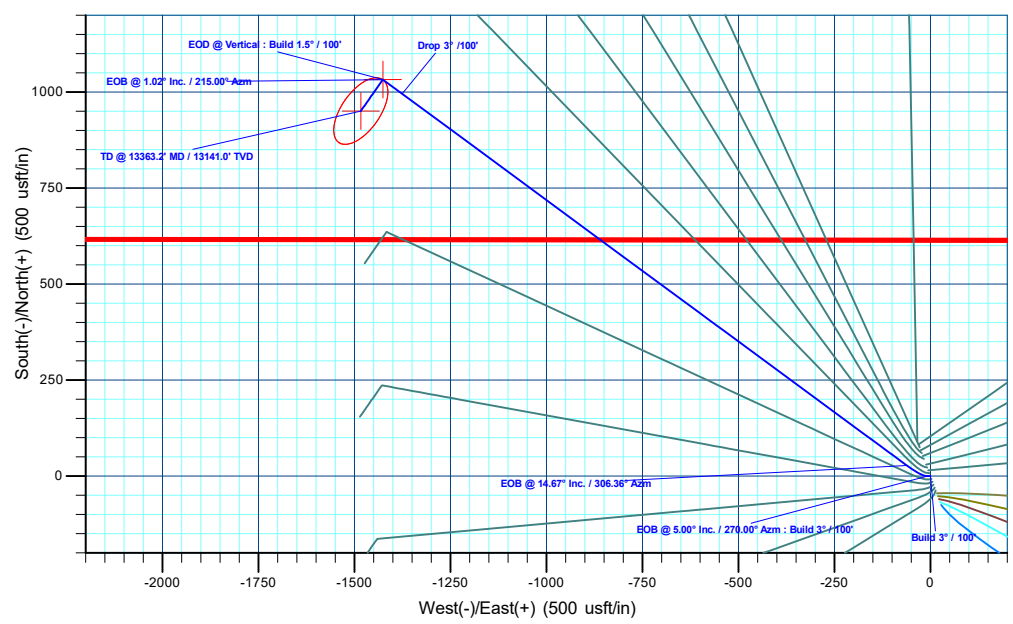
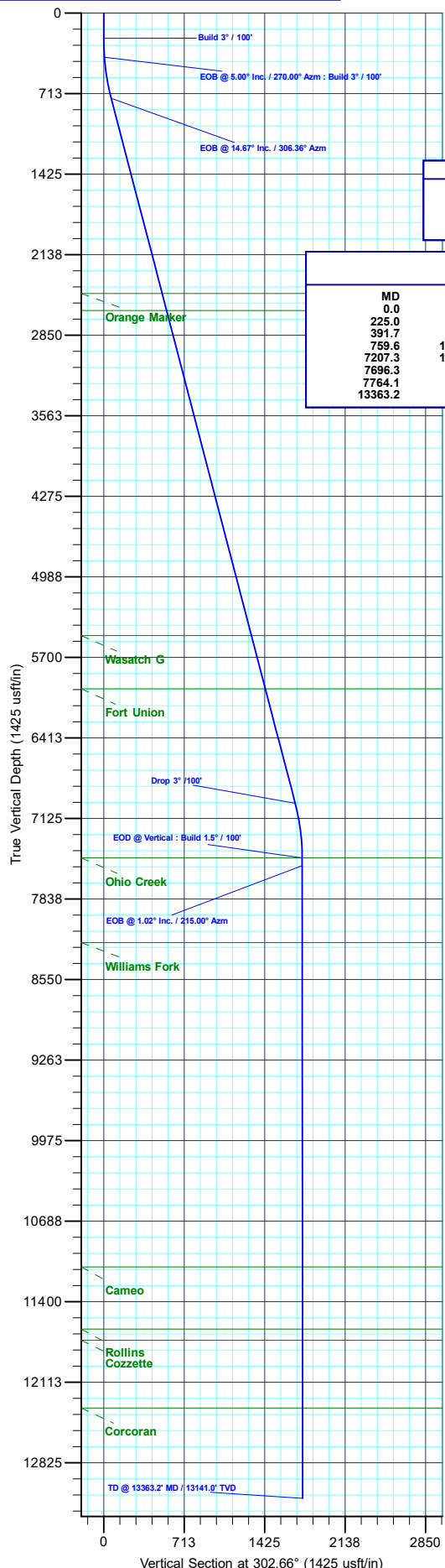
WELL DETAILS: RNPU B27 FED 11A-22 197					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14516276.00	2406108.70	39.940981	-108.268489
11A-22					

