

Project: Rio Blanco County, CO
 Site: PCU B27 197 Pad
 Well: PCU B27 FED 25A-27 197
 Wellbore: OH
 Design: Design #1
 Latitude: 39.941228
 Longitude: -108.268609
 Ground Level: 6509.0
 RKB=26' @ 6535.0usft (Nabors B4)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2470.0	2514.8	Orange Marker
2619.0	2667.0	Wasatch
5474.0	5583.5	Wasatch G
5944.0	6963.6	Fort Union
7427.0	7572.8	Ohio Creek
8177.0	8322.9	Williams Fork
11030.0	11176.4	Cameo
11580.0	11726.5	Rollins
11686.0	11832.5	Cozzette
12761.0	12907.7	Corcoran

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well PCU B27 FED 25A-27 197 - Slot 25A-27, True North
 Vertical (TVD) Reference: RKB=26' @ 6535.0usft (Nabors B4)
 Section (VS) Reference: Slot - 25A-27(0.0N, 0.0E)
 Measured Depth Reference: RKB=26' @ 6535.0usft (Nabors B4)
 Calculation Method: Minimum Curvature

WELL DETAILS: PCU B27 FED 25A-27 197

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14516364.90	2406072.40	39.941228	-108.268609
		6509.0		25A-27	

PROJECT DETAILS: Rio Blanco County, CO

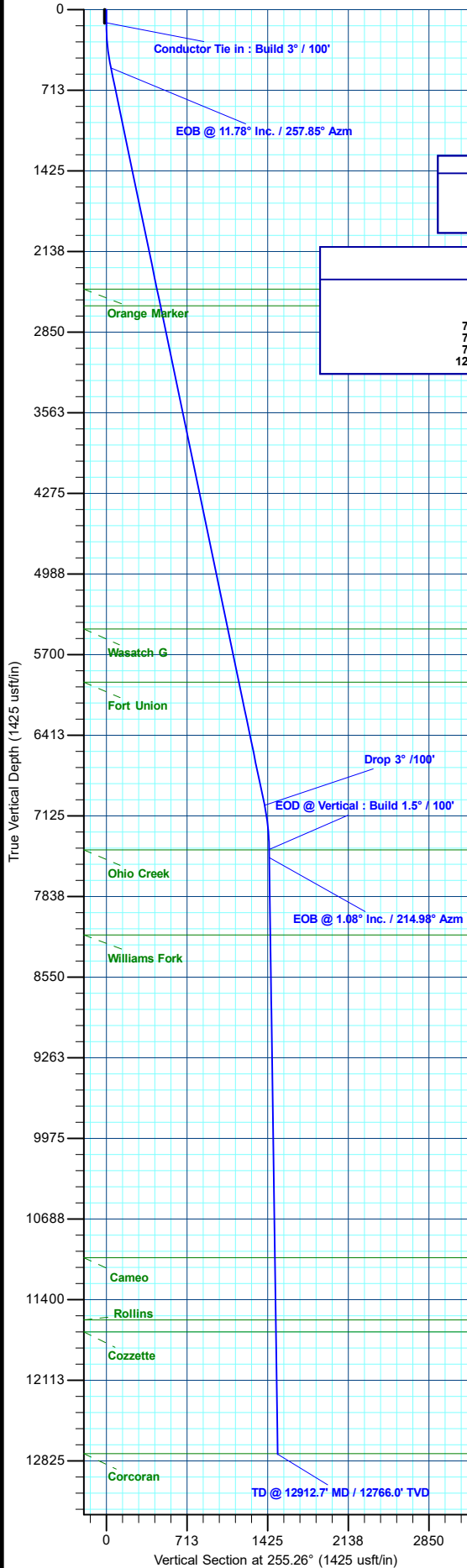
Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 System Datum: Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
25A-27 - OHCR	7422.0	-303.3	-1407.0	14516018.62	2404675.32	39.940395	-108.273625
25A-27 - PBHL	12766.0	-385.2	-1464.3	14515935.01	2404620.56	39.940170	-108.273829

