

Project: Rio Blanco County, CO  
 Site: PCU B27 197 Pad  
 Well: RNPU B27 FED 14C-22 197  
 Wellbore: OH  
 Design: Prelim #1  
 Latitude: 39.941001  
 Longitude: -108.268499  
 Ground Level: 6510.0  
 RKB @ 6540.0usft (30')

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
2513.0	2616.6	ORANGE_MARKER
2653.0	2765.8	WASATCH
5577.0	5883.6	WASATCH_G_ZONE
6047.0	6384.8	FORT_UNION
7561.0	7969.3	OHIO_CREEK
8311.0	8719.4	WILLIAMS_FORK
11207.0	11615.8	CAMEO
11757.0	12165.9	ROLLINS
11853.0	12261.9	COZZETTE
12453.0	12862.0	Corcoran

**REFERENCE INFORMATION**

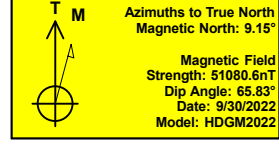
Co-ordinate (N/E) Reference: Well RNPU B27 FED 14C-22 197 - Slot 14C-22, True North  
 Vertical (TVD) Reference: RKB @ 6540.0usft (30')  
 Section (VS) Reference: Slot - 14C-22(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 6540.0usft (30')  
 Calculation Method: Minimum Curvature

**WELL DETAILS: RNPU B27 FED 14C-22 197**

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14516283.40	2406105.70	39.941001	-108.268499

