

Project: Rio Blanco County, CO
Site: ELU 396 6A
Well: ELU 396 6A1 FED 12B-5 396
Wellbore: OH
Design: Permit #3
Latitude: 39.820656
Longitude: -108.201256
Ground Level: 6663.0
RKB @ 6688.0usft (25')

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

REFERENCE INFORMATION
 Vertical (TVD) Reference: RKB @ 6688.0usft (25')
 Section (VS) Reference: Slot - 12B-5(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 6688.0usft (25')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3298.0	3495.7	Wasatch
6275.0	6702.1	Wasatch G
6421.0	6859.4	Fort Union
8171.0	8707.0	Ohio Creek
8721.0	9257.1	Williams Fork
11764.0	12300.9	Cameo
12510.0	13047.0	Rollins

SECTION DETAILS

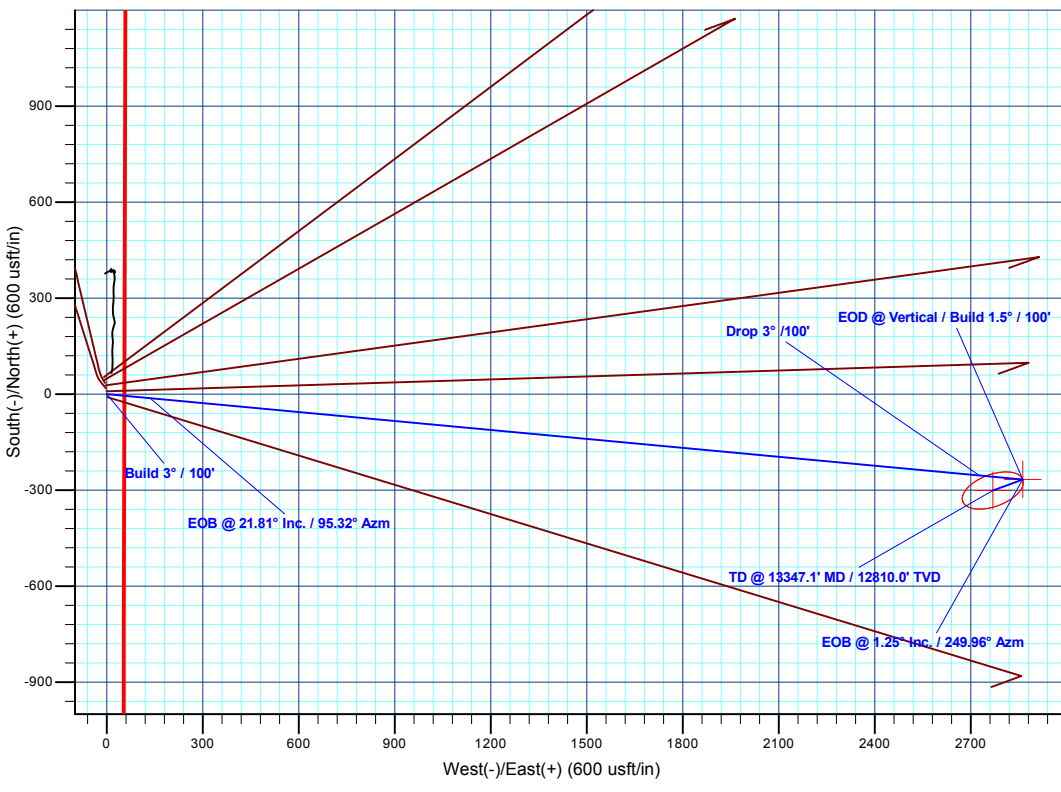