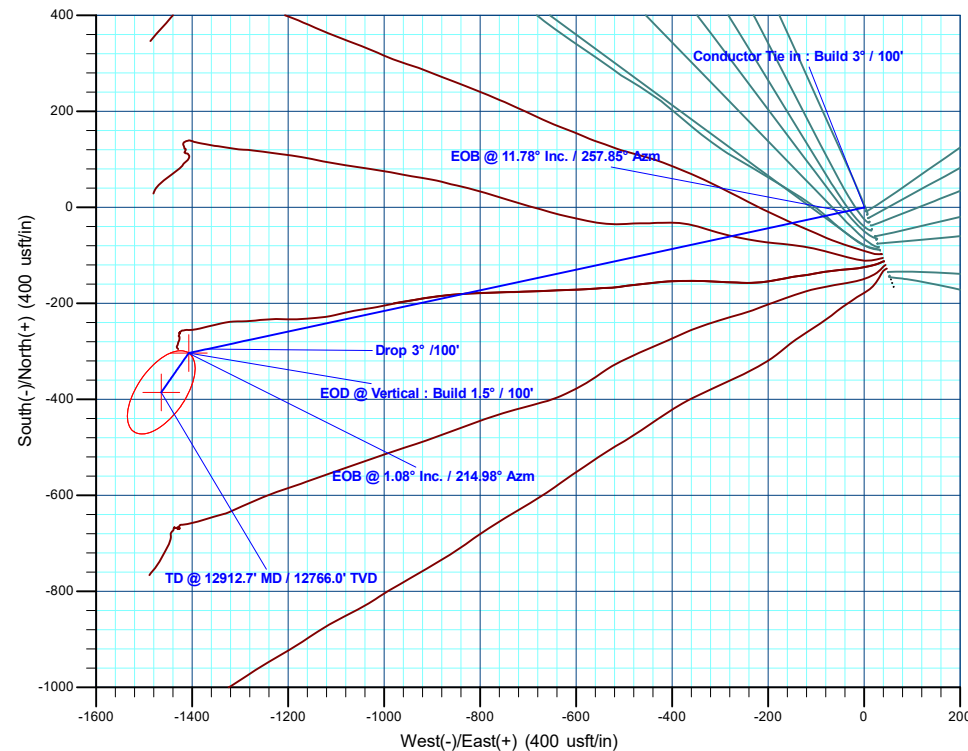
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	V Sect	Annotation
118.0	0.26	79.78	118.0	-0.4	0.4	0.00	0.00	-0.3	Conductor Tie in : Build 3' / 100'
519.5	11.78	257.85	518.7	-8.9	-38.9	3.00	178.11	39.9	EOB @ 11.78° Inc. / 257.85° Azm
7175.0	11.78	257.85	7032.0	-294.9	-1367.7	0.00	0.00	1397.7	Drop 3' / 100'
7567.8	0.00	0.00	7422.0	-303.3	-1407.0	3.00	180.00	1437.9	EOD @ Vertical : Build 1.5' / 100'
7639.7	1.08	214.98	7493.9	-303.9	-1407.4	1.50	214.98	1438.4	EOB @ 1.08° Inc. / 214.98° Azm
12912.7	1.08	214.98	12766.0	-385.2	-1464.3	0.00	0.00	1514.1	TD @ 12912.7' MD / 12766.0' TVD



T M Azimuths to True North
 Magnetic North: 9.15°

Magnetic Field
 Strength: 51080.6nT
 Dip Angle: 65.83°
 Date: 9/30/2022
 Model: HDGM2022



Plan: Design #1 (PCU B27 FED 25A-27 197/OH)

Created By: Will Jircik

Date: 13:18, September 17 2025



QB Energy Operating, LLC

Rio Blanco County, CO

PCU B27 197 Pad

PCU B27 FED 25A-27 197 - Slot 25A-27

OH

Plan: Design #1

KLX Well Planning Report

17 September, 2025



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well PCU B27 FED 25A-27 197 - Slot 25A-27
Company:	QB Energy Operating, LLC	TVD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Project:	Rio Blanco County, CO	MD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Site:	PCU B27 197 Pad	North Reference:	True
Well:	PCU B27 FED 25A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Project	Rio Blanco County, CO		
Map System:	Universal Transverse Mercator (US Survey Fee	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	PCU B27 FED 25A-27 197 - Slot 25A-27					
Well Position	+N/-S	119.9 usft	Northing:	14,516,364.90 usft	Latitude:	39.941228
	+E/-W	-44.8 usft	Easting:	2,406,072.40 usft	Longitude:	-108.268609
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	6,509.0 usft

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

Design	Design #1				
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Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	118.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	255.26	