**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

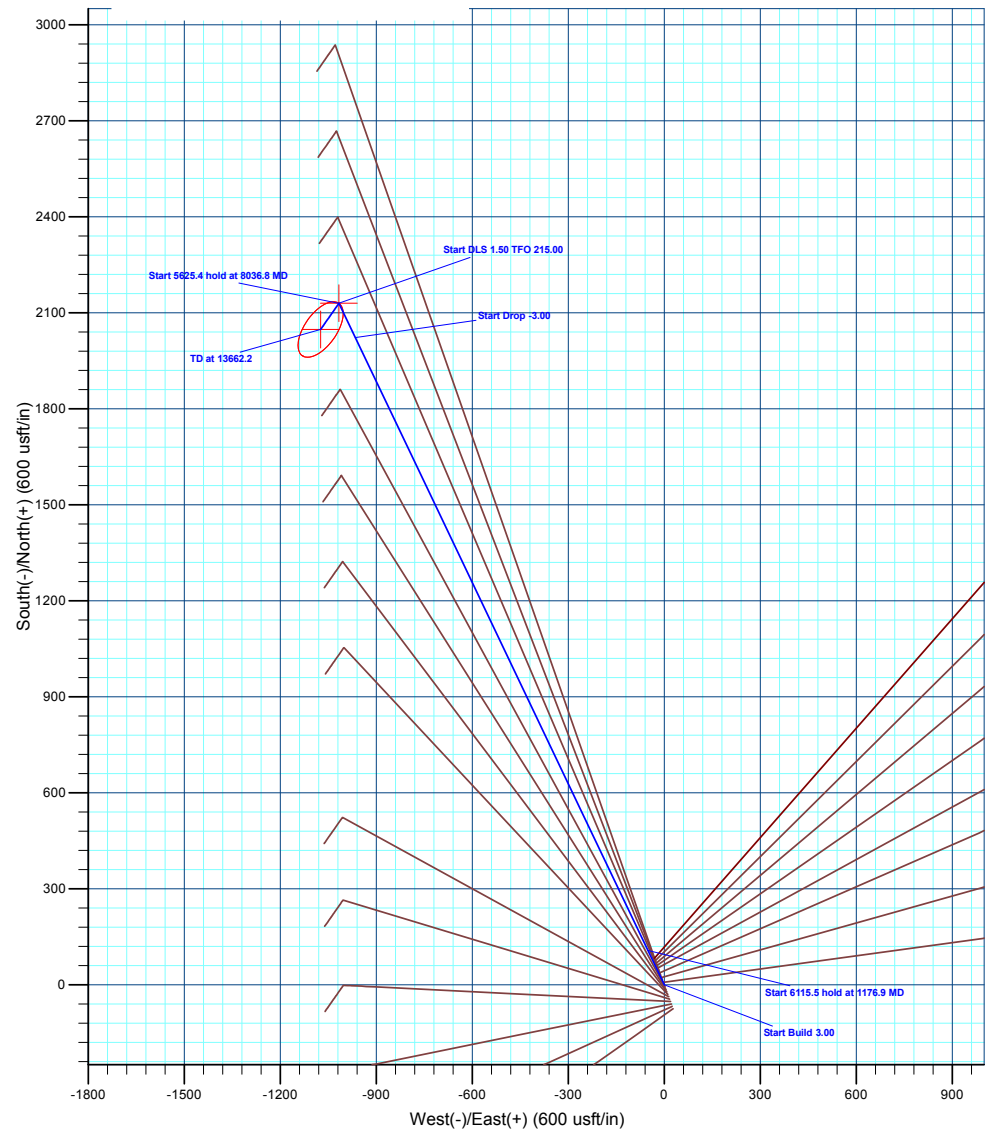
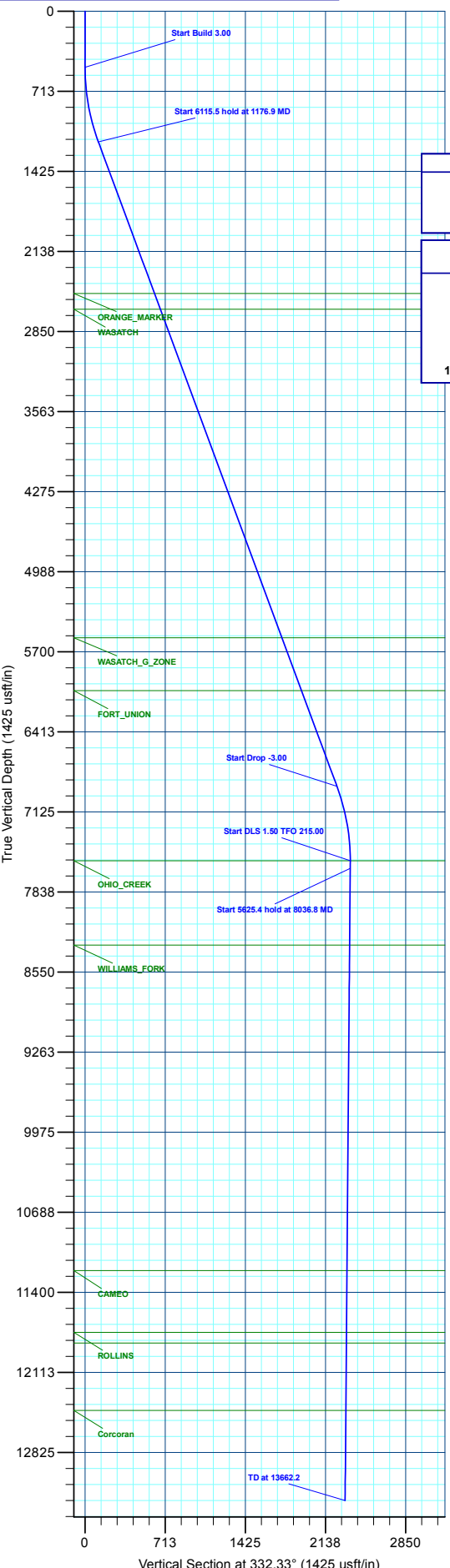


**DESIGN TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
14C-22 - OHCR	7561.0	2129.7	-1016.5	14518380.93	2405024.43	39.946846	-108.272123
14C-22 - PBHL	13253.0	2047.7	-1073.9	14518297.30	2404969.60	39.946621	-108.272328

**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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Start Build 3.00
1176.9	20.31	334.48	1162.8	107.1	-51.1	3.00	334.48	118.6	Start 6115.5 hold at 1176.9 MD
7292.4	20.31	334.48	6898.2	2022.5	-965.4	0.00	0.00	2239.5	Start Drop -3.00
7969.3	0.00	0.00	7561.0	2129.7	-1016.5	3.00	180.00	2358.2	Start DLS 1.50 TFO 215.00
8036.8	1.01	215.00	7828.5	2129.2	-1016.9	1.50	215.00	2357.9	Start 5625.4 hold at 8036.8 MD
13662.2	1.01	215.00	13253.0	2047.7	-1073.9	0.00	0.00	2312.3	TD at 13662.2



