

Project: Rio Blanco County, CO
 Site: PCU B27 197 Pad
 Well: RNPU B27 FED 21A-27 197
 Wellbore: OH
 Design: Prelim #1
 Latitude: 39.941063
 Longitude: -108.268529
 Ground Level: 6510.0
 RKB @ 6540.0usft (30')

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
2458.0	2520.1	ORANGE_MARKER	
2604.0	2671.7	WASATCH	
5551.0	5732.4	WASATCH_G_ZONE	
6028.0	6227.8	FORT_UNION	
7536.0	7780.5	OHIO_CREEK	
8286.0	8530.6	WILLIAMS_FORK	
11253.0	11478.1	CAMEO	
11783.0	12028.1	ROLLINS	
11878.0	12123.2	COZZETTE	
12478.0	12723.2	Corcoran	

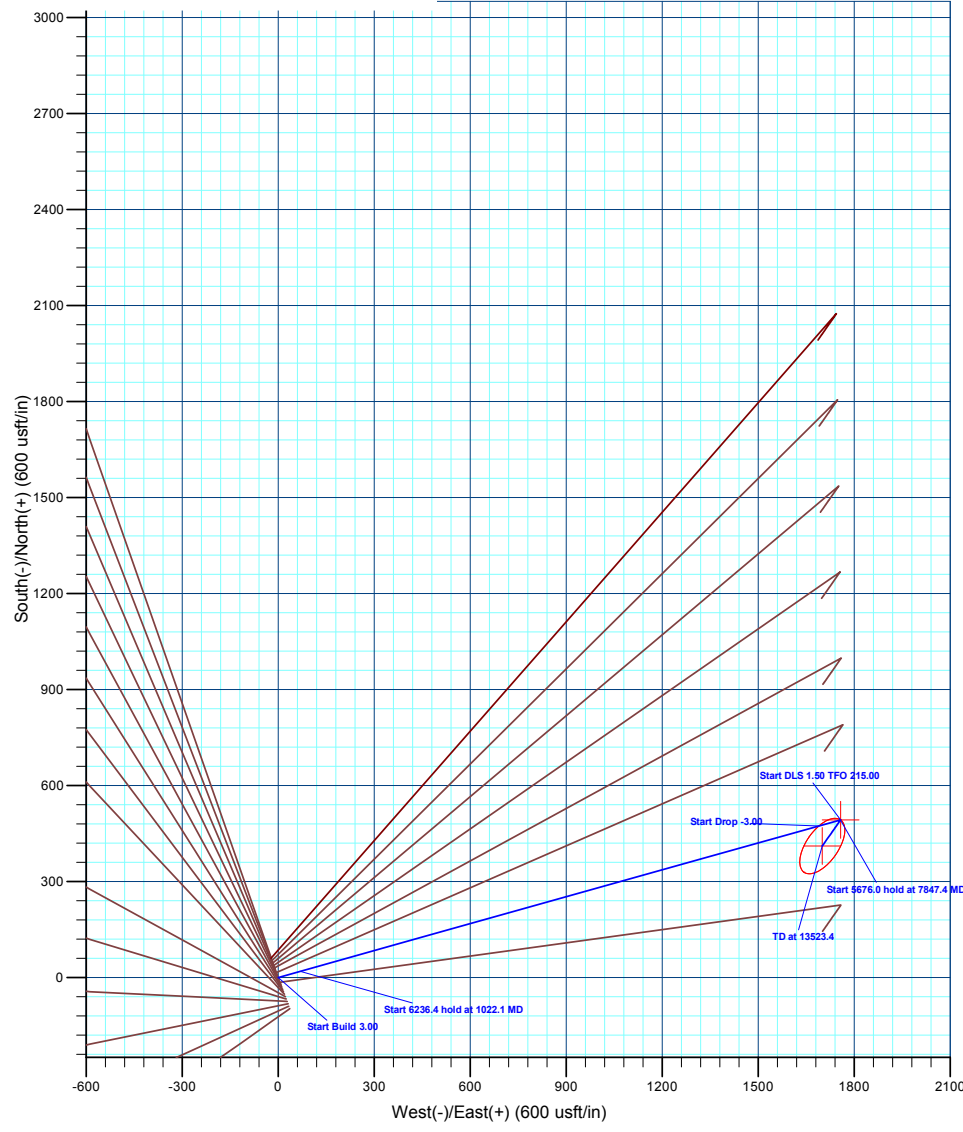
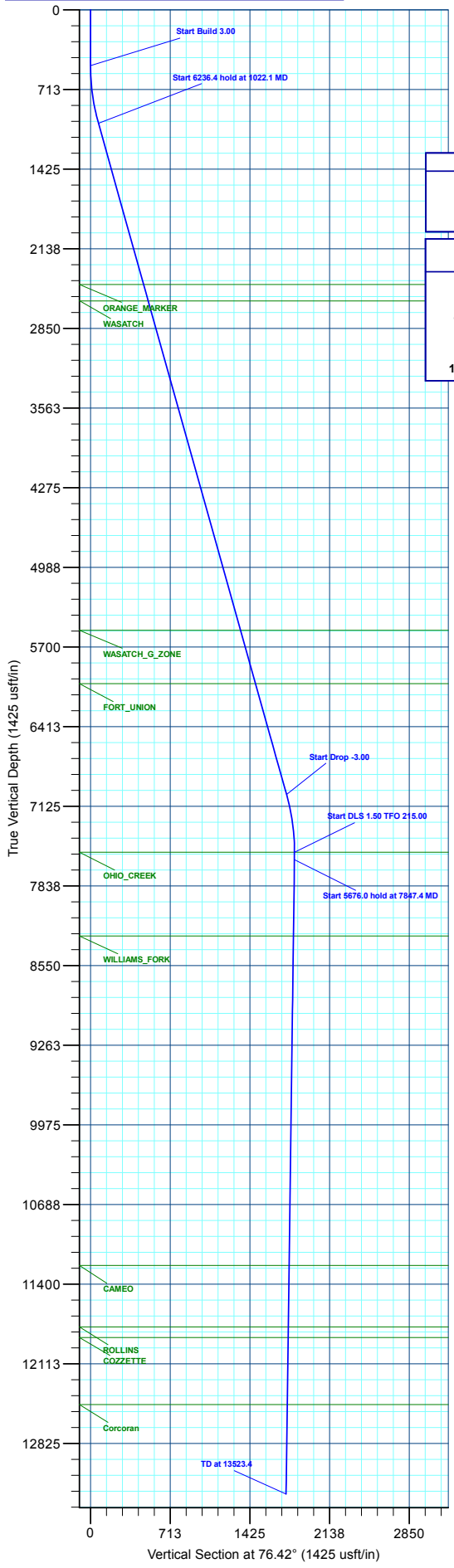
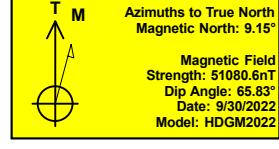
REFERENCE INFORMATION	
Co-ordinate (N/E) Reference:	Well RNPU B27 FED 21A-27 197 - Slot 21A-27, True North
Vertical (TVD) Reference:	RKB @ 6540.0usft (30')
Section (VS) Reference:	Slot - 21A-27(0.0N, 0.0E)
Measured Depth Reference:	RKB @ 6540.0usft (30')
Calculation Method:	Minimum Curvature