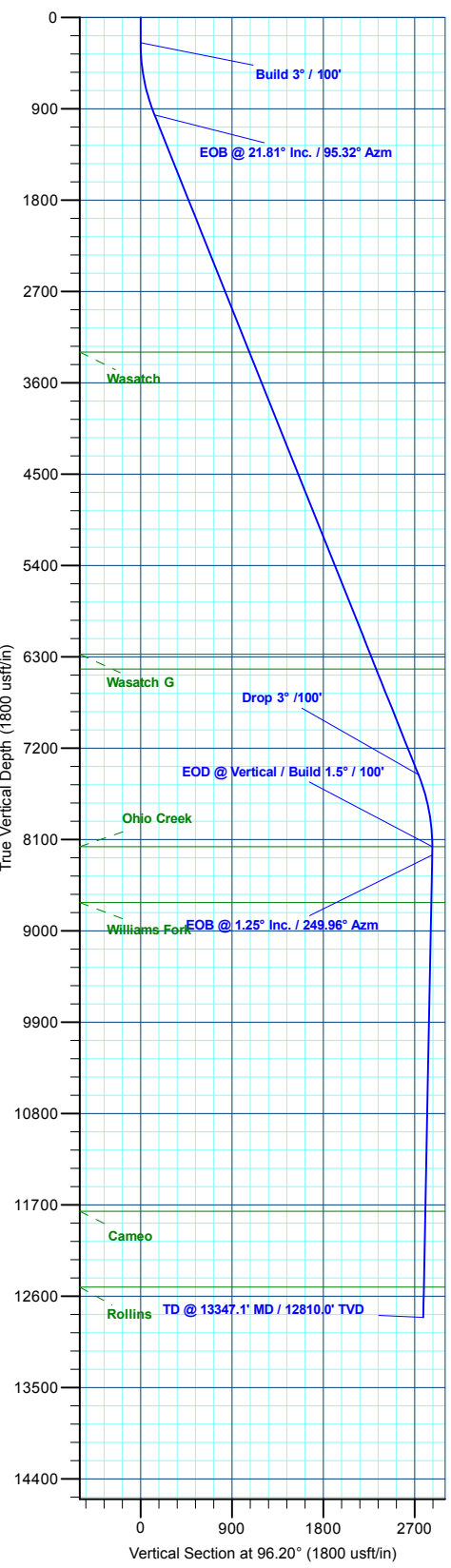
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	EOB @ 21.81° Inc. / 95.32° Azm
976.9	21.81	95.32	959.5	-12.7	136.1	3.00	95.32	136.7	Drop 3° / 100'
7980.1	21.81	95.32	7461.5	-254.0	2726.5	0.00	0.00	2738.0	EOD @ Vertical / Build 1.5° / 100'
8707.0	0.00	0.00	8171.0	-266.7	2862.6	3.00	180.00	2874.6	EOB @ 1.25° Inc. / 249.96° Azm
8790.1	1.25	249.96	8254.1	-267.0	2861.7	1.50	249.96	2873.8	TD @ 13347.1' MD / 12810.0' TVD
13347.1	1.25	249.96	12810.0	-301.0	2768.6	0.00	0.00	2784.9	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
12B-5 v2 - OHCR	8171.0	-266.7	2862.6	14472860.59	2429201.03	39.819923	-108.191069
12B-5 v2 - PBHL	12810.0	-301.0	2768.6	14472823.40	2429108.20	39.819829	-108.191403