**Plan: Prelim #1 (RNPU B27 FED 14C-22 197/OH)**  
 Created By: Will Jircik Date: 1:21, November 02 2022



## **Caerus Oil & Gas**

**Rio Blanco County, CO**

**PCU B27 197 Pad**

**RNPU B27 FED 14C-22 197 - Slot 14C-22**

**OH**

**Plan: Prelim #1**

## **KLX Well Planning Report**

**02 November, 2022**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 14C-22 197 - Slot 14C-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 14C-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim #1		

<b>Project</b>	Rio Blanco County, CO		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<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>	14,516,246.40 usft	<b>Latitude:</b>	39.940899
<b>From:</b>	Map	<b>Easting:</b>	2,406,120.80 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 14C-22 197 - Slot 14C-22					
<b>Well Position</b>	<b>+N/-S</b>	37.4 usft	<b>Northing:</b>	14,516,283.40 usft	<b>Latitude:</b>	39.941001
	<b>+E/-W</b>	-14.0 usft	<b>Easting:</b>	2,406,105.70 usft	<b>Longitude:</b>	-108.268499
<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 #1				
<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	332.33	

<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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,176.9	20.31	334.48	1,162.8	107.1	-51.1	3.00	3.00	0.00	334.48	
7,292.4	20.31	334.48	6,898.2	2,022.5	-965.4	0.00	0.00	0.00	0.00	
7,969.3	0.00	0.00	7,561.0	2,129.7	-1,016.5	3.00	-3.00	0.00	180.00	14C-22 - OHCR
8,036.8	1.01	215.00	7,628.5	2,129.2	-1,016.9	1.50	1.50	-214.81	215.00	
13,662.2	1.01	215.00	13,253.0	2,047.7	-1,073.9	0.00	0.00	0.00	0.00	14C-22 - PBHL