WELL DETAILS: RNPU B27 FED 21A-27 197					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14516305.60	6510.0 2406096.60	39.941063	-108.268529 21A-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
21A-27 - OHCR	7536.0	492.6	1757.6	14516851.83	2407838.33	39.942415	-108.262262
21A-27 - PBLH	13278.0	410.7	1700.3	14516768.20	2407783.50	39.942190	-108.262467

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	Start Build 3.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Start 6236.4 hold at 1022.1 MD	
1022.1	15.66	74.34	1015.6	19.1	68.3	3.00	74.34	70.9	Start Drop -3.00	
7258.4	0.00	0.00	7020.4	473.5	1689.4	0.00	0.00	1753.3	Start DLS 1.50 TFO 215.00	
7780.5	15.66	0.00	7536.0	492.6	1757.6	3.00	180.00	1824.2	Start 5676.0 hold at 7847.4 MD	
7847.4	1.00	215.00	7602.9	492.2	1757.3	1.50	215.00	1823.7	TD at 13523.4	
13523.4	1.00	215.00	13278.0	410.7	1700.3	0.00	0.00	1749.2		



Plan: Prelim #1 (RNPU B27 FED 21A-27 197/OH)
 Created By: Will Jircik Date: 1:36, November 02 2022



Caerus Oil & Gas

Rio Blanco County, CO

PCU B27 197 Pad

RNPU B27 FED 21A-27 197 - Slot 21A-27

OH

Plan: Prelim #1

KLX Well Planning Report

02 November, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RNPU B27 FED 21A-27 197 - Slot 21A-27
Company:	Caerus Oil & Gas	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 21A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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:	14,516,246.40 usft	Latitude:	39.940899
From:	Map	Easting:	2,406,120.80 usft	Longitude:	-108.268449
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.75 °

Well	RNPU B27 FED 21A-27 197 - Slot 21A-27					
Well Position	+N/-S	59.9 usft	Northing:	14,516,305.60 usft	Latitude:	39.941063
	+E/-W	-22.4 usft	Easting:	2,406,096.60 usft	Longitude:	-108.268529
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 #1				
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	76.42	