WELL DETAILS: ELU 396 6A1 FED 12B-5 396

+N/-S	+E/-W	Ground Level : 6663.0	North	East	Latitude	Longitude
0.0	0.0		14473037.60	2426331.50	39.820656	-108.201256



Compass Rose: T (True), M (Magnetic), A (Azimuth)
Azimuths to True North: 9.17°
Magnetic North: 9.17°
Magnetic Field Strength: 51041.5nT
Dip Angle: 65.78°
Date: 10/14/2022
Model: HDGM2022

Plan: Permit #3 (ELU 396 6A1 FED 12B-5 396/OH)
Created By: Will Jircik **Date: 17:00, September 11 2023**



Caerus Oil & Gas

Rio Blanco County, CO

ELU 396 6A

ELU 396 6A1 FED 12B-5 396 - Slot 12B-5

OH

Plan: Permit #3

KLX Well Planning Report

11 September, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU 396 6A1 FED 12B-5 396 - Slot 12B-5
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 6688.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6688.0usft (25')
Site:	ELU 396 6A	North Reference:	True
Well:	ELU 396 6A1 FED 12B-5 396	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Permit #3		

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	ELU 396 6A		
Site Position:	Northing:	14,473,090.60 usft	Latitude: 39.820802
From: Map	Easting:	2,426,321.30 usft	Longitude: -108.201287
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "		Grid Convergence: 1.79 °

Well	ELU 396 6A1 FED 12B-5 396 - Slot 12B-5		
Well Position	+N/-S -53.3 usft	Northing: 14,473,037.60 usft	Latitude: 39.820656
	+E/-W 8.5 usft	Easting: 2,426,331.50 usft	Longitude: -108.201257
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 6,663.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	10/14/2022	9.17	65.78	51,041.50000000

Design	Permit #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	96.20

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		
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00		
976.9	21.81	95.32	959.5	-12.7	136.1	3.00	3.00	0.00	95.32		
7,980.1	21.81	95.32	7,461.5	-254.0	2,726.5	0.00	0.00	0.00	0.00		
8,707.0	0.00	0.00	8,171.0	-266.7	2,862.6	3.00	-3.00	0.00	180.00	12B-5 v2 - OHCR	
8,790.1	1.25	249.96	8,254.1	-267.0	2,861.7	1.50	1.50	-132.46	249.96		
13,347.1	1.25	249.96	12,810.0	-301.0	2,768.6	0.00	0.00	0.00	0.00	12B-5 v2 - PBHL	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU 396 6A1 FED 12B-5 396 - Slot 12B-5
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 6688.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6688.0usft (25')
Site:	ELU 396 6A	North Reference:	True
Well:	ELU 396 6A1 FED 12B-5 396	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Permit #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
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
Build 3° / 100'									
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	1.50	95.32	300.0	-0.1	0.7	0.7	3.00	3.00	0.00
400.0	4.50	95.32	399.8	-0.5	5.9	5.9	3.00	3.00	0.00