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
11A-22 - OHCR	7475.0	1032.8	-1425.9	14517264.63	2404651.83	39.943815	-108.273573
11A-22 - PBHL	13141.0	950.9	-1483.3	14517181.00	2404597.00	39.943590	-108.273778

SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'	
225.0	0.00	0.00	225.0	0.0	0.0	0.00	0.00	0.0	EOB @ 5.00° Inc. / 270.00° Azm : Build 3° / 100'	
391.7	5.00	270.00	391.5	0.0	-7.3	3.00	270.00	6.1	EOB @ 14.67° Inc. / 306.36° Azm	
759.6	14.67	306.37	753.9	27.7	-61.0	3.00	51.64	66.3	Drop 3° / 100'	
7207.3	14.67	306.37	6991.4	97.9	-1375.8	0.00	0.00	1695.7	EOD @ Vertical : Build 1.5° / 100'	
7696.3	0.00	0.00	7475.0	1032.8	-1425.9	3.00	180.00	1757.8	EOD @ Vertical : Build 1.5° / 100'	
7764.1	1.02	215.00	7542.8	1032.3	-1426.3	1.50	215.00	1757.8	EOB @ 1.02° Inc. / 215.00° Azm	
13363.2	1.02	215.00	13141.0	950.9	-1483.3	0.00	0.00	1761.9	TD @ 13363.2' MD / 13141.0' TVD	



Plan: Prelim #2 (RNPU B27 FED 11A-22 197/OH)  
 Created By: Will Jircik Date: 12:45, June 18 2025



## **QB Energy Operating, LLC**

Rio Blanco County, CO

PCU B27 197 Pad

RNPU B27 FED 11A-22 197 - Slot 11A-22

OH

Plan: Prelim #2

## **KLX Well Planning Report**

18 June, 2025



<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 11A-22 197 - Slot 11A-22
<b>Company:</b>	QB Energy Operating, LLC	<b>TVD Reference:</b>	WELL @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	WELL @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 11A-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim #2		

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

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

<b>Well</b>	RNPU B27 FED 11A-22 197 - Slot 11A-22					
<b>Well Position</b>	<b>+N/-S</b>	30.0 usft	<b>Northing:</b>	14,516,276.00 usft	<b>Latitude:</b>	39.940981
	<b>+E/-W</b>	-11.2 usft	<b>Easting:</b>	2,406,108.70 usft	<b>Longitude:</b>	-108.268489
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	6,510.0 usft

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

<b>Design</b>	Prelim #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	302.66

<b>Plan Sections</b>										
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	
225.0	0.00	0.00	225.0	0.0	0.0	0.00	0.00	0.00	0.00	
391.7	5.00	270.00	391.5	0.0	-7.3	3.00	3.00	0.00	270.00	
759.6	14.67	306.37	753.9	27.7	-61.0	3.00	2.63	9.88	51.64	
7,207.3	14.67	306.37	6,991.4	995.9	-1,375.8	0.00	0.00	0.00	0.00	
7,696.3	0.00	0.00	7,475.0	1,032.8	-1,425.9	3.00	-3.00	0.00	180.00	11A-22 - OHCR
7,764.1	1.02	215.00	7,542.8	1,032.3	-1,426.3	1.50	1.50	-213.81	215.00	
13,363.2	1.02	215.00	13,141.0	950.9	-1,483.3	0.00	0.00	0.00	0.00	11A-22 - PBHL