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,022.1	15.66	74.34	1,015.6	19.1	68.3	3.00	3.00	0.00	74.34	
7,258.4	15.66	74.34	7,020.4	473.5	1,689.4	0.00	0.00	0.00	0.00	
7,780.5	0.00	0.00	7,536.0	492.6	1,757.6	3.00	-3.00	0.00	180.00	21A-27 - OHCR
7,847.4	1.00	215.00	7,602.9	492.2	1,757.3	1.50	1.50	-216.72	215.00	
13,523.4	1.00	215.00	13,278.0	410.7	1,700.3	0.00	0.00	0.00	0.00	21A-27 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RNPU B27 FED 21A-27 197 - Slot 21A-27
Company:	Caerus Oil & Gas	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 21A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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
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
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 3.00									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	3.00	74.34	600.0	0.7	2.5	2.6	3.00	3.00	0.00
700.0	6.00	74.34	699.6	2.8	10.1	10.5	3.00	3.00	0.00
800.0	9.00	74.34	798.8	6.3	22.6	23.5	3.00	3.00	0.00
900.0	12.00	74.34	897.1	11.3	40.2	41.7	3.00	3.00	0.00
1,000.0	15.00	74.34	994.3	17.6	62.7	65.0	3.00	3.00	0.00
Start 6236.4 hold at 1022.1 MD									
1,022.1	15.66	74.34	1,015.6	19.1	68.3	70.9	3.00	3.00	0.00
1,100.0	15.66	74.34	1,090.6	24.8	88.5	91.9	0.00	0.00	0.00
1,200.0	15.66	74.34	1,186.9	32.1	114.5	118.9	0.00	0.00	0.00
1,300.0	15.66	74.34	1,283.2	39.4	140.5	145.8	0.00	0.00	0.00
1,400.0	15.66	74.34	1,379.5	46.7	166.5	172.8	0.00	0.00	0.00
1,500.0	15.66	74.34	1,475.8	54.0	192.5	199.8	0.00	0.00	0.00
1,600.0	15.66	74.34	1,572.1	61.2	218.5	226.8	0.00	0.00	0.00
1,700.0	15.66	74.34	1,668.4	68.5	244.5	253.8	0.00	0.00	0.00
1,800.0	15.66	74.34	1,764.6	75.8	270.5	280.7	0.00	0.00	0.00
1,900.0	15.66	74.34	1,860.9	83.1	296.5	307.7	0.00	0.00	0.00
2,000.0	15.66	74.34	1,957.2	90.4	322.5	334.7	0.00	0.00	0.00
2,100.0	15.66	74.34	2,053.5	97.7	348.5	361.7	0.00	0.00	0.00
2,200.0	15.66	74.34	2,149.8	105.0	374.5	388.6	0.00	0.00	0.00
2,300.0	15.66	74.34	2,246.1	112.2	400.5	415.6	0.00	0.00	0.00
2,400.0	15.66	74.34	2,342.4	119.5	426.5	442.6	0.00	0.00	0.00
2,500.0	15.66	74.34	2,438.7	126.8	452.5	469.6	0.00	0.00	0.00
ORANGE_MARKER									
2,520.1	15.66	74.34	2,458.0	128.3	457.7	475.0	0.00	0.00	0.00
2,600.0	15.66	74.34	2,534.9	134.1	478.4	496.6	0.00	0.00	0.00
WASATCH									
2,671.7	15.66	74.34	2,604.0	139.3	497.1	515.9	0.00	0.00	0.00
2,700.0	15.66	74.34	2,631.2	141.4	504.4	523.5	0.00	0.00	0.00
2,800.0	15.66	74.34	2,727.5	148.7	530.4	550.5	0.00	0.00	0.00
2,900.0	15.66	74.34	2,823.8	156.0	556.4	577.5	0.00	0.00	0.00
3,000.0	15.66	74.34	2,920.1	163.2	582.4	604.5	0.00	0.00	0.00
3,100.0	15.66	74.34	3,016.4	170.5	608.4	631.4	0.00	0.00	0.00
3,200.0	15.66	74.34	3,112.7	177.8	634.4	658.4	0.00	0.00	0.00
3,300.0	15.66	74.34	3,208.9	185.1	660.4	685.4	0.00	0.00	0.00
3,400.0	15.66	74.34	3,305.2	192.4	686.4	712.4	0.00	0.00	0.00
3,500.0	15.66	74.34	3,401.5	199.7	712.4	739.4	0.00	0.00	0.00
3,600.0	15.66	74.34	3,497.8	207.0	738.4	766.3	0.00	0.00	0.00
3,700.0	15.66	74.34	3,594.1	214.2	764.4	793.3	0.00	0.00	0.00
3,800.0	15.66	74.34	3,690.4	221.5	790.4	820.3	0.00	0.00	0.00
3,900.0	15.66	74.34	3,786.7	228.8	816.4	847.3	0.00	0.00	0.00
4,000.0	15.66	74.34	3,883.0	236.1	842.4	874.3	0.00	0.00	0.00
4,100.0	15.66	74.34	3,979.2	243.4	868.4	901.2	0.00	0.00	0.00
4,200.0	15.66	74.34	4,075.5	250.7	894.4	928.2	0.00	0.00	0.00
4,300.0	15.66	74.34	4,171.8	258.0	920.3	955.2	0.00	0.00	0.00
4,400.0	15.66	74.34	4,268.1	265.2	946.3	982.2	0.00	0.00	0.00