500.0	7.50	95.32	499.3	-1.5	16.3	16.3	3.00	3.00	0.00
600.0	10.50	95.32	598.0	-3.0	31.8	32.0	3.00	3.00	0.00
700.0	13.50	95.32	695.8	-4.9	52.5	52.8	3.00	3.00	0.00
800.0	16.50	95.32	792.4	-7.3	78.3	78.6	3.00	3.00	0.00
900.0	19.50	95.32	887.5	-10.2	109.1	109.5	3.00	3.00	0.00
EOB @ 21.81° Inc. / 95.32° Azm									
976.9	21.81	95.32	959.5	-12.7	136.1	136.7	3.00	3.00	0.00
1,000.0	21.81	95.32	980.9	-13.5	144.6	145.2	0.00	0.00	0.00
1,100.0	21.81	95.32	1,073.8	-16.9	181.6	182.4	0.00	0.00	0.00
1,200.0	21.81	95.32	1,166.6	-20.4	218.6	219.5	0.00	0.00	0.00
1,300.0	21.81	95.32	1,259.5	-23.8	255.6	256.7	0.00	0.00	0.00
1,400.0	21.81	95.32	1,352.3	-27.3	292.6	293.8	0.00	0.00	0.00
1,500.0	21.81	95.32	1,445.1	-30.7	329.6	331.0	0.00	0.00	0.00
1,600.0	21.81	95.32	1,538.0	-34.2	366.6	368.1	0.00	0.00	0.00
1,700.0	21.81	95.32	1,630.8	-37.6	403.5	405.2	0.00	0.00	0.00
1,800.0	21.81	95.32	1,723.7	-41.0	440.5	442.4	0.00	0.00	0.00
1,900.0	21.81	95.32	1,816.5	-44.5	477.5	479.5	0.00	0.00	0.00
2,000.0	21.81	95.32	1,909.4	-47.9	514.5	516.7	0.00	0.00	0.00
2,100.0	21.81	95.32	2,002.2	-51.4	551.5	553.8	0.00	0.00	0.00
2,200.0	21.81	95.32	2,095.0	-54.8	588.5	591.0	0.00	0.00	0.00
2,300.0	21.81	95.32	2,187.9	-58.3	625.5	628.1	0.00	0.00	0.00
2,400.0	21.81	95.32	2,280.7	-61.7	662.5	665.3	0.00	0.00	0.00
2,500.0	21.81	95.32	2,373.6	-65.2	699.5	702.4	0.00	0.00	0.00
2,600.0	21.81	95.32	2,466.4	-68.6	736.4	739.6	0.00	0.00	0.00
2,700.0	21.81	95.32	2,559.3	-72.1	773.4	776.7	0.00	0.00	0.00
2,800.0	21.81	95.32	2,652.1	-75.5	810.4	813.8	0.00	0.00	0.00
2,900.0	21.81	95.32	2,745.0	-79.0	847.4	851.0	0.00	0.00	0.00
3,000.0	21.81	95.32	2,837.8	-82.4	884.4	888.1	0.00	0.00	0.00
3,100.0	21.81	95.32	2,930.6	-85.9	921.4	925.3	0.00	0.00	0.00
3,200.0	21.81	95.32	3,023.5	-89.3	958.4	962.4	0.00	0.00	0.00
3,300.0	21.81	95.32	3,116.3	-92.7	995.4	999.6	0.00	0.00	0.00
3,400.0	21.81	95.32	3,209.2	-96.2	1,032.4	1,036.7	0.00	0.00	0.00
Wasatch									
3,495.7	21.81	95.32	3,298.0	-99.5	1,067.8	1,072.2	0.00	0.00	0.00
3,500.0	21.81	95.32	3,302.0	-99.6	1,069.3	1,073.9	0.00	0.00	0.00
3,600.0	21.81	95.32	3,394.9	-103.1	1,106.3	1,111.0	0.00	0.00	0.00
3,700.0	21.81	95.32	3,487.7	-106.5	1,143.3	1,148.1	0.00	0.00	0.00
3,800.0	21.81	95.32	3,580.5	-110.0	1,180.3	1,185.3	0.00	0.00	0.00
3,900.0	21.81	95.32	3,673.4	-113.4	1,217.3	1,222.4	0.00	0.00	0.00
4,000.0	21.81	95.32	3,766.2	-116.9	1,254.3	1,259.6	0.00	0.00	0.00
4,100.0	21.81	95.32	3,859.1	-120.3	1,291.3	1,296.7	0.00	0.00	0.00
4,200.0	21.81	95.32	3,951.9	-123.8	1,328.3	1,333.9	0.00	0.00	0.00
4,300.0	21.81	95.32	4,044.8	-127.2	1,365.3	1,371.0	0.00	0.00	0.00
4,400.0	21.81	95.32	4,137.6	-130.7	1,402.3	1,408.2	0.00	0.00	0.00
4,500.0	21.81	95.32	4,230.4	-134.1	1,439.2	1,445.3	0.00	0.00	0.00
4,600.0	21.81	95.32	4,323.3	-137.5	1,476.2	1,482.4	0.00	0.00	0.00