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 11A-22 197 - Slot 11A-22
<b>Company:</b>	QB Energy Operating, LLC	<b>TVD Reference:</b>	WELL @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	WELL @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 11A-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim #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
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Build 3° / 100'</b>									
225.0	0.00	0.00	225.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	2.25	270.00	300.0	0.0	-1.5	1.2	3.00	3.00	0.00
<b>EOB @ 5.00° Inc. / 270.00° Azm : Build 3° / 100'</b>									
391.7	5.00	270.00	391.5	0.0	-7.3	6.1	3.00	3.00	0.00
400.0	5.16	272.18	399.8	0.0	-8.0	6.7	3.00	1.91	26.17
500.0	7.46	290.01	499.2	2.4	-18.6	17.0	3.00	2.31	17.83
600.0	10.14	299.01	598.0	8.9	-32.4	32.1	3.00	2.67	9.00
700.0	12.95	304.21	695.9	19.5	-49.4	52.1	3.00	2.82	5.20
<b>EOB @ 14.67° Inc. / 306.36° Azm</b>									
759.6	14.67	306.37	753.9	27.7	-61.0	66.3	3.00	2.87	3.61
800.0	14.67	306.37	792.9	33.8	-69.2	76.5	0.00	0.00	0.00
900.0	14.67	306.37	889.6	48.8	-89.6	101.8	0.00	0.00	0.00
1,000.0	14.67	306.37	986.4	63.8	-110.0	127.0	0.00	0.00	0.00
1,100.0	14.67	306.37	1,083.1	78.8	-130.4	152.3	0.00	0.00	0.00
1,200.0	14.67	306.37	1,179.9	93.8	-150.8	177.6	0.00	0.00	0.00
1,300.0	14.67	306.37	1,276.6	108.8	-171.2	202.9	0.00	0.00	0.00
1,400.0	14.67	306.37	1,373.3	123.9	-191.6	228.1	0.00	0.00	0.00
1,500.0	14.67	306.37	1,470.1	138.9	-212.0	253.4	0.00	0.00	0.00
1,600.0	14.67	306.37	1,566.8	153.9	-232.4	278.7	0.00	0.00	0.00
1,700.0	14.67	306.37	1,663.6	168.9	-252.7	303.9	0.00	0.00	0.00
1,800.0	14.67	306.37	1,760.3	183.9	-273.1	329.2	0.00	0.00	0.00
1,900.0	14.67	306.37	1,857.0	198.9	-293.5	354.5	0.00	0.00	0.00
2,000.0	14.67	306.37	1,953.8	214.0	-313.9	379.7	0.00	0.00	0.00
2,100.0	14.67	306.37	2,050.5	229.0	-334.3	405.0	0.00	0.00	0.00
2,200.0	14.67	306.37	2,147.3	244.0	-354.7	430.3	0.00	0.00	0.00
2,300.0	14.67	306.37	2,244.0	259.0	-375.1	455.6	0.00	0.00	0.00
2,400.0	14.67	306.37	2,340.7	274.0	-395.5	480.8	0.00	0.00	0.00
2,500.0	14.67	306.37	2,437.5	289.0	-415.9	506.1	0.00	0.00	0.00
<b>Orange Marker</b>									
2,546.0	14.67	306.37	2,482.0	295.9	-425.3	517.7	0.00	0.00	0.00
2,600.0	14.67	306.37	2,534.2	304.1	-436.3	531.4	0.00	0.00	0.00
2,700.0	14.67	306.37	2,631.0	319.1	-456.7	556.6	0.00	0.00	0.00
<b>Wasatch</b>									
2,701.1	14.67	306.37	2,632.0	319.2	-456.9	556.9	0.00	0.00	0.00
2,800.0	14.67	306.37	2,727.7	334.1	-477.1	581.9	0.00	0.00	0.00
2,900.0	14.67	306.37	2,824.4	349.1	-497.4	607.2	0.00	0.00	0.00
3,000.0	14.67	306.37	2,921.2	364.1	-517.8	632.5	0.00	0.00	0.00
3,100.0	14.67	306.37	3,017.9	379.1	-538.2	657.7	0.00	0.00	0.00
3,200.0	14.67	306.37	3,114.7	394.1	-558.6	683.0	0.00	0.00	0.00
3,300.0	14.67	306.37	3,211.4	409.2	-579.0	708.3	0.00	0.00	0.00
3,400.0	14.67	306.37	3,308.1	424.2	-599.4	733.5	0.00	0.00	0.00
3,500.0	14.67	306.37	3,404.9	439.2	-619.8	758.8	0.00	0.00	0.00
3,600.0	14.67	306.37	3,501.6	454.2	-640.2	784.1	0.00	0.00	0.00
3,700.0	14.67	306.37	3,598.4	469.2	-660.6	809.4	0.00	0.00	0.00
3,800.0	14.67	306.37	3,695.1	484.2	-681.0	834.6	0.00	0.00	0.00
3,900.0	14.67	306.37	3,791.9	499.3	-701.4	859.9	0.00	0.00	0.00
4,000.0	14.67	306.37	3,888.6	514.3	-721.8	885.2	0.00	0.00	0.00
4,100.0	14.67	306.37	3,985.3	529.3	-742.2	910.4	0.00	0.00	0.00