4,500.0	15.66	74.34	4,364.4	272.5	972.3	1,009.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RNPU B27 FED 21A-27 197 - Slot 21A-27
Company:	Caerus Oil & Gas	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 21A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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)	
4,600.0	15.66	74.34	4,460.7	279.8	998.3	1,036.1	0.00	0.00	0.00	
4,700.0	15.66	74.34	4,557.0	287.1	1,024.3	1,063.1	0.00	0.00	0.00	
4,800.0	15.66	74.34	4,653.3	294.4	1,050.3	1,090.1	0.00	0.00	0.00	
4,900.0	15.66	74.34	4,749.5	301.7	1,076.3	1,117.1	0.00	0.00	0.00	
5,000.0	15.66	74.34	4,845.8	309.0	1,102.3	1,144.0	0.00	0.00	0.00	
5,100.0	15.66	74.34	4,942.1	316.2	1,128.3	1,171.0	0.00	0.00	0.00	
5,200.0	15.66	74.34	5,038.4	323.5	1,154.3	1,198.0	0.00	0.00	0.00	
5,300.0	15.66	74.34	5,134.7	330.8	1,180.3	1,225.0	0.00	0.00	0.00	
5,400.0	15.66	74.34	5,231.0	338.1	1,206.3	1,251.9	0.00	0.00	0.00	
5,500.0	15.66	74.34	5,327.3	345.4	1,232.3	1,278.9	0.00	0.00	0.00	
5,600.0	15.66	74.34	5,423.6	352.7	1,258.3	1,305.9	0.00	0.00	0.00	
5,700.0	15.66	74.34	5,519.8	360.0	1,284.3	1,332.9	0.00	0.00	0.00	
WASATCH_G_ZONE										
5,732.4	15.66	74.34	5,551.0	362.3	1,292.7	1,341.6	0.00	0.00	0.00	
5,800.0	15.66	74.34	5,616.1	367.3	1,310.3	1,359.9	0.00	0.00	0.00	
5,900.0	15.66	74.34	5,712.4	374.5	1,336.2	1,386.8	0.00	0.00	0.00	
6,000.0	15.66	74.34	5,808.7	381.8	1,362.2	1,413.8	0.00	0.00	0.00	
6,100.0	15.66	74.34	5,905.0	389.1	1,388.2	1,440.8	0.00	0.00	0.00	
6,200.0	15.66	74.34	6,001.3	396.4	1,414.2	1,467.8	0.00	0.00	0.00	
FORT_UNION										
6,227.8	15.66	74.34	6,028.0	398.4	1,421.4	1,475.3	0.00	0.00	0.00	
6,300.0	15.66	74.34	6,097.6	403.7	1,440.2	1,494.7	0.00	0.00	0.00	
6,400.0	15.66	74.34	6,193.9	411.0	1,466.2	1,521.7	0.00	0.00	0.00	
6,500.0	15.66	74.34	6,290.1	418.3	1,492.2	1,548.7	0.00	0.00	0.00	
6,600.0	15.66	74.34	6,386.4	425.5	1,518.2	1,575.7	0.00	0.00	0.00	
6,700.0	15.66	74.34	6,482.7	432.8	1,544.2	1,602.7	0.00	0.00	0.00	
6,800.0	15.66	74.34	6,579.0	440.1	1,570.2	1,629.6	0.00	0.00	0.00	
6,900.0	15.66	74.34	6,675.3	447.4	1,596.2	1,656.6	0.00	0.00	0.00	
7,000.0	15.66	74.34	6,771.6	454.7	1,622.2	1,683.6	0.00	0.00	0.00	
7,100.0	15.66	74.34	6,867.9	462.0	1,648.2	1,710.6	0.00	0.00	0.00	
7,200.0	15.66	74.34	6,964.2	469.3	1,674.2	1,737.5	0.00	0.00	0.00	
Start Drop -3.00										
7,258.4	15.66	74.34	7,020.4	473.5	1,689.4	1,753.3	0.00	0.00	0.00	
7,300.0	14.41	74.34	7,060.6	476.4	1,699.7	1,764.1	3.00	-3.00	0.00	
7,400.0	11.41	74.34	7,158.0	482.5	1,721.3	1,786.4	3.00	-3.00	0.00	
7,500.0	8.41	74.34	7,256.5	487.1	1,737.8	1,803.6	3.00	-3.00	0.00	
7,600.0	5.41	74.34	7,355.8	490.3	1,749.4	1,815.7	3.00	-3.00	0.00	
7,700.0	2.41	74.34	7,455.5	492.2	1,756.0	1,822.5	3.00	-3.00	0.00	
Start DLS 1.50 TFO 215.00 - OHIO_CREEK										
7,780.5	0.00	0.00	7,536.0	492.6	1,757.6	1,824.2	3.00	-3.00	0.00	
7,800.0	0.29	215.00	7,555.5	492.6	1,757.6	1,824.1	1.50	1.50	0.00	
Start 5676.0 hold at 7847.4 MD										
7,847.4	1.00	215.00	7,602.9	492.2	1,757.3	1,823.7	1.50	1.50	0.00	
7,900.0	1.00	215.00	7,655.5	491.4	1,756.8	1,823.0	0.00	0.00	0.00	
8,000.0	1.00	215.00	7,755.5	490.0	1,755.8	1,821.7	0.00	0.00	0.00	
8,100.0	1.00	215.00	7,855.5	488.5	1,754.8	1,820.4	0.00	0.00	0.00	
8,200.0	1.00	215.00	7,955.4	487.1	1,753.8	1,819.1	0.00	0.00	0.00	
8,300.0	1.00	215.00	8,055.4	485.7	1,752.8	1,817.8	0.00	0.00	0.00	
8,400.0	1.00	215.00	8,155.4	484.2	1,751.7	1,816.5	0.00	0.00	0.00	
8,500.0	1.00	215.00	8,255.4	482.8	1,750.7	1,815.2	0.00	0.00	0.00	
WILLIAMS_FORK										
8,530.6	1.00	215.00	8,286.0	482.4	1,750.4	1,814.8	0.00	0.00	0.00	