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Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 6688.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6688.0usft (25')
Site:	ELU 396 6A	North Reference:	True
Well:	ELU 396 6A1 FED 12B-5 396	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Permit #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)
4,700.0	21.81	95.32	4,416.1	-141.0	1,513.2	1,519.6	0.00	0.00	0.00
4,800.0	21.81	95.32	4,509.0	-144.4	1,550.2	1,556.7	0.00	0.00	0.00
4,900.0	21.81	95.32	4,601.8	-147.9	1,587.2	1,593.9	0.00	0.00	0.00
5,000.0	21.81	95.32	4,694.7	-151.3	1,624.2	1,631.0	0.00	0.00	0.00
5,100.0	21.81	95.32	4,787.5	-154.8	1,661.2	1,668.2	0.00	0.00	0.00
5,200.0	21.81	95.32	4,880.4	-158.2	1,698.2	1,705.3	0.00	0.00	0.00
5,300.0	21.81	95.32	4,973.2	-161.7	1,735.2	1,742.5	0.00	0.00	0.00
5,400.0	21.81	95.32	5,066.0	-165.1	1,772.1	1,779.6	0.00	0.00	0.00
5,500.0	21.81	95.32	5,158.9	-168.6	1,809.1	1,816.8	0.00	0.00	0.00
5,600.0	21.81	95.32	5,251.7	-172.0	1,846.1	1,853.9	0.00	0.00	0.00
5,700.0	21.81	95.32	5,344.6	-175.5	1,883.1	1,891.0	0.00	0.00	0.00
5,800.0	21.81	95.32	5,437.4	-178.9	1,920.1	1,928.2	0.00	0.00	0.00
5,900.0	21.81	95.32	5,530.3	-182.3	1,957.1	1,965.3	0.00	0.00	0.00
6,000.0	21.81	95.32	5,623.1	-185.8	1,994.1	2,002.5	0.00	0.00	0.00
6,100.0	21.81	95.32	5,715.9	-189.2	2,031.1	2,039.6	0.00	0.00	0.00
6,200.0	21.81	95.32	5,808.8	-192.7	2,068.1	2,076.8	0.00	0.00	0.00
6,300.0	21.81	95.32	5,901.6	-196.1	2,105.0	2,113.9	0.00	0.00	0.00
6,400.0	21.81	95.32	5,994.5	-199.6	2,142.0	2,151.1	0.00	0.00	0.00
6,500.0	21.81	95.32	6,087.3	-203.0	2,179.0	2,188.2	0.00	0.00	0.00
6,600.0	21.81	95.32	6,180.2	-206.5	2,216.0	2,225.3	0.00	0.00	0.00
6,700.0	21.81	95.32	6,273.0	-209.9	2,253.0	2,262.5	0.00	0.00	0.00
Wasatch G									
6,702.1	21.81	95.32	6,275.0	-210.0	2,253.8	2,263.3	0.00	0.00	0.00
6,800.0	21.81	95.32	6,365.9	-213.4	2,290.0	2,299.6	0.00	0.00	0.00
Fort Union									
6,859.4	21.81	95.32	6,421.0	-215.4	2,312.0	2,321.7	0.00	0.00	0.00
6,900.0	21.81	95.32	6,458.7	-216.8	2,327.0	2,336.8	0.00	0.00	0.00
7,000.0	21.81	95.32	6,551.5	-220.3	2,364.0	2,373.9	0.00	0.00	0.00
7,100.0	21.81	95.32	6,644.4	-223.7	2,401.0	2,411.1	0.00	0.00	0.00
7,200.0	21.81	95.32	6,737.2	-227.2	2,437.9	2,448.2	0.00	0.00	0.00
7,300.0	21.81	95.32	6,830.1	-230.6	2,474.9	2,485.4	0.00	0.00	0.00
7,400.0	21.81	95.32	6,922.9	-234.0	2,511.9	2,522.5	0.00	0.00	0.00
7,500.0	21.81	95.32	7,015.8	-237.5	2,548.9	2,559.6	0.00	0.00	0.00
7,600.0	21.81	95.32	7,108.6	-240.9	2,585.9	2,596.8	0.00	0.00	0.00
7,700.0	21.81	95.32	7,201.4	-244.4	2,622.9	2,633.9	0.00	0.00	0.00
7,800.0	21.81	95.32	7,294.3	-247.8	2,659.9	2,671.1	0.00	0.00	0.00
7,900.0	21.81	95.32	7,387.1	-251.3	2,696.9	2,708.2	0.00	0.00	0.00
Drop 3° /100'									
7,980.1	21.81	95.32	7,461.5	-254.0	2,726.5	2,738.0	0.00	0.00	0.00
8,000.0	21.21	95.32	7,480.0	-254.7	2,733.8	2,745.3	3.00	-3.00	0.00
8,100.0	18.21	95.32	7,574.1	-257.8	2,767.3	2,779.0	3.00	-3.00	0.00
8,200.0	15.21	95.32	7,669.9	-260.5	2,796.0	2,807.7	3.00	-3.00	0.00
8,300.0	12.21	95.32	7,767.0	-262.7	2,819.6	2,831.4	3.00	-3.00	0.00
8,400.0	9.21	95.32	7,865.3	-264.4	2,838.1	2,850.0	3.00	-3.00	0.00
8,500.0	6.21	95.32	7,964.4	-265.7	2,851.4	2,863.4	3.00	-3.00	0.00
8,600.0	3.21	95.32	8,064.0	-266.4	2,859.6	2,871.6	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,707.0	0.00	0.00	8,171.0	-266.7	2,862.6	2,874.6	3.00	-3.00	0.00
EOB @ 1.25° Inc. / 249.96° Azm									
8,790.1	1.25	249.96	8,254.1	-267.0	2,861.7	2,873.8	1.50	1.50	0.00
8,800.0	1.25	249.96	8,264.0	-267.1	2,861.5	2,873.6	0.00	0.00	0.00
8,900.0	1.25	249.96	8,363.9	-267.8	2,859.5	2,871.7	0.00	0.00	0.00