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 11A-22 197 - Slot 11A-22
<b>Company:</b>	QB Energy Operating, LLC	<b>TVD Reference:</b>	WELL @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	WELL @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 11A-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim #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)	
4,200.0	14.67	306.37	4,082.1	544.3	-762.5	935.7	0.00	0.00	0.00	
4,300.0	14.67	306.37	4,178.8	559.3	-782.9	961.0	0.00	0.00	0.00	
4,400.0	14.67	306.37	4,275.6	574.3	-803.3	986.3	0.00	0.00	0.00	
4,500.0	14.67	306.37	4,372.3	589.3	-823.7	1,011.5	0.00	0.00	0.00	
4,600.0	14.67	306.37	4,469.0	604.4	-844.1	1,036.8	0.00	0.00	0.00	
4,700.0	14.67	306.37	4,565.8	619.4	-864.5	1,062.1	0.00	0.00	0.00	
4,800.0	14.67	306.37	4,662.5	634.4	-884.9	1,087.3	0.00	0.00	0.00	
4,900.0	14.67	306.37	4,759.3	649.4	-905.3	1,112.6	0.00	0.00	0.00	
5,000.0	14.67	306.37	4,856.0	664.4	-925.7	1,137.9	0.00	0.00	0.00	
5,100.0	14.67	306.37	4,952.7	679.4	-946.1	1,163.1	0.00	0.00	0.00	
5,200.0	14.67	306.37	5,049.5	694.5	-966.5	1,188.4	0.00	0.00	0.00	
5,300.0	14.67	306.37	5,146.2	709.5	-986.9	1,213.7	0.00	0.00	0.00	
5,400.0	14.67	306.37	5,243.0	724.5	-1,007.2	1,239.0	0.00	0.00	0.00	
5,500.0	14.67	306.37	5,339.7	739.5	-1,027.6	1,264.2	0.00	0.00	0.00	
5,600.0	14.67	306.37	5,436.4	754.5	-1,048.0	1,289.5	0.00	0.00	0.00	
<b>Wasatch G</b>										
5,674.0	14.67	306.37	5,508.0	765.6	-1,063.1	1,308.2	0.00	0.00	0.00	
5,700.0	14.67	306.37	5,533.2	769.5	-1,068.4	1,314.8	0.00	0.00	0.00	
5,800.0	14.67	306.37	5,629.9	784.5	-1,088.8	1,340.0	0.00	0.00	0.00	
5,900.0	14.67	306.37	5,726.7	799.6	-1,109.2	1,365.3	0.00	0.00	0.00	
6,000.0	14.67	306.37	5,823.4	814.6	-1,129.6	1,390.6	0.00	0.00	0.00	
6,100.0	14.67	306.37	5,920.1	829.6	-1,150.0	1,415.9	0.00	0.00	0.00	
<b>Fort Union</b>										
6,160.8	14.67	306.37	5,979.0	838.7	-1,162.4	1,431.2	0.00	0.00	0.00	