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Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6540.0usft (30')
Site:	PCU B27 197 Pad	North Reference:	True
Well:	RNPU B27 FED 21A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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)	
8,600.0	1.00	215.00	8,355.4	481.4	1,749.7	1,813.8	0.00	0.00	0.00	
8,700.0	1.00	215.00	8,455.4	479.9	1,748.7	1,812.5	0.00	0.00	0.00	
8,800.0	1.00	215.00	8,555.4	478.5	1,747.7	1,811.2	0.00	0.00	0.00	
8,900.0	1.00	215.00	8,655.3	477.1	1,746.7	1,809.9	0.00	0.00	0.00	
9,000.0	1.00	215.00	8,755.3	475.6	1,745.7	1,808.6	0.00	0.00	0.00	
9,100.0	1.00	215.00	8,855.3	474.2	1,744.7	1,807.3	0.00	0.00	0.00	
9,200.0	1.00	215.00	8,955.3	472.8	1,743.7	1,806.0	0.00	0.00	0.00	
9,300.0	1.00	215.00	9,055.3	471.3	1,742.7	1,804.7	0.00	0.00	0.00	
9,400.0	1.00	215.00	9,155.3	469.9	1,741.7	1,803.3	0.00	0.00	0.00	
9,500.0	1.00	215.00	9,255.2	468.5	1,740.7	1,802.0	0.00	0.00	0.00	
9,600.0	1.00	215.00	9,355.2	467.0	1,739.7	1,800.7	0.00	0.00	0.00	
9,700.0	1.00	215.00	9,455.2	465.6	1,738.7	1,799.4	0.00	0.00	0.00	
9,800.0	1.00	215.00	9,555.2	464.2	1,737.7	1,798.1	0.00	0.00	0.00	
9,900.0	1.00	215.00	9,655.2	462.7	1,736.7	1,796.8	0.00	0.00	0.00	
10,000.0	1.00	215.00	9,755.2	461.3	1,735.7	1,795.5	0.00	0.00	0.00	
10,100.0	1.00	215.00	9,855.2	459.8	1,734.7	1,794.1	0.00	0.00	0.00	
10,200.0	1.00	215.00	9,955.1	458.4	1,733.7	1,792.8	0.00	0.00	0.00	
10,300.0	1.00	215.00	10,055.1	457.0	1,732.7	1,791.5	0.00	0.00	0.00	
10,400.0	1.00	215.00	10,155.1	455.5	1,731.7	1,790.2	0.00	0.00	0.00	
10,500.0	1.00	215.00	10,255.1	454.1	1,730.6	1,788.9	0.00	0.00	0.00	
10,600.0	1.00	215.00	10,355.1	452.7	1,729.6	1,787.6	0.00	0.00	0.00	
10,700.0	1.00	215.00	10,455.1	451.2	1,728.6	1,786.3	0.00	0.00	0.00	
10,800.0	1.00	215.00	10,555.0	449.8	1,727.6	1,785.0	0.00	0.00	0.00	
10,900.0	1.00	215.00	10,655.0	448.4	1,726.6	1,783.6	0.00	0.00	0.00	
11,000.0	1.00	215.00	10,755.0	446.9	1,725.6	1,782.3	0.00	0.00	0.00	
11,100.0	1.00	215.00	10,855.0	445.5	1,724.6	1,781.0	0.00	0.00	0.00	
11,200.0	1.00	215.00	10,955.0	444.1	1,723.6	1,779.7	0.00	0.00	0.00	
11,300.0	1.00	215.00	11,055.0	442.6	1,722.6	1,778.4	0.00	0.00	0.00	
11,400.0	1.00	215.00	11,155.0	441.2	1,721.6	1,777.1	0.00	0.00	0.00	
CAMEO										
11,478.1	1.00	215.00	11,233.0	440.1	1,720.8	1,776.0	0.00	0.00	0.00	
11,500.0	1.00	215.00	11,254.9	439.8	1,720.6	1,775.8	0.00	0.00	0.00	
11,600.0	1.00	215.00	11,354.9	438.3	1,719.6	1,774.4	0.00	0.00	0.00	
11,700.0	1.00	215.00	11,454.9	436.9	1,718.6	1,773.1	0.00	0.00	0.00	
11,800.0	1.00	215.00	11,554.9	435.5	1,717.6	1,771.8	0.00	0.00	0.00	
11,900.0	1.00	215.00	11,654.9	434.0	1,716.6	1,770.5	0.00	0.00	0.00	
12,000.0	1.00	215.00	11,754.9	432.6	1,715.6	1,769.2	0.00	0.00	0.00	