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Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 6688.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6688.0usft (25')
Site:	ELU 396 6A	North Reference:	True
Well:	ELU 396 6A1 FED 12B-5 396	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Permit #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)
9,000.0	1.25	249.96	8,463.9	-268.6	2,857.4	2,869.7	0.00	0.00	0.00
9,100.0	1.25	249.96	8,563.9	-269.3	2,855.4	2,867.8	0.00	0.00	0.00
9,200.0	1.25	249.96	8,663.9	-270.1	2,853.4	2,865.8	0.00	0.00	0.00
Williams Fork									
9,257.1	1.25	249.96	8,721.0	-270.5	2,852.2	2,864.7	0.00	0.00	0.00
9,300.0	1.25	249.96	8,763.8	-270.8	2,851.3	2,863.9	0.00	0.00	0.00
9,400.0	1.25	249.96	8,863.8	-271.6	2,849.3	2,861.9	0.00	0.00	0.00
9,500.0	1.25	249.96	8,963.8	-272.3	2,847.2	2,860.0	0.00	0.00	0.00
9,600.0	1.25	249.96	9,063.8	-273.1	2,845.2	2,858.0	0.00	0.00	0.00
9,700.0	1.25	249.96	9,163.8	-273.8	2,843.1	2,856.1	0.00	0.00	0.00
9,800.0	1.25	249.96	9,263.7	-274.6	2,841.1	2,854.1	0.00	0.00	0.00
9,900.0	1.25	249.96	9,363.7	-275.3	2,839.1	2,852.2	0.00	0.00	0.00
10,000.0	1.25	249.96	9,463.7	-276.0	2,837.0	2,850.2	0.00	0.00	0.00
10,100.0	1.25	249.96	9,563.7	-276.8	2,835.0	2,848.3	0.00	0.00	0.00
10,200.0	1.25	249.96	9,663.6	-277.5	2,832.9	2,846.3	0.00	0.00	0.00
10,300.0	1.25	249.96	9,763.6	-278.3	2,830.9	2,844.4	0.00	0.00	0.00
10,400.0	1.25	249.96	9,863.6	-279.0	2,828.8	2,842.4	0.00	0.00	0.00
10,500.0	1.25	249.96	9,963.6	-279.8	2,826.8	2,840.5	0.00	0.00	0.00
10,600.0	1.25	249.96	10,063.5	-280.5	2,824.8	2,838.5	0.00	0.00	0.00
10,700.0	1.25	249.96	10,163.5	-281.3	2,822.7	2,836.6	0.00	0.00	0.00
10,800.0	1.25	249.96	10,263.5	-282.0	2,820.7	2,834.6	0.00	0.00	0.00
10,900.0	1.25	249.96	10,363.5	-282.8	2,818.6	2,832.7	0.00	0.00	0.00
11,000.0	1.25	249.96	10,463.4	-283.5	2,816.6	2,830.7	0.00	0.00	0.00
11,100.0	1.25	249.96	10,563.4	-284.2	2,814.5	2,828.8	0.00	0.00	0.00
11,200.0	1.25	249.96	10,663.4	-285.0	2,812.5	2,826.8	0.00	0.00	0.00
11,300.0	1.25	249.96	10,763.4	-285.7	2,810.5	2,824.9	0.00	0.00	0.00
11,400.0	1.25	249.96	10,863.4	-286.5	2,808.4	2,822.9	0.00	0.00	0.00
11,500.0	1.25	249.96	10,963.3	-287.2	2,806.4	2,821.0	0.00	0.00	0.00
11,600.0	1.25	249.96	11,063.3	-288.0	2,804.3	2,819.0	0.00	0.00	0.00
11,700.0	1.25	249.96	11,163.3	-288.7	2,802.3	2,817.1	0.00	0.00	0.00
11,800.0	1.25	249.96	11,263.3	-289.5	2,800.2	2,815.1	0.00	0.00	0.00
11,900.0	1.25	249.96	11,363.2	-290.2	2,798.2	2,813.2	0.00	0.00	0.00
