

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 25A-12 496
Wellbore: Wellbore #1
Design: Design #4
Latitude: 39.709020
Longitude: -108.103987
Ground Level: 8029.0
RKB @ 8059.0usft (30')

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 @ 8059.0usft (30')
Section (VS) Reference: Slot - 25A-12(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8059.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3483.0	3543.1	Wasatch
6540.0	6665.9	Wasatch G
6840.0	6972.3	Fort Union
8710.0	8876.9	Ohio Creek
9299.0	9466.0	Williams Fork
12383.0	12550.7	Cameo
13074.0	13241.9	Rollins

SECTION DETAILS

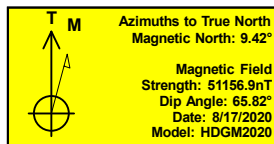
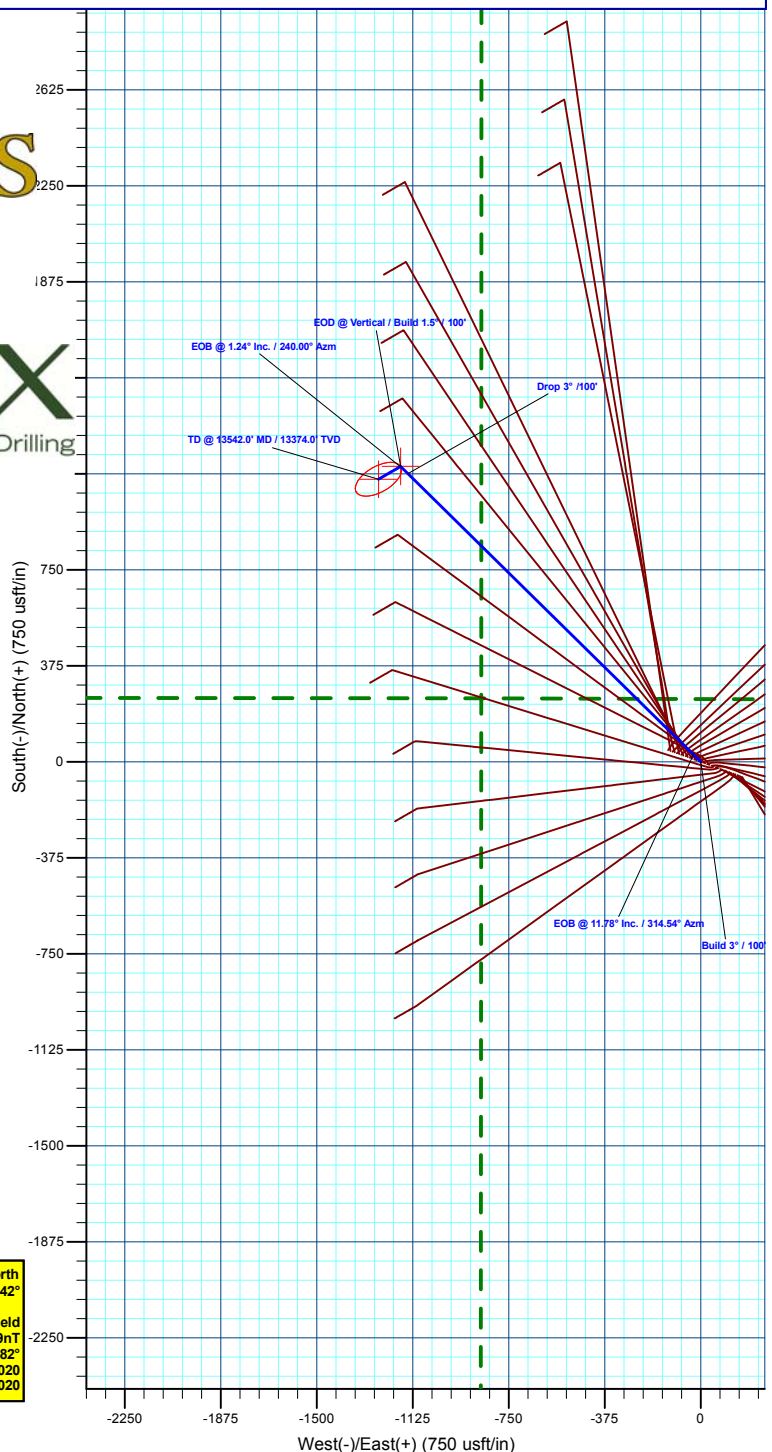
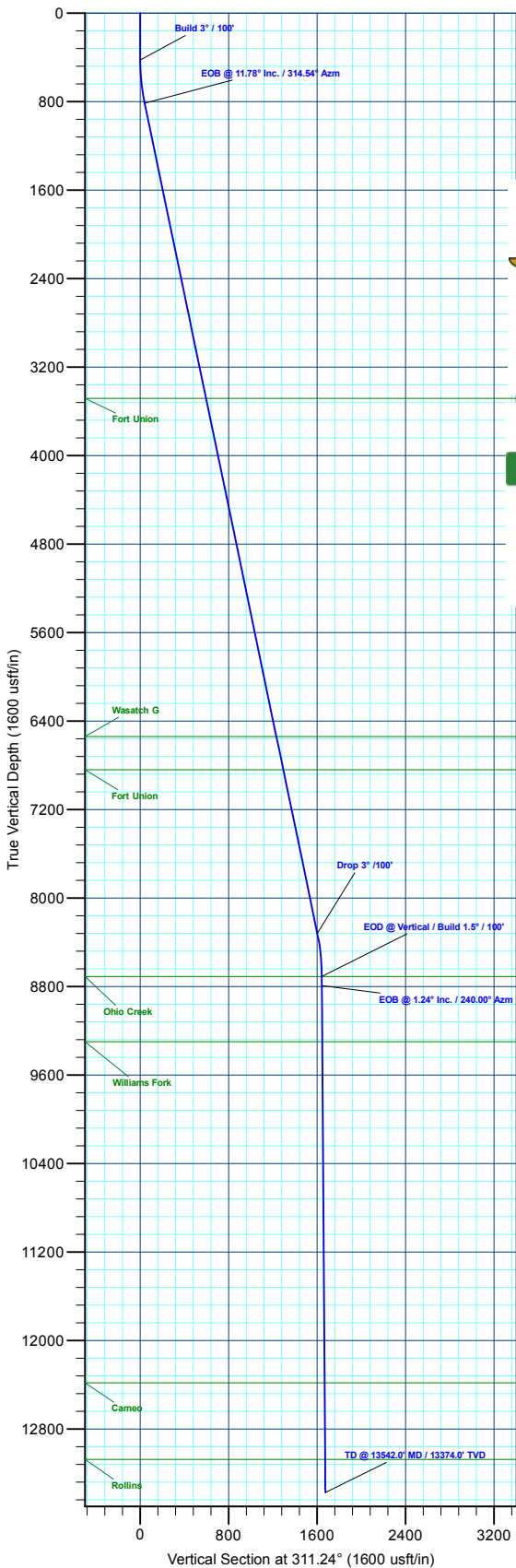
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
425.0	0.00	0.00	425.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
817.5	11.78	314.54	814.8	28.2	-28.7	3.00	314.54	40.1	EOB @ 11.78° Inc. / 314.54° Azm
8484.3	11.78	314.54	8320.2	1125.7	-1143.9	0.00	0.00	1602.2	Drop 3° / 100'
8876.9	0.00	0.00	8710.0	1153.9	-1172.6	3.00	180.00	1642.4	EOD @ Vertical / Build 1.5° / 100'
8959.5	1.24	240.00	8792.6	1153.4	-1173.4	1.50	240.00	1642.7	EOB @ 1.24° Inc. / 240.00° Azm
13542.0	1.24	240.00	13374.0	1103.9	-1259.2	0.00	0.00	1674.5	TD @ 13542.0' MD / 13374.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
25A-12 - OHCR	8710.0	1153.9	-1172.6	14434364.77	2453756.14	39.712186	-108.108154
25A-12 - PBHL	13374.0	1103.9	-1259.2	14434312.00	2453671.20	39.712049	-108.108461