6,200.0	14.67	306.37	6,016.9	844.6	-1,170.4	1,441.1	0.00	0.00	0.00	
6,300.0	14.67	306.37	6,113.6	859.6	-1,190.8	1,466.4	0.00	0.00	0.00	
6,400.0	14.67	306.37	6,210.4	874.6	-1,211.2	1,491.7	0.00	0.00	0.00	
6,500.0	14.67	306.37	6,307.1	889.7	-1,231.6	1,516.9	0.00	0.00	0.00	
6,600.0	14.67	306.37	6,403.8	904.7	-1,251.9	1,542.2	0.00	0.00	0.00	
6,700.0	14.67	306.37	6,500.6	919.7	-1,272.3	1,567.5	0.00	0.00	0.00	
6,800.0	14.67	306.37	6,597.3	934.7	-1,292.7	1,592.8	0.00	0.00	0.00	
6,900.0	14.67	306.37	6,694.1	949.7	-1,313.1	1,618.0	0.00	0.00	0.00	
7,000.0	14.67	306.37	6,790.8	964.7	-1,333.5	1,643.3	0.00	0.00	0.00	
7,100.0	14.67	306.37	6,887.5	979.7	-1,353.9	1,668.6	0.00	0.00	0.00	
<b>Drop 3° /100'</b>										
7,207.3	14.67	306.37	6,991.4	995.9	-1,375.8	1,695.7	0.00	0.00	0.00	
7,300.0	11.89	306.37	7,081.6	1,008.5	-1,392.9	1,716.9	3.00	-3.00	0.00	
7,400.0	8.89	306.37	7,179.9	1,019.2	-1,407.5	1,734.9	3.00	-3.00	0.00	
7,500.0	5.89	306.37	7,279.1	1,026.8	-1,417.8	1,747.7	3.00	-3.00	0.00	
7,600.0	2.89	306.37	7,378.8	1,031.3	-1,424.0	1,755.4	3.00	-3.00	0.00	
<b>EOD @ Vertical : Build 1.5° / 100' - Ohio Creek</b>										
7,696.3	0.00	0.00	7,475.0	1,032.8	-1,425.9	1,757.8	3.00	-3.00	0.00	
7,700.0	0.06	215.00	7,478.7	1,032.8	-1,425.9	1,757.8	1.50	1.50	0.00	
<b>EOB @ 1.02° Inc. / 215.00° Azm</b>										
7,764.1	1.02	215.00	7,542.8	1,032.3	-1,426.3	1,757.8	1.50	1.50	0.00	
7,800.0	1.02	215.00	7,578.7	1,031.8	-1,426.6	1,757.9	0.00	0.00	0.00	
7,900.0	1.02	215.00	7,678.7	1,030.3	-1,427.6	1,757.9	0.00	0.00	0.00	
8,000.0	1.02	215.00	7,778.7	1,028.8	-1,428.7	1,758.0	0.00	0.00	0.00	
8,100.0	1.02	215.00	7,878.7	1,027.4	-1,429.7	1,758.1	0.00	0.00	0.00	
8,200.0	1.02	215.00	7,978.6	1,025.9	-1,430.7	1,758.1	0.00	0.00	0.00	
8,300.0	1.02	215.00	8,078.6	1,024.5	-1,431.7	1,758.2	0.00	0.00	0.00	
8,400.0	1.02	215.00	8,178.6	1,023.0	-1,432.7	1,758.3	0.00	0.00	0.00	