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
118.0	0.26	79.78	118.0	-0.4	0.4	0.00	0.00	0.00	0.00	
519.5	11.78	257.85	516.7	-8.9	-38.9	3.00	2.87	44.36	178.11	
7,175.0	11.78	257.85	7,032.0	-294.9	-1,367.7	0.00	0.00	0.00	0.00	
7,567.8	0.00	0.00	7,422.0	-303.3	-1,407.0	3.00	-3.00	0.00	180.00	25A-27 - OHCR
7,639.7	1.08	214.98	7,493.9	-303.9	-1,407.4	1.50	1.50	-201.64	214.98	
12,912.7	1.08	214.98	12,766.0	-385.2	-1,464.3	0.00	0.00	0.00	0.00	25A-27 - PBHL

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well PCU B27 FED 25A-27 197 - Slot 25A-27
Company:	QB Energy Operating, LLC	TVD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Project:	Rio Blanco County, CO	MD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Site:	PCU B27 197 Pad	North Reference:	True
Well:	PCU B27 FED 25A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

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
26.0	0.00	0.00	26.0	0.0	0.0	0.0	0.00	0.00	0.00
56.0	0.61	142.18	56.0	-0.1	0.1	-0.1	2.03	2.03	0.00
86.0	0.42	132.41	86.0	-0.3	0.3	-0.2	0.70	-0.63	-32.57
Conductor Tie in : Build 3° / 100'									
118.0	0.26	79.78	118.0	-0.4	0.4	-0.3	1.04	-0.50	-164.47
200.0	2.20	257.67	200.0	-0.7	-0.9	1.1	3.00	2.37	216.94
300.0	5.20	257.80	299.8	-2.1	-7.2	7.5	3.00	3.00	0.13
400.0	8.20	257.84	399.1	-4.5	-18.6	19.2	3.00	3.00	0.03
500.0	11.20	257.85	497.6	-8.1	-35.1	36.0	3.00	3.00	0.02
EOB @ 11.78° Inc. / 257.85° Azm									
519.5	11.78	257.85	516.7	-8.9	-38.9	39.9	3.00	3.00	0.01
600.0	11.78	257.85	595.5	-12.3	-55.0	56.3	0.00	0.00	0.00
700.0	11.78	257.85	693.4	-16.6	-74.9	76.7	0.00	0.00	0.00
800.0	11.78	257.85	791.3	-20.9	-94.9	97.1	0.00	0.00	0.00
900.0	11.78	257.85	889.2	-25.2	-114.9	117.5	0.00	0.00	0.00
1,000.0	11.78	257.85	987.1	-29.5	-134.8	137.9	0.00	0.00	0.00
1,100.0	11.78	257.85	1,085.0	-33.8	-154.8	158.3	0.00	0.00	0.00
1,200.0	11.78	257.85	1,182.9	-38.1	-174.8	178.7	0.00	0.00	0.00
1,300.0	11.78	257.85	1,280.8	-42.4	-194.7	199.1	0.00	0.00	0.00
1,400.0	11.78	257.85	1,378.7	-46.7	-214.7	219.5	0.00	0.00	0.00