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 14C-22 197 - Slot 14C-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 14C-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	
<b>Start Build 3.00</b>										
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	3.00	334.48	600.0	2.4	-1.1	2.6	3.00	3.00	0.00	
700.0	6.00	334.48	699.6	9.4	-4.5	10.5	3.00	3.00	0.00	
800.0	9.00	334.48	798.8	21.2	-10.1	23.5	3.00	3.00	0.00	
900.0	12.00	334.48	897.1	37.7	-18.0	41.7	3.00	3.00	0.00	
1,000.0	15.00	334.48	994.3	58.7	-28.0	65.0	3.00	3.00	0.00	
1,100.0	18.00	334.48	1,090.2	84.4	-40.3	93.4	3.00	3.00	0.00	
<b>Start 6115.5 hold at 1176.9 MD</b>										
1,176.9	20.31	334.48	1,162.8	107.1	-51.1	118.6	3.00	3.00	0.00	
1,200.0	20.31	334.48	1,184.5	114.4	-54.6	126.6	0.00	0.00	0.00	
1,300.0	20.31	334.48	1,278.3	145.7	-69.5	161.3	0.00	0.00	0.00	
1,400.0	20.31	334.48	1,372.1	177.0	-84.5	196.0	0.00	0.00	0.00	
1,500.0	20.31	334.48	1,465.8	208.3	-99.4	230.7	0.00	0.00	0.00	
1,600.0	20.31	334.48	1,559.6	239.6	-114.4	265.4	0.00	0.00	0.00	
1,700.0	20.31	334.48	1,653.4	271.0	-129.3	300.0	0.00	0.00	0.00	
1,800.0	20.31	334.48	1,747.2	302.3	-144.3	334.7	0.00	0.00	0.00	
1,900.0	20.31	334.48	1,841.0	333.6	-159.2	369.4	0.00	0.00	0.00	
2,000.0	20.31	334.48	1,934.8	364.9	-174.2	404.1	0.00	0.00	0.00	
2,100.0	20.31	334.48	2,028.5	396.2	-189.1	438.8	0.00	0.00	0.00	
2,200.0	20.31	334.48	2,122.3	427.6	-204.1	473.4	0.00	0.00	0.00	
2,300.0	20.31	334.48	2,216.1	458.9	-219.0	508.1	0.00	0.00	0.00	
2,400.0	20.31	334.48	2,309.9	490.2	-234.0	542.8	0.00	0.00	0.00	
2,500.0	20.31	334.48	2,403.7	521.5	-248.9	577.5	0.00	0.00	0.00	
2,600.0	20.31	334.48	2,497.5	552.8	-263.9	612.2	0.00	0.00	0.00	
<b>ORANGE_MARKER</b>										
2,616.6	20.31	334.48	2,513.0	558.0	-266.4	617.9	0.00	0.00	0.00	
2,700.0	20.31	334.48	2,591.2	584.2	-278.8	646.8	0.00	0.00	0.00	
<b>WASATCH</b>										
2,765.8	20.31	334.48	2,653.0	604.8	-288.7	669.7	0.00	0.00	0.00	
2,800.0	20.31	334.48	2,685.0	615.5	-293.8	681.5	0.00	0.00	0.00	
2,900.0	20.31	334.48	2,778.8	646.8	-308.7	716.2	0.00	0.00	0.00	
3,000.0	20.31	334.48	2,872.6	678.1	-323.7	750.9	0.00	0.00	0.00	
3,100.0	20.31	334.48	2,966.4	709.5	-338.6	785.6	0.00	0.00	0.00	
3,200.0	20.31	334.48	3,060.2	740.8	-353.6	820.3	0.00	0.00	0.00	
3,300.0	20.31	334.48	3,154.0	772.1	-368.5	854.9	0.00	0.00	0.00	
3,400.0	20.31	334.48	3,247.7	803.4	-383.5	889.6	0.00	0.00	0.00	
3,500.0	20.31	334.48	3,341.5	834.7	-398.4	924.3	0.00	0.00	0.00	
3,600.0	20.31	334.48	3,435.3	866.1	-413.4	959.0	0.00	0.00	0.00	
3,700.0	20.31	334.48	3,529.1	897.4	-428.3	993.7	0.00	0.00	0.00	
3,800.0	20.31	334.48	3,622.9	928.7	-443.3	1,028.3	0.00	0.00	0.00	
3,900.0	20.31	334.48	3,716.7	960.0	-458.2	1,063.0	0.00	0.00	0.00	
4,000.0	20.31	334.48	3,810.4	991.3	-473.2	1,097.7	0.00	0.00	0.00	
4,100.0	20.31	334.48	3,904.2	1,022.7	-488.1	1,132.4	0.00	0.00	0.00	
4,200.0	20.31	334.48	3,998.0	1,054.0	-503.1	1,167.1	0.00	0.00	0.00	
4,300.0	20.31	334.48	4,091.8	1,085.3	-518.0	1,201.7	0.00	0.00	0.00	
4,400.0	20.31	334.48	4,185.6	1,116.6	-533.0	1,236.4	0.00	0.00	0.00	