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 11A-22 197 - Slot 11A-22
<b>Company:</b>	QB Energy Operating, LLC	<b>TVD Reference:</b>	WELL @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	WELL @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 11A-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim #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)	
<b>Williams Fork</b>										
8,446.4	1.02	215.00	8,225.0	1,022.4	-1,433.2	1,758.3	0.00	0.00	0.00	
8,500.0	1.02	215.00	8,278.6	1,021.6	-1,433.8	1,758.4	0.00	0.00	0.00	
8,600.0	1.02	215.00	8,378.6	1,020.1	-1,434.8	1,758.4	0.00	0.00	0.00	
8,700.0	1.02	215.00	8,478.6	1,018.7	-1,435.8	1,758.5	0.00	0.00	0.00	
8,800.0	1.02	215.00	8,578.6	1,017.2	-1,436.8	1,758.6	0.00	0.00	0.00	
8,900.0	1.02	215.00	8,678.5	1,015.8	-1,437.8	1,758.7	0.00	0.00	0.00	
9,000.0	1.02	215.00	8,778.5	1,014.3	-1,438.8	1,758.7	0.00	0.00	0.00	
9,100.0	1.02	215.00	8,878.5	1,012.9	-1,439.9	1,758.8	0.00	0.00	0.00	
9,200.0	1.02	215.00	8,978.5	1,011.4	-1,440.9	1,758.9	0.00	0.00	0.00	
9,300.0	1.02	215.00	9,078.5	1,009.9	-1,441.9	1,758.9	0.00	0.00	0.00	
9,400.0	1.02	215.00	9,178.5	1,008.5	-1,442.9	1,759.0	0.00	0.00	0.00	
9,500.0	1.02	215.00	9,278.4	1,007.0	-1,443.9	1,759.1	0.00	0.00	0.00	
9,600.0	1.02	215.00	9,378.4	1,005.6	-1,445.0	1,759.2	0.00	0.00	0.00	
9,700.0	1.02	215.00	9,478.4	1,004.1	-1,446.0	1,759.2	0.00	0.00	0.00	
9,800.0	1.02	215.00	9,578.4	1,002.7	-1,447.0	1,759.3	0.00	0.00	0.00	
9,900.0	1.02	215.00	9,678.4	1,001.2	-1,448.0	1,759.4	0.00	0.00	0.00	
10,000.0	1.02	215.00	9,778.4	999.8	-1,449.0	1,759.5	0.00	0.00	0.00	
10,100.0	1.02	215.00	9,878.3	998.3	-1,450.1	1,759.5	0.00	0.00	0.00	
10,200.0	1.02	215.00	9,978.3	996.9	-1,451.1	1,759.6	0.00	0.00	0.00	
10,300.0	1.02	215.00	10,078.3	995.4	-1,452.1	1,759.7	0.00	0.00	0.00	
10,400.0	1.02	215.00	10,178.3	993.9	-1,453.1	1,759.7	0.00	0.00	0.00	
10,500.0	1.02	215.00	10,278.3	992.5	-1,454.1	1,759.8	0.00	0.00	0.00	
10,600.0	1.02	215.00	10,378.3	991.0	-1,455.1	1,759.9	0.00	0.00	0.00	
10,700.0	1.02	215.00	10,478.3	989.6	-1,456.2	1,760.0	0.00	0.00	0.00	
10,800.0	1.02	215.00	10,578.2	988.1	-1,457.2	1,760.0	0.00	0.00	0.00	
10,900.0	1.02	215.00	10,678.2	986.7	-1,458.2	1,760.1	0.00	0.00	0.00	
11,000.0	1.02	215.00	10,778.2	985.2	-1,459.2	1,760.2	0.00	0.00	0.00	
11,100.0	1.02	215.00	10,878.2	983.8	-1,460.2	1,760.2	0.00	0.00	0.00	
11,200.0	1.02	215.00	10,978.2	982.3	-1,461.3	1,760.3	0.00	0.00	0.00	
11,300.0	1.02	215.00	11,078.2	980.9	-1,462.3	1,760.4	0.00	0.00	0.00	
<b>Cameo</b>										
11,314.8	1.02	215.00	11,093.0	980.6	-1,462.4	1,760.4	0.00	0.00	0.00	
11,400.0	1.02	215.00	11,178.1	979.4	-1,463.3	1,760.5	0.00	0.00	0.00	
11,500.0	1.02	215.00	11,278.1	978.0	-1,464.3	1,760.5	0.00	0.00	0.00	
11,600.0	1.02	215.00	11,378.1	976.5	-1,465.3	1,760.6	0.00	0.00	0.00	
11,700.0	1.02	215.00	11,478.1	975.0	-1,466.3	1,760.7	0.00	0.00	0.00	
11,800.0	1.02	215.00	11,578.1	973.6	-1,467.4	1,760.8	0.00	0.00	0.00	
<b>Rollins</b>										
11,864.9	1.02	215.00	11,643.0	972.6	-1,468.0	1,760.8	0.00	0.00	0.00	
11,900.0	1.02	215.00	11,678.1	972.1	-1,468.4	1,760.8	0.00	0.00	0.00	
<b>Cozette</b>										
11,962.9	1.02	215.00	11,741.0	971.2	-1,469.0	1,760.9	0.00	0.00	0.00	
12,000.0	1.02	215.00	11,778.0	970.7	-1,469.4	1,760.9	0.00	0.00	0.00	
12,100.0	1.02	215.00	11,878.0	969.2	-1,470.4	1,761.0	0.00	0.00	0.00	
12,200.0	1.02	215.00	11,978.0	967.8	-1,471.4	1,761.0	0.00	0.00	0.00	
12,300.0	1.02	215.00	12,078.0	966.3	-1,472.5	1,761.1	0.00	0.00	0.00	
12,400.0	1.02	215.00	12,178.0	964.9	-1,473.5	1,761.2	0.00	0.00	0.00	
12,500.0	1.02	215.00	12,278.0	963.4	-1,474.5	1,761.3	0.00	0.00	0.00	
<b>Corcoran</b>										
12,563.0	1.02	215.00	12,341.0	962.5	-1,475.1	1,761.3	0.00	0.00	0.00	
12,600.0	1.02	215.00	12,378.0	962.0	-1,475.5	1,761.3	0.00	0.00	0.00	