1,500.0	11.78	257.85	1,476.6	-51.0	-234.7	239.9	0.00	0.00	0.00
1,600.0	11.78	257.85	1,574.5	-55.3	-254.6	260.3	0.00	0.00	0.00
1,700.0	11.78	257.85	1,672.4	-59.6	-274.6	280.7	0.00	0.00	0.00
1,800.0	11.78	257.85	1,770.2	-63.9	-294.5	301.1	0.00	0.00	0.00
1,900.0	11.78	257.85	1,868.1	-68.2	-314.5	321.5	0.00	0.00	0.00
2,000.0	11.78	257.85	1,966.0	-72.5	-334.5	341.9	0.00	0.00	0.00
2,100.0	11.78	257.85	2,063.9	-76.8	-354.4	362.3	0.00	0.00	0.00
2,200.0	11.78	257.85	2,161.8	-81.1	-374.4	382.7	0.00	0.00	0.00
2,300.0	11.78	257.85	2,259.7	-85.4	-394.4	403.1	0.00	0.00	0.00
2,400.0	11.78	257.85	2,357.6	-89.7	-414.3	423.5	0.00	0.00	0.00
2,500.0	11.78	257.85	2,455.5	-94.0	-434.3	443.9	0.00	0.00	0.00
Orange Marker									
2,514.8	11.78	257.85	2,470.0	-94.6	-437.3	447.0	0.00	0.00	0.00
2,600.0	11.78	257.85	2,553.4	-98.3	-454.3	464.3	0.00	0.00	0.00
Wasatch									
2,667.0	11.78	257.85	2,619.0	-101.2	-467.7	478.0	0.00	0.00	0.00
2,700.0	11.78	257.85	2,651.3	-102.6	-474.2	484.7	0.00	0.00	0.00
2,800.0	11.78	257.85	2,749.2	-106.9	-494.2	505.1	0.00	0.00	0.00
2,900.0	11.78	257.85	2,847.1	-111.2	-514.2	525.5	0.00	0.00	0.00
3,000.0	11.78	257.85	2,945.0	-115.5	-534.1	545.9	0.00	0.00	0.00
3,100.0	11.78	257.85	3,042.8	-119.8	-554.1	566.3	0.00	0.00	0.00
3,200.0	11.78	257.85	3,140.7	-124.1	-574.1	586.7	0.00	0.00	0.00
3,300.0	11.78	257.85	3,238.6	-128.4	-594.0	607.1	0.00	0.00	0.00
3,400.0	11.78	257.85	3,336.5	-132.7	-614.0	627.5	0.00	0.00	0.00
3,500.0	11.78	257.85	3,434.4	-137.0	-634.0	647.9	0.00	0.00	0.00
3,600.0	11.78	257.85	3,532.3	-141.3	-653.9	668.3	0.00	0.00	0.00
3,700.0	11.78	257.85	3,630.2	-145.6	-673.9	688.7	0.00	0.00	0.00
3,800.0	11.78	257.85	3,728.1	-149.8	-693.9	709.1	0.00	0.00	0.00
3,900.0	11.78	257.85	3,826.0	-154.1	-713.8	729.5	0.00	0.00	0.00
4,000.0	11.78	257.85	3,923.9	-158.4	-733.8	749.9	0.00	0.00	0.00
4,100.0	11.78	257.85	4,021.8	-162.7	-753.7	770.3	0.00	0.00	0.00
4,200.0	11.78	257.85	4,119.7	-167.0	-773.7	790.7	0.00	0.00	0.00
4,300.0	11.78	257.85	4,217.6	-171.3	-793.7	811.2	0.00	0.00	0.00