WELL DETAILS: ELU A18 FED 25A-12 496

+N/-S	+E/-W	Ground Level : 8029.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14433249.40	2454965.40	39.709020	-108.103987
						25A-12



Plan: Design #4 (ELU A18 FED 25A-12 496/Wellbore #1)

Created By: Will Jircik

Date: 3:24, October 05 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 25A-12 496 - Slot 25A-12

Wellbore #1

Plan: Design #4

KLX Well Planning Report

05 October, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25A-12 496 - Slot 25A-12
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 25A-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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 A18 495 Pad				
Site Position:		Northing:	14,433,279.80 usft	Latitude:	39.709109	
From:	Map	Easting:	2,454,904.40 usft	Longitude:	-108.104201	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.85 °

Well	ELU A18 FED 25A-12 496 - Slot 25A-12					
Well Position	+N/-S	-32.4 usft	Northing:	14,433,249.40 usft	Latitude:	39.709020
	+E/-W	60.0 usft	Easting:	2,454,965.40 usft	Longitude:	-108.103988
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,029.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	8/17/2020	9.42	65.82	51,156.90000000

Design	Design #4			
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	311.24

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	
425.0	0.00	0.00	425.0	0.0	0.0	0.00	0.00	0.00	0.00	
817.5	11.78	314.54	814.8	28.2	-28.7	3.00	3.00	0.00	314.54	
8,484.3	11.78	314.54	8,320.2	1,125.7	-1,143.9	0.00	0.00	0.00	0.00	
8,876.9	0.00	0.00	8,710.0	1,153.9	-1,172.6	3.00	-3.00	0.00	180.00	25A-12 - OHCR
8,959.5	1.24	240.00	8,792.6	1,153.4	-1,173.4	1.50	1.50	-145.25	240.00	
13,542.0	1.24	240.00	13,374.0	1,103.9	-1,259.2	0.00	0.00	0.00	0.00	25A-12 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25A-12 496 - Slot 25A-12
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 25A-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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
Build 3° / 100'									
425.0	0.00	0.00	425.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	2.25	314.54	500.0	1.0	-1.0	1.5	3.00	3.00	0.00
600.0	5.25	314.54	599.8	5.6	-5.7	8.0	3.00	3.00	0.00
700.0	8.25	314.54	699.1	13.9	-14.1	19.7	3.00	3.00	0.00
800.0	11.25	314.54	797.6	25.7	-26.2	36.6	3.00	3.00	0.00
EOB @ 11.78° Inc. / 314.54° Azm									
817.5	11.78	314.54	814.8	28.2	-28.7	40.1	3.00	3.00	0.00
900.0	11.78	314.54	895.5	40.0	-40.6	56.9	0.00	0.00	0.00
1,000.0	11.78	314.54	993.4	54.3	-55.2	77.3	0.00	0.00	0.00
1,100.0	11.78	314.54	1,091.3	68.6	-69.7	97.7	0.00	0.00	0.00
1,200.0	11.78	314.54	1,189.2	82.9	-84.3	118.1	0.00	0.00	0.00
1,300.0	11.78	314.54	1,287.1	97.3	-98.8	138.4	0.00	0.00	0.00