ROLLINS										
12,028.1	1.00	215.00	11,783.0	432.2	1,715.3	1,768.8	0.00	0.00	0.00	
12,100.0	1.00	215.00	11,854.8	431.2	1,714.6	1,767.9	0.00	0.00	0.00	
COZZETTE										
12,123.2	1.00	215.00	11,878.0	430.8	1,714.3	1,767.6	0.00	0.00	0.00	
12,200.0	1.00	215.00	11,954.8	429.7	1,713.6	1,766.6	0.00	0.00	0.00	
12,300.0	1.00	215.00	12,054.8	428.3	1,712.6	1,765.2	0.00	0.00	0.00	
12,400.0	1.00	215.00	12,154.8	426.9	1,711.6	1,763.9	0.00	0.00	0.00	
12,500.0	1.00	215.00	12,254.8	425.4	1,710.6	1,762.6	0.00	0.00	0.00	
12,600.0	1.00	215.00	12,354.8	424.0	1,709.5	1,761.3	0.00	0.00	0.00	
12,700.0	1.00	215.00	12,454.8	422.5	1,708.5	1,760.0	0.00	0.00	0.00	
Corcoran										
12,723.2	1.00	215.00	12,478.0	422.2	1,708.3	1,759.7	0.00	0.00	0.00	
12,800.0	1.00	215.00	12,554.7	421.1	1,707.5	1,758.7	0.00	0.00	0.00	
12,900.0	1.00	215.00	12,654.7	419.7	1,706.5	1,757.4	0.00	0.00	0.00	
13,000.0	1.00	215.00	12,754.7	418.2	1,705.5	1,756.1	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RNPU B27 FED 21A-27 197 - Slot 21A-27
Company:	Caerus Oil & Gas	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 21A-27 197	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim #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)	
13,100.0	1.00	215.00	12,854.7	416.8	1,704.5	1,754.7	0.00	0.00	0.00	
13,200.0	1.00	215.00	12,954.7	415.4	1,703.5	1,753.4	0.00	0.00	0.00	
13,300.0	1.00	215.00	13,054.7	413.9	1,702.5	1,752.1	0.00	0.00	0.00	
13,400.0	1.00	215.00	13,154.6	412.5	1,701.5	1,750.8	0.00	0.00	0.00	
13,500.0	1.00	215.00	13,254.6	411.1	1,700.5	1,749.5	0.00	0.00	0.00	
TD at 13523.4										
13,523.4	1.00	215.00	13,278.0	410.7	1,700.3	1,749.2	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	
21A-27 - OHCR - hit/miss target - Shape - Point	0.00	0.00	7,536.0	492.6	1,757.6	14,516,851.83	2,407,838.33	39.942415	-108.262263	
21A-27 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 215.00 azi)	0.00	0.00	13,278.0	410.7	1,700.3	14,516,768.20	2,407,783.50	39.942190	-108.262467	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,520.1	2,458.0	ORANGE_MARKER				
2,671.7	2,604.0	WASATCH				
5,732.4	5,551.0	WASATCH_G_ZONE				
6,227.8	6,028.0	FORT_UNION				
7,780.5	7,536.0	OHIO_CREEK				
8,530.6	8,286.0	WILLIAMS_FORK				
11,478.1	11,233.0	CAMEO				
12,028.1	11,783.0	ROLLINS				
12,123.2	11,878.0	COZZETTE				
12,723.2	12,478.0	Corcoran				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
500.0	500.0	0.0	0.0	Start Build 3.00	
1,022.1	1,015.6	19.1	68.3	Start 6236.4 hold at 1022.1 MD	
7,258.4	7,020.4	473.5	1,689.4	Start Drop -3.00	
7,780.5	7,536.0	492.6	1,757.6	Start DLS 1.50 TFO 215.00	
7,847.4	7,602.9	492.2	1,757.3	Start 5676.0 hold at 7847.4 MD	
13,523.4	13,278.0	410.7	1,700.3	TD at 13523.4	