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Company:	QB Energy Operating, LLC	TVD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Project:	Rio Blanco County, CO	MD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Site:	PCU B27 197 Pad	North Reference:	True
Well:	PCU B27 FED 25A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

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)
4,400.0	11.78	257.85	4,315.5	-175.6	-813.6	831.6	0.00	0.00	0.00
4,500.0	11.78	257.85	4,413.3	-179.9	-833.6	852.0	0.00	0.00	0.00
4,600.0	11.78	257.85	4,511.2	-184.2	-853.6	872.4	0.00	0.00	0.00
4,700.0	11.78	257.85	4,609.1	-188.5	-873.5	892.8	0.00	0.00	0.00
4,800.0	11.78	257.85	4,707.0	-192.8	-893.5	913.2	0.00	0.00	0.00
4,900.0	11.78	257.85	4,804.9	-197.1	-913.5	933.6	0.00	0.00	0.00
5,000.0	11.78	257.85	4,902.8	-201.4	-933.4	954.0	0.00	0.00	0.00
5,100.0	11.78	257.85	5,000.7	-205.7	-953.4	974.4	0.00	0.00	0.00
5,200.0	11.78	257.85	5,098.6	-210.0	-973.4	994.8	0.00	0.00	0.00
5,300.0	11.78	257.85	5,196.5	-214.3	-993.3	1,015.2	0.00	0.00	0.00
5,400.0	11.78	257.85	5,294.4	-218.6	-1,013.3	1,035.6	0.00	0.00	0.00
5,500.0	11.78	257.85	5,392.3	-222.9	-1,033.3	1,056.0	0.00	0.00	0.00
Wasatch G									
5,583.5	11.78	257.85	5,474.0	-226.5	-1,049.9	1,073.0	0.00	0.00	0.00
5,600.0	11.78	257.85	5,490.2	-227.2	-1,053.2	1,076.4	0.00	0.00	0.00
5,700.0	11.78	257.85	5,588.1	-231.5	-1,073.2	1,096.8	0.00	0.00	0.00
5,800.0	11.78	257.85	5,685.9	-235.8	-1,093.2	1,117.2	0.00	0.00	0.00
5,900.0	11.78	257.85	5,783.8	-240.1	-1,113.1	1,137.6	0.00	0.00	0.00
6,000.0	11.78	257.85	5,881.7	-244.4	-1,133.1	1,158.0	0.00	0.00	0.00
Fort Union									
6,063.6	11.78	257.85	5,944.0	-247.1	-1,145.8	1,171.0	0.00	0.00	0.00
6,100.0	11.78	257.85	5,979.6	-248.7	-1,153.0	1,178.4	0.00	0.00	0.00
6,200.0	11.78	257.85	6,077.5	-253.0	-1,173.0	1,198.8	0.00	0.00	0.00
6,300.0	11.78	257.85	6,175.4	-257.3	-1,193.0	1,219.2	0.00	0.00	0.00
6,400.0	11.78	257.85	6,273.3	-261.6	-1,212.9	1,239.6	0.00	0.00	0.00
6,500.0	11.78	257.85	6,371.2	-265.9	-1,232.9	1,260.0	0.00	0.00	0.00
6,600.0	11.78	257.85	6,469.1	-270.2	-1,252.9	1,280.4	0.00	0.00	0.00
6,700.0	11.78	257.85	6,567.0	-274.5	-1,272.8	1,300.8	0.00	0.00	0.00
6,800.0	11.78	257.85	6,664.9	-278.8	-1,292.8	1,321.2	0.00	0.00	0.00
6,900.0	11.78	257.85	6,762.8	-283.1	-1,312.8	1,341.6	0.00	0.00	0.00
7,000.0	11.78	257.85	6,860.7	-287.4	-1,332.7	1,362.0	0.00	0.00	0.00
7,100.0	11.78	257.85	6,958.5	-291.6	-1,352.7	1,382.4	0.00	0.00	0.00
Drop 3° /100'									
7,175.0	11.78	257.85	7,032.0	-294.9	-1,367.7	1,397.7	0.00	0.00	0.00
7,200.0	11.03	257.85	7,056.5	-295.9	-1,372.5	1,402.6	3.00	-3.00	0.00
7,300.0	8.03	257.85	7,155.1	-299.4	-1,388.7	1,419.2	3.00	-3.00	0.00
7,400.0	5.03	257.85	7,254.4	-301.8	-1,399.8	1,430.5	3.00	-3.00	0.00
7,500.0	2.03	257.85	7,354.2	-303.1	-1,405.8	1,436.7	3.00	-3.00	0.00
EOD @ Vertical : Build 1.5° / 100'									
7,567.8	0.00	0.00	7,422.0	-303.3	-1,407.0	1,437.9	3.00	-3.00	0.00
Ohio Creek									
7,572.8	0.08	214.98	7,427.0	-303.3	-1,407.0	1,437.9	1.50	1.50	0.00
7,600.0	0.48	214.98	7,454.2	-303.5	-1,407.1	1,438.0	1.50	1.50	0.00
EOB @ 1.08° Inc. / 214.98° Azm									
7,639.7	1.08	214.98	7,493.9	-303.9	-1,407.4	1,438.4	1.50	1.50	0.00
7,700.0	1.08	214.98	7,554.2	-304.8	-1,408.1	1,439.3	0.00	0.00	0.00
7,800.0	1.08	214.98	7,654.2	-306.4	-1,409.1	1,440.7	0.00	0.00	0.00
7,900.0	1.08	214.98	7,754.2	-307.9	-1,410.2	1,442.2	0.00	0.00	0.00
8,000.0	1.08	214.98	7,854.1	-309.5	-1,411.3	1,443.6	0.00	0.00	0.00
8,100.0	1.08	214.98	7,954.1	-311.0	-1,412.4	1,445.0	0.00	0.00	0.00
8,200.0	1.08	214.98	8,054.1	-312.5	-1,413.5	1,446.5	0.00	0.00	0.00
8,300.0	1.08	214.98	8,154.1	-314.1	-1,414.5	1,447.9	0.00	0.00	0.00
Williams Fork									

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well PCU B27 FED 25A-27 197 - Slot 25A-27
Company:	QB Energy Operating, LLC	TVD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Project:	Rio Blanco County, CO	MD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Site:	PCU B27 197 Pad	North Reference:	True
Well:	PCU B27 FED 25A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