12,000.0	1.25	249.96	11,463.2	-290.9	2,796.2	2,811.2	0.00	0.00	0.00
12,100.0	1.25	249.96	11,563.2	-291.7	2,794.1	2,809.3	0.00	0.00	0.00
12,200.0	1.25	249.96	11,663.2	-292.4	2,792.1	2,807.3	0.00	0.00	0.00
12,300.0	1.25	249.96	11,763.1	-293.2	2,790.0	2,805.4	0.00	0.00	0.00
Cameo									
12,300.9	1.25	249.96	11,764.0	-293.2	2,790.0	2,805.4	0.00	0.00	0.00
12,400.0	1.25	249.96	11,863.1	-293.9	2,788.0	2,803.4	0.00	0.00	0.00
12,500.0	1.25	249.96	11,963.1	-294.7	2,785.9	2,801.5	0.00	0.00	0.00
12,600.0	1.25	249.96	12,063.1	-295.4	2,783.9	2,799.5	0.00	0.00	0.00
12,700.0	1.25	249.96	12,163.0	-296.2	2,781.9	2,797.6	0.00	0.00	0.00
12,800.0	1.25	249.96	12,263.0	-296.9	2,779.8	2,795.6	0.00	0.00	0.00
12,900.0	1.25	249.96	12,363.0	-297.7	2,777.8	2,793.7	0.00	0.00	0.00
13,000.0	1.25	249.96	12,463.0	-298.4	2,775.7	2,791.7	0.00	0.00	0.00
Rollins									
13,047.0	1.25	249.96	12,510.0	-298.7	2,774.8	2,790.8	0.00	0.00	0.00
13,100.0	1.25	249.96	12,562.9	-299.1	2,773.7	2,789.8	0.00	0.00	0.00
13,200.0	1.25	249.96	12,662.9	-299.9	2,771.6	2,787.8	0.00	0.00	0.00
13,300.0	1.25	249.96	12,762.9	-300.6	2,769.6	2,785.9	0.00	0.00	0.00
TD @ 13347.1' MD / 12810.0' TVD									
13,347.1	1.25	249.96	12,810.0	-301.0	2,768.6	2,784.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU 396 6A1 FED 12B-5 396 - Slot 12B-5
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 6688.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 6688.0usft (25')
Site:	ELU 396 6A	North Reference:	True
Well:	ELU 396 6A1 FED 12B-5 396	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Permit #3		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
12B-5 v2 - OHCR - hit/miss target - Shape - Point	0.00	0.00	8,171.0	-266.7	2,862.6	14,472,860.59	2,429,201.03	39.819923	-108.191069
12B-5 v2 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,810.0	-301.0	2,768.6	14,472,823.40	2,429,108.20	39.819829	-108.191404

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,495.7	3,298.0	Wasatch				
6,702.1	6,275.0	Wasatch G				
6,859.4	6,421.0	Fort Union				
8,707.0	8,171.0	Ohio Creek				
9,257.1	8,721.0	Williams Fork				
12,300.9	11,764.0	Cameo				
13,047.0	12,510.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
250.0	250.0	0.0	0.0	Build 3° / 100'	
976.9	959.5	-12.7	136.1	EOB @ 21.81° Inc. / 95.32° Azm	
7,980.1	7,461.5	-254.0	2,726.5	Drop 3° / 100'	
8,707.0	8,171.0	-266.7	2,862.6	EOD @ Vertical / Build 1.5° / 100'	
8,790.1	8,254.1	-267.0	2,861.7	EOB @ 1.25° Inc. / 249.96° Azm	
13,347.1	12,810.0	-301.0	2,768.6	TD @ 13347.1' MD / 12810.0' TVD	