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 11A-22 197 - Slot 11A-22
<b>Company:</b>	QB Energy Operating, LLC	<b>TVD Reference:</b>	WELL @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	WELL @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 11A-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim #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)	
12,700.0	1.02	215.00	12,477.9	960.5	-1,476.5	1,761.4	0.00	0.00	0.00	
12,800.0	1.02	215.00	12,577.9	959.0	-1,477.5	1,761.5	0.00	0.00	0.00	
12,900.0	1.02	215.00	12,677.9	957.6	-1,478.6	1,761.6	0.00	0.00	0.00	
13,000.0	1.02	215.00	12,777.9	956.1	-1,479.6	1,761.6	0.00	0.00	0.00	
13,100.0	1.02	215.00	12,877.9	954.7	-1,480.6	1,761.7	0.00	0.00	0.00	
13,200.0	1.02	215.00	12,977.9	953.2	-1,481.6	1,761.8	0.00	0.00	0.00	
13,300.0	1.02	215.00	13,077.8	951.8	-1,482.6	1,761.8	0.00	0.00	0.00	
<b>TD @ 13363.2' MD / 13141.0' TVD</b>										
13,363.2	1.02	215.00	13,141.0	950.9	-1,483.3	1,761.9	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	
11A-22 - OHCR - hit/miss target - Shape - Point	0.00	0.00	7,475.0	1,032.8	-1,425.9	14,517,264.63	2,404,651.83	39.943815	-108.273573	
11A-22 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 215.00 azi)	0.00	0.00	13,141.0	950.9	-1,483.3	14,517,181.00	2,404,597.00	39.943590	-108.273778	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,546.0	2,482.0	Orange Marker				
2,701.1	2,632.0	Wasatch				
5,674.0	5,508.0	Wasatch G				
6,160.8	5,979.0	Fort Union				
7,696.3	7,475.0	Ohio Creek				
8,446.4	8,225.0	Williams Fork				
11,314.8	11,093.0	Cameo				
11,864.9	11,643.0	Rollins				
11,962.9	11,741.0	Cozzette				
12,563.0	12,341.0	Corcoran				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
225.0	225.0	0.0	0.0	Build 3° / 100'	
391.7	391.5	0.0	-7.3	EOB @ 5.00° Inc. / 270.00° Azm : Build 3° / 100'	
759.6	753.9	27.7	-61.0	EOB @ 14.67° Inc. / 306.36° Azm	
7,207.3	6,991.4	995.9	-1,375.8	Drop 3° /100'	
7,696.3	7,475.0	1,032.8	-1,425.9	EOD @ Vertical : Build 1.5° / 100'	
7,764.1	7,542.8	1,032.3	-1,426.3	EOB @ 1.02° Inc. / 215.00° Azm	
13,363.2	13,141.0	950.9	-1,483.3	TD @ 13363.2' MD / 13141.0' TVD	