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)	
8,322.9	1.08	214.98	8,177.0	-314.4	-1,414.8	1,448.2	0.00	0.00	0.00	
8,400.0	1.08	214.98	8,254.1	-315.6	-1,415.6	1,449.3	0.00	0.00	0.00	
8,500.0	1.08	214.98	8,354.0	-317.2	-1,416.7	1,450.8	0.00	0.00	0.00	
8,600.0	1.08	214.98	8,454.0	-318.7	-1,417.8	1,452.2	0.00	0.00	0.00	
8,700.0	1.08	214.98	8,554.0	-320.3	-1,418.9	1,453.6	0.00	0.00	0.00	
8,800.0	1.08	214.98	8,654.0	-321.8	-1,419.9	1,455.1	0.00	0.00	0.00	
8,900.0	1.08	214.98	8,754.0	-323.3	-1,421.0	1,456.5	0.00	0.00	0.00	
9,000.0	1.08	214.98	8,854.0	-324.9	-1,422.1	1,458.0	0.00	0.00	0.00	
9,100.0	1.08	214.98	8,953.9	-326.4	-1,423.2	1,459.4	0.00	0.00	0.00	
9,200.0	1.08	214.98	9,053.9	-328.0	-1,424.3	1,460.8	0.00	0.00	0.00	
9,300.0	1.08	214.98	9,153.9	-329.5	-1,425.3	1,462.3	0.00	0.00	0.00	
9,400.0	1.08	214.98	9,253.9	-331.1	-1,426.4	1,463.7	0.00	0.00	0.00	
9,500.0	1.08	214.98	9,353.9	-332.6	-1,427.5	1,465.1	0.00	0.00	0.00	
9,600.0	1.08	214.98	9,453.9	-334.1	-1,428.6	1,466.6	0.00	0.00	0.00	
9,700.0	1.08	214.98	9,553.8	-335.7	-1,429.6	1,468.0	0.00	0.00	0.00	
9,800.0	1.08	214.98	9,653.8	-337.2	-1,430.7	1,469.4	0.00	0.00	0.00	
9,900.0	1.08	214.98	9,753.8	-338.8	-1,431.8	1,470.9	0.00	0.00	0.00	
10,000.0	1.08	214.98	9,853.8	-340.3	-1,432.9	1,472.3	0.00	0.00	0.00	
10,100.0	1.08	214.98	9,953.8	-341.8	-1,434.0	1,473.8	0.00	0.00	0.00	
10,200.0	1.08	214.98	10,053.7	-343.4	-1,435.0	1,475.2	0.00	0.00	0.00	
10,300.0	1.08	214.98	10,153.7	-344.9	-1,436.1	1,476.6	0.00	0.00	0.00	
10,400.0	1.08	214.98	10,253.7	-346.5	-1,437.2	1,478.1	0.00	0.00	0.00	
10,500.0	1.08	214.98	10,353.7	-348.0	-1,438.3	1,479.5	0.00	0.00	0.00	
10,600.0	1.08	214.98	10,453.7	-349.6	-1,439.4	1,480.9	0.00	0.00	0.00	
10,700.0	1.08	214.98	10,553.7	-351.1	-1,440.4	1,482.4	0.00	0.00	0.00	
10,800.0	1.08	214.98	10,653.6	-352.6	-1,441.5	1,483.8	0.00	0.00	0.00	
10,900.0	1.08	214.98	10,753.6	-354.2	-1,442.6	1,485.2	0.00	0.00	0.00	
11,000.0	1.08	214.98	10,853.6	-355.7	-1,443.7	1,486.7	0.00	0.00	0.00	
11,100.0	1.08	214.98	10,953.6	-357.3	-1,444.8	1,488.1	0.00	0.00	0.00	
Cameo										
11,176.4	1.08	214.98	11,030.0	-358.5	-1,445.6	1,489.2	0.00	0.00	0.00	
11,200.0	1.08	214.98	11,053.6	-358.8	-1,445.8	1,489.6	0.00	0.00	0.00	
11,300.0	1.08	214.98	11,153.5	-360.4	-1,446.9	1,491.0	0.00	0.00	0.00	
11,400.0	1.08	214.98	11,253.5	-361.9	-1,448.0	1,492.4	0.00	0.00	0.00	
11,500.0	1.08	214.98	11,353.5	-363.4	-1,449.1	1,493.9	0.00	0.00	0.00	
11,600.0	1.08	214.98	11,453.5	-365.0	-1,450.2	1,495.3	0.00	0.00	0.00	
11,700.0	1.08	214.98	11,553.5	-366.5	-1,451.2	1,496.7	0.00	0.00	0.00	
Rollins										
11,726.5	1.08	214.98	11,580.0	-366.9	-1,451.5	1,497.1	0.00	0.00	0.00	
11,800.0	1.08	214.98	11,653.5	-368.1	-1,452.3	1,498.2	0.00	0.00	0.00	
Cozette										
11,832.5	1.08	214.98	11,686.0	-368.6	-1,452.7	1,498.6	0.00	0.00	0.00	
11,900.0	1.08	214.98	11,753.4	-369.6	-1,453.4	1,499.6	0.00	0.00	0.00	
12,000.0	1.08	214.98	11,853.4	-371.2	-1,454.5	1,501.0	0.00	0.00	0.00	
12,100.0	1.08	214.98	11,953.4	-372.7	-1,455.6	1,502.5	0.00	0.00	0.00	
12,200.0	1.08	214.98	12,053.4	-374.2	-1,456.6	1,503.9	0.00	0.00	0.00	
12,300.0	1.08	214.98	12,153.4	-375.8	-1,457.7	1,505.3	0.00	0.00	0.00	
12,400.0	1.08	214.98	12,253.4	-377.3	-1,458.8	1,506.8	0.00	0.00	0.00	
12,500.0	1.08	214.98	12,353.3	-378.9	-1,459.9	1,508.2	0.00	0.00	0.00	
12,600.0	1.08	214.98	12,453.3	-380.4	-1,460.9	1,509.7	0.00	0.00	0.00	
12,700.0	1.08	214.98	12,553.3	-382.0	-1,462.0	1,511.1	0.00	0.00	0.00	
12,800.0	1.08	214.98	12,653.3	-383.5	-1,463.1	1,512.5	0.00	0.00	0.00	
12,900.0	1.08	214.98	12,753.3	-385.0	-1,464.2	1,514.0	0.00	0.00	0.00	