4,500.0	20.31	334.48	4,279.4	1,147.9	-547.9	1,271.1	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 14C-22 197 - Slot 14C-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 14C-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	20.31	334.48	4,373.2	1,179.3	-562.9	1,305.8	0.00	0.00	0.00
4,700.0	20.31	334.48	4,466.9	1,210.6	-577.8	1,340.5	0.00	0.00	0.00
4,800.0	20.31	334.48	4,560.7	1,241.9	-592.8	1,375.1	0.00	0.00	0.00
4,900.0	20.31	334.48	4,654.5	1,273.2	-607.7	1,409.8	0.00	0.00	0.00
5,000.0	20.31	334.48	4,748.3	1,304.5	-622.7	1,444.5	0.00	0.00	0.00
5,100.0	20.31	334.48	4,842.1	1,335.9	-637.6	1,479.2	0.00	0.00	0.00
5,200.0	20.31	334.48	4,935.9	1,367.2	-652.6	1,513.9	0.00	0.00	0.00
5,300.0	20.31	334.48	5,029.6	1,398.5	-667.5	1,548.6	0.00	0.00	0.00
5,400.0	20.31	334.48	5,123.4	1,429.8	-682.5	1,583.2	0.00	0.00	0.00
5,500.0	20.31	334.48	5,217.2	1,461.1	-697.4	1,617.9	0.00	0.00	0.00
5,600.0	20.31	334.48	5,311.0	1,492.5	-712.4	1,652.6	0.00	0.00	0.00
5,700.0	20.31	334.48	5,404.8	1,523.8	-727.3	1,687.3	0.00	0.00	0.00
5,800.0	20.31	334.48	5,498.6	1,555.1	-742.3	1,722.0	0.00	0.00	0.00
<b>WASATCH_G_ZONE</b>									
5,883.6	20.31	334.48	5,577.0	1,581.3	-754.8	1,751.0	0.00	0.00	0.00
5,900.0	20.31	334.48	5,592.3	1,586.4	-757.2	1,756.6	0.00	0.00	0.00
6,000.0	20.31	334.48	5,686.1	1,617.7	-772.2	1,791.3	0.00	0.00	0.00
6,100.0	20.31	334.48	5,779.9	1,649.1	-787.1	1,826.0	0.00	0.00	0.00
6,200.0	20.31	334.48	5,873.7	1,680.4	-802.1	1,860.7	0.00	0.00	0.00
6,300.0	20.31	334.48	5,967.5	1,711.7	-817.0	1,895.4	0.00	0.00	0.00
<b>FORT_UNION</b>									
6,384.8	20.31	334.48	6,047.0	1,738.3	-829.7	1,924.8	0.00	0.00	0.00
6,400.0	20.31	334.48	6,061.3	1,743.0	-832.0	1,930.0	0.00	0.00	0.00
6,500.0	20.31	334.48	6,155.1	1,774.3	-846.9	1,964.7	0.00	0.00	0.00
6,600.0	20.31	334.48	6,248.8	1,805.7	-861.9	1,999.4	0.00	0.00	0.00
6,700.0	20.31	334.48	6,342.6	1,837.0	-876.8	2,034.1	0.00	0.00	0.00
6,800.0	20.31	334.48	6,436.4	1,868.3	-891.8	2,068.8	0.00	0.00	0.00
6,900.0	20.31	334.48	6,530.2	1,899.6	-906.7	2,103.5	0.00	0.00	0.00
7,000.0	20.31	334.48	6,624.0	1,931.0	-921.7	2,138.1	0.00	0.00	0.00
7,100.0	20.31	334.48	6,717.8	1,962.3	-936.6	2,172.8	0.00	0.00	0.00
7,200.0	20.31	334.48	6,811.5	1,993.6	-951.6	2,207.5	0.00	0.00	0.00
<b>Start Drop -3.00</b>									
7,292.4	20.31	334.48	6,898.2	2,022.5	-965.4	2,239.5	0.00	0.00	0.00
7,300.0	20.08	334.48	6,905.3	2,024.9	-966.5	2,242.2	3.00	-3.00	0.00
7,400.0	17.08	334.48	7,000.1	2,053.6	-980.3	2,274.0	3.00	-3.00	0.00
7,500.0	14.08	334.48	7,096.4	2,077.9	-991.8	2,300.8	3.00	-3.00	0.00
7,600.0	11.08	334.48	7,194.0	2,097.5	-1,001.2	2,322.6	3.00	-3.00	0.00
7,700.0	8.08	334.48	7,292.6	2,112.5	-1,008.4	2,339.2	3.00	-3.00	0.00
7,800.0	5.08	334.48	7,391.9	2,122.9	-1,013.3	2,350.7	3.00	-3.00	0.00
7,900.0	2.08	334.48	7,491.7	2,128.5	-1,016.0	2,356.9	3.00	-3.00	0.00
<b>Start DLS 1.50 TFO 215.00 - OHIO_CREEK</b>									
7,969.3	0.00	0.00	7,561.0	2,129.7	-1,016.5	2,358.2	3.00	-3.00	0.00
8,000.0	0.46	215.00	7,591.7	2,129.6	-1,016.6	2,358.1	1.50	1.50	0.00
<b>Start 5625.4 hold at 8036.8 MD</b>									