1,400.0	11.78	314.54	1,385.0	111.6	-113.4	158.8	0.00	0.00	0.00
1,500.0	11.78	314.54	1,482.9	125.9	-127.9	179.2	0.00	0.00	0.00
1,600.0	11.78	314.54	1,580.8	140.2	-142.5	199.6	0.00	0.00	0.00
1,700.0	11.78	314.54	1,678.7	154.5	-157.0	219.9	0.00	0.00	0.00
1,800.0	11.78	314.54	1,776.6	168.8	-171.6	240.3	0.00	0.00	0.00
1,900.0	11.78	314.54	1,874.5	183.1	-186.1	260.7	0.00	0.00	0.00
2,000.0	11.78	314.54	1,972.4	197.5	-200.7	281.1	0.00	0.00	0.00
2,100.0	11.78	314.54	2,070.2	211.8	-215.2	301.4	0.00	0.00	0.00
2,200.0	11.78	314.54	2,168.1	226.1	-229.8	321.8	0.00	0.00	0.00
2,300.0	11.78	314.54	2,266.0	240.4	-244.3	342.2	0.00	0.00	0.00
2,400.0	11.78	314.54	2,363.9	254.7	-258.9	362.6	0.00	0.00	0.00
2,500.0	11.78	314.54	2,461.8	269.0	-273.4	382.9	0.00	0.00	0.00
2,600.0	11.78	314.54	2,559.7	283.3	-287.9	403.3	0.00	0.00	0.00
2,700.0	11.78	314.54	2,657.6	297.7	-302.5	423.7	0.00	0.00	0.00
2,800.0	11.78	314.54	2,755.5	312.0	-317.0	444.1	0.00	0.00	0.00
2,900.0	11.78	314.54	2,853.4	326.3	-331.6	464.4	0.00	0.00	0.00
3,000.0	11.78	314.54	2,951.3	340.6	-346.1	484.8	0.00	0.00	0.00
3,100.0	11.78	314.54	3,049.2	354.9	-360.7	505.2	0.00	0.00	0.00
3,200.0	11.78	314.54	3,147.1	369.2	-375.2	525.6	0.00	0.00	0.00
3,300.0	11.78	314.54	3,245.0	383.5	-389.8	545.9	0.00	0.00	0.00
3,400.0	11.78	314.54	3,342.9	397.9	-404.3	566.3	0.00	0.00	0.00
3,500.0	11.78	314.54	3,440.8	412.2	-418.9	586.7	0.00	0.00	0.00
Wasatch									
3,543.1	11.78	314.54	3,483.0	418.3	-425.1	595.5	0.00	0.00	0.00
3,600.0	11.78	314.54	3,538.7	426.5	-433.4	607.1	0.00	0.00	0.00
3,700.0	11.78	314.54	3,636.6	440.8	-448.0	627.4	0.00	0.00	0.00
3,800.0	11.78	314.54	3,734.5	455.1	-462.5	647.8	0.00	0.00	0.00
3,900.0	11.78	314.54	3,832.4	469.4	-477.1	668.2	0.00	0.00	0.00
4,000.0	11.78	314.54	3,930.3	483.7	-491.6	688.6	0.00	0.00	0.00
4,100.0	11.78	314.54	4,028.2	498.1	-506.2	708.9	0.00	0.00	0.00
4,200.0	11.78	314.54	4,126.0	512.4	-520.7	729.3	0.00	0.00	0.00
4,300.0	11.78	314.54	4,223.9	526.7	-535.2	749.7	0.00	0.00	0.00
4,400.0	11.78	314.54	4,321.8	541.0	-549.8	770.1	0.00	0.00	0.00
4,500.0	11.78	314.54	4,419.7	555.3	-564.3	790.4	0.00	0.00	0.00
4,600.0	11.78	314.54	4,517.6	569.6	-578.9	810.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25A-12 496 - Slot 25A-12
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 25A-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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	11.78	314.54	4,615.5	583.9	-593.4	831.2	0.00	0.00	0.00
4,800.0	11.78	314.54	4,713.4	598.3	-608.0	851.6	0.00	0.00	0.00
4,900.0	11.78	314.54	4,811.3	612.6	-622.5	871.9	0.00	0.00	0.00
5,000.0	11.78	314.54	4,909.2	626.9	-637.1	892.3	0.00	0.00	0.00
5,100.0	11.78	314.54	5,007.1	641.2	-651.6	912.7	0.00	0.00	0.00