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well PCU B27 FED 25A-27 197 - Slot 25A-27
Company:	QB Energy Operating, LLC	TVD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Project:	Rio Blanco County, CO	MD Reference:	RKB=26' @ 6535.0usft (Nabors B4)
Site:	PCU B27 197 Pad	North Reference:	True
Well:	PCU B27 FED 25A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

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)
Corcoran									
12,907.7	1.08	214.98	12,761.0	-385.2	-1,464.3	1,514.1	0.00	0.00	0.00
TD @ 12912.7' MD / 12766.0' TVD									
12,912.7	1.08	214.98	12,766.0	-385.2	-1,464.3	1,514.1	0.00	0.00	0.00

Design Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
25A-27 - OHCR		0.00	0.00	7,422.0	-303.3	-1,407.0	14,516,018.63	2,404,675.33	39.940395	-108.273625
- plan hits target center										
- Point										
25A-27 - PBHL		0.00	0.00	12,766.0	-385.2	-1,464.3	14,515,935.01	2,404,620.56	39.940170	-108.273830
- plan hits target center										
- Ellipse (radii L100.0 W50.0 on 215.00 azi)										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,514.8	2,470.0	Orange Marker				
2,667.0	2,619.0	Wasatch				
5,583.5	5,474.0	Wasatch G				
6,063.6	5,944.0	Fort Union				
7,572.8	7,427.0	Ohio Creek				
8,322.9	8,177.0	Williams Fork				
11,176.4	11,030.0	Cameo				
11,726.5	11,580.0	Rollins				
11,832.5	11,686.0	Cozzette				
12,907.7	12,761.0	Corcoran				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
118.0	118.0	-0.4	0.4	Conductor Tie in : Build 3° / 100'
519.5	516.7	-8.9	-38.9	EOB @ 11.78° Inc. / 257.85° Azm
7,175.0	7,032.0	-294.9	-1,367.7	Drop 3° / 100'
7,567.8	7,422.0	-303.3	-1,407.0	EOD @ Vertical : Build 1.5° / 100'
7,639.7	7,493.9	-303.9	-1,407.4	EOB @ 1.08° Inc. / 214.98° Azm
12,912.7	12,766.0	-385.2	-1,464.3	TD @ 12912.7' MD / 12766.0' TVD