8,036.8	1.01	215.00	7,628.5	2,129.2	-1,016.9	2,357.9	1.50	1.50	0.00
8,100.0	1.01	215.00	7,691.7	2,128.2	-1,017.5	2,357.4	0.00	0.00	0.00
8,200.0	1.01	215.00	7,791.7	2,126.8	-1,018.5	2,356.6	0.00	0.00	0.00
8,300.0	1.01	215.00	7,891.7	2,125.4	-1,019.6	2,355.7	0.00	0.00	0.00
8,400.0	1.01	215.00	7,991.7	2,123.9	-1,020.6	2,354.9	0.00	0.00	0.00
8,500.0	1.01	215.00	8,091.6	2,122.5	-1,021.6	2,354.1	0.00	0.00	0.00
8,600.0	1.01	215.00	8,191.6	2,121.0	-1,022.6	2,353.3	0.00	0.00	0.00
8,700.0	1.01	215.00	8,291.6	2,119.6	-1,023.6	2,352.5	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 14C-22 197 - Slot 14C-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 14C-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
<b>WILLIAMS_FORK</b>									
8,719.4	1.01	215.00	8,311.0	2,119.3	-1,023.8	2,352.3	0.00	0.00	0.00
8,800.0	1.01	215.00	8,391.6	2,118.1	-1,024.6	2,351.7	0.00	0.00	0.00
8,900.0	1.01	215.00	8,491.6	2,116.7	-1,025.6	2,350.9	0.00	0.00	0.00
9,000.0	1.01	215.00	8,591.6	2,115.2	-1,026.6	2,350.1	0.00	0.00	0.00
9,100.0	1.01	215.00	8,691.6	2,113.8	-1,027.7	2,349.3	0.00	0.00	0.00
9,200.0	1.01	215.00	8,791.5	2,112.3	-1,028.7	2,348.4	0.00	0.00	0.00
9,300.0	1.01	215.00	8,891.5	2,110.9	-1,029.7	2,347.6	0.00	0.00	0.00
9,400.0	1.01	215.00	8,991.5	2,109.4	-1,030.7	2,346.8	0.00	0.00	0.00
9,500.0	1.01	215.00	9,091.5	2,108.0	-1,031.7	2,346.0	0.00	0.00	0.00
9,600.0	1.01	215.00	9,191.5	2,106.5	-1,032.7	2,345.2	0.00	0.00	0.00
9,700.0	1.01	215.00	9,291.5	2,105.1	-1,033.7	2,344.4	0.00	0.00	0.00
9,800.0	1.01	215.00	9,391.4	2,103.6	-1,034.8	2,343.6	0.00	0.00	0.00
9,900.0	1.01	215.00	9,491.4	2,102.2	-1,035.8	2,342.8	0.00	0.00	0.00
10,000.0	1.01	215.00	9,591.4	2,100.7	-1,036.8	2,342.0	0.00	0.00	0.00
10,100.0	1.01	215.00	9,691.4	2,099.3	-1,037.8	2,341.1	0.00	0.00	0.00
10,200.0	1.01	215.00	9,791.4	2,097.9	-1,038.8	2,340.3	0.00	0.00	0.00
10,300.0	1.01	215.00	9,891.4	2,096.4	-1,039.8	2,339.5	0.00	0.00	0.00
10,400.0	1.01	215.00	9,991.3	2,095.0	-1,040.8	2,338.7	0.00	0.00	0.00
10,500.0	1.01	215.00	10,091.3	2,093.5	-1,041.9	2,337.9	0.00	0.00	0.00
10,600.0	1.01	215.00	10,191.3	2,092.1	-1,042.9	2,337.1	0.00	0.00	0.00
10,700.0	1.01	215.00	10,291.3	2,090.6	-1,043.9	2,336.3	0.00	0.00	0.00
10,800.0	1.01	215.00	10,391.3	2,089.2	-1,044.9	2,335.5	0.00	0.00	0.00
10,900.0	1.01	215.00	10,491.3	2,087.7	-1,045.9	2,334.7	0.00	0.00	0.00
11,000.0	1.01	215.00	10,591.3	2,086.3	-1,046.9	2,333.8	0.00	0.00	0.00
11,100.0	1.01	215.00	10,691.2	2,084.8	-1,047.9	2,333.0	0.00	0.00	0.00
11,200.0	1.01	215.00	10,791.2	2,083.4	-1,048.9	2,332.2	0.00	0.00	0.00
11,300.0	1.01	215.00	10,891.2	2,081.9	-1,050.0	2,331.4	0.00	0.00	0.00
11,400.0	1.01	215.00	10,991.2	2,080.5	-1,051.0	2,330.6	0.00	0.00	0.00
11,500.0	1.01	215.00	11,091.2	2,079.0	-1,052.0	2,329.8	0.00	0.00	0.00
11,600.0	1.01	215.00	11,191.2	2,077.6	-1,053.0	2,329.0	0.00	0.00	0.00
<b>CAMEO</b>									
11,615.8	1.01	215.00	11,207.0	2,077.4	-1,053.2	2,328.9	0.00	0.00	0.00
11,700.0	1.01	215.00	11,291.1	2,076.1	-1,054.0	2,328.2	0.00	0.00	0.00
11,800.0	1.01	215.00	11,391.1	2,074.7	-1,055.0	2,327.4	0.00	0.00	0.00
11,900.0	1.01	215.00	11,491.1	2,073.2	-1,056.0	2,326.5	0.00	0.00	0.00
12,000.0	1.01	215.00	11,591.1	2,071.8	-1,057.1	2,325.7	0.00	0.00	0.00
12,100.0	1.01	215.00	11,691.1	2,070.4	-1,058.1	2,324.9	0.00	0.00	0.00
<b>ROLLINS</b>									
12,165.9	1.01	215.00	11,757.0	2,069.4	-1,058.7	2,324.4	0.00	0.00	0.00
12,200.0	1.01	215.00	11,791.1	2,068.9	-1,059.1	2,324.1	0.00	0.00	0.00
<b>COZZETTE</b>									
12,261.9	1.01	215.00	11,853.0	2,068.0	-1,059.7	2,323.6	0.00	0.00	0.00
12,300.0	1.01	215.00	11,891.1	2,067.5	-1,060.1	2,323.3	0.00	0.00	0.00
12,400.0	1.01	215.00	11,991.0	2,066.0	-1,061.1	2,322.5	0.00	0.00	0.00
12,500.0	1.01	215.00	12,091.0	2,064.6	-1,062.1	2,321.7	0.00	0.00	0.00
12,600.0	1.01	215.00	12,191.0	2,063.1	-1,063.1	2,320.9	0.00	0.00	0.00
12,700.0	1.01	215.00	12,291.0	2,061.7	-1,064.2	2,320.1	0.00	0.00	0.00
12,800.0	1.01	215.00	12,391.0	2,060.2	-1,065.2	2,319.2	0.00	0.00	0.00
<b>Corcoran</b>									
12,862.0	1.01	215.00	12,453.0	2,059.3	-1,065.8	2,318.7	0.00	0.00	0.00
12,900.0	1.01	215.00	12,491.0	2,058.8	-1,066.2	2,318.4	0.00	0.00	0.00
13,000.0	1.01	215.00	12,590.9	2,057.3	-1,067.2	2,317.6	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well RNPU B27 FED 14C-22 197 - Slot 14C-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 6540.0usft (30')
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB @ 6540.0usft (30')
<b>Site:</b>	PCU B27 197 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RNPU B27 FED 14C-22 197	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	1.01	215.00	12,690.9	2,055.9	-1,068.2	2,316.8	0.00	0.00	0.00	
13,200.0	1.01	215.00	12,790.9	2,054.4	-1,069.2	2,316.0	0.00	0.00	0.00	
13,300.0	1.01	215.00	12,890.9	2,053.0	-1,070.2	2,315.2	0.00	0.00	0.00	
13,400.0	1.01	215.00	12,990.9	2,051.5	-1,071.2	2,314.4	0.00	0.00	0.00	
13,500.0	1.01	215.00	13,090.9	2,050.1	-1,072.3	2,313.6	0.00	0.00	0.00	
13,600.0	1.01	215.00	13,190.8	2,048.6	-1,073.3	2,312.8	0.00	0.00	0.00	
<b>TD at 13662.2</b>										
13,662.2	1.01	215.00	13,253.0	2,047.7	-1,073.9	2,312.3	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	
14C-22 - OHCR - hit/miss target - Shape - Point	0.00	0.00	7,561.0	2,129.7	-1,016.5	14,518,380.93	2,405,024.43	39.946846	-108.272124	
14C-22 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 215.00 azi)	0.00	0.00	13,253.0	2,047.7	-1,073.9	14,518,297.30	2,404,969.60	39.946621	-108.272328	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,616.6	2,513.0	ORANGE_MARKER				
2,765.8	2,653.0	WASATCH				
5,883.6	5,577.0	WASATCH_G_ZONE				
6,384.8	6,047.0	FORT_UNION				
7,969.3	7,561.0	OHIO_CREEK				
8,719.4	8,311.0	WILLIAMS_FORK				
11,615.8	11,207.0	CAMEO				
12,165.9	11,757.0	ROLLINS				
12,261.9	11,853.0	COZZETTE				
12,862.0	12,453.0	Corcoran				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
500.0	500.0	0.0	0.0	Start Build 3.00	
1,176.9	1,162.8	107.1	-51.1	Start 6115.5 hold at 1176.9 MD	
7,292.4	6,898.2	2,022.5	-965.4	Start Drop -3.00	
7,969.3	7,561.0	2,129.7	-1,016.5	Start DLS 1.50 TFO 215.00	
8,036.8	7,628.5	2,129.2	-1,016.9	Start 5625.4 hold at 8036.8 MD	
13,662.2	13,253.0	2,047.7	-1,073.9	TD at 13662.2	