5,200.0	11.78	314.54	5,105.0	655.5	-666.2	933.1	0.00	0.00	0.00
5,300.0	11.78	314.54	5,202.9	669.8	-680.7	953.4	0.00	0.00	0.00
5,400.0	11.78	314.54	5,300.8	684.2	-695.3	973.8	0.00	0.00	0.00
5,500.0	11.78	314.54	5,398.7	698.5	-709.8	994.2	0.00	0.00	0.00
5,600.0	11.78	314.54	5,496.6	712.8	-724.4	1,014.6	0.00	0.00	0.00
5,700.0	11.78	314.54	5,594.5	727.1	-738.9	1,034.9	0.00	0.00	0.00
5,800.0	11.78	314.54	5,692.4	741.4	-753.5	1,055.3	0.00	0.00	0.00
5,900.0	11.78	314.54	5,790.3	755.7	-768.0	1,075.7	0.00	0.00	0.00
6,000.0	11.78	314.54	5,888.2	770.0	-782.5	1,096.1	0.00	0.00	0.00
6,100.0	11.78	314.54	5,986.1	784.4	-797.1	1,116.4	0.00	0.00	0.00
6,200.0	11.78	314.54	6,084.0	798.7	-811.6	1,136.8	0.00	0.00	0.00
6,300.0	11.78	314.54	6,181.9	813.0	-826.2	1,157.2	0.00	0.00	0.00
6,400.0	11.78	314.54	6,279.7	827.3	-840.7	1,177.6	0.00	0.00	0.00
6,500.0	11.78	314.54	6,377.6	841.6	-855.3	1,197.9	0.00	0.00	0.00
6,600.0	11.78	314.54	6,475.5	855.9	-869.8	1,218.3	0.00	0.00	0.00
Wasatch G									
6,665.8	11.78	314.54	6,540.0	865.4	-879.4	1,231.7	0.00	0.00	0.00
6,700.0	11.78	314.54	6,573.4	870.2	-884.4	1,238.7	0.00	0.00	0.00
6,800.0	11.78	314.54	6,671.3	884.6	-898.9	1,259.1	0.00	0.00	0.00
6,900.0	11.78	314.54	6,769.2	898.9	-913.5	1,279.4	0.00	0.00	0.00
Fort Union									
6,972.3	11.78	314.54	6,840.0	909.2	-924.0	1,294.2	0.00	0.00	0.00
7,000.0	11.78	314.54	6,867.1	913.2	-928.0	1,299.8	0.00	0.00	0.00
7,100.0	11.78	314.54	6,965.0	927.5	-942.6	1,320.2	0.00	0.00	0.00
7,200.0	11.78	314.54	7,062.9	941.8	-957.1	1,340.6	0.00	0.00	0.00
7,300.0	11.78	314.54	7,160.8	956.1	-971.7	1,360.9	0.00	0.00	0.00
7,400.0	11.78	314.54	7,258.7	970.4	-986.2	1,381.3	0.00	0.00	0.00
7,500.0	11.78	314.54	7,356.6	984.8	-1,000.7	1,401.7	0.00	0.00	0.00
7,600.0	11.78	314.54	7,454.5	999.1	-1,015.3	1,422.1	0.00	0.00	0.00
7,700.0	11.78	314.54	7,552.4	1,013.4	-1,029.8	1,442.4	0.00	0.00	0.00
7,800.0	11.78	314.54	7,650.3	1,027.7	-1,044.4	1,462.8	0.00	0.00	0.00
7,900.0	11.78	314.54	7,748.2	1,042.0	-1,058.9	1,483.2	0.00	0.00	0.00
8,000.0	11.78	314.54	7,846.1	1,056.3	-1,073.5	1,503.6	0.00	0.00	0.00
8,100.0	11.78	314.54	7,944.0	1,070.6	-1,088.0	1,523.9	0.00	0.00	0.00
8,200.0	11.78	314.54	8,041.9	1,085.0	-1,102.6	1,544.3	0.00	0.00	0.00
8,300.0	11.78	314.54	8,139.8	1,099.3	-1,117.1	1,564.7	0.00	0.00	0.00
8,400.0	11.78	314.54	8,237.7	1,113.6	-1,131.7	1,585.1	0.00	0.00	0.00
Drop 3° /100'									
8,484.3	11.78	314.54	8,320.2	1,125.7	-1,143.9	1,602.2	0.00	0.00	0.00
8,500.0	11.31	314.54	8,335.6	1,127.9	-1,146.2	1,605.4	3.00	-3.00	0.00
8,600.0	8.31	314.54	8,434.1	1,139.8	-1,158.3	1,622.4	3.00	-3.00	0.00
8,700.0	5.31	314.54	8,533.4	1,148.1	-1,166.8	1,634.2	3.00	-3.00	0.00
8,800.0	2.31	314.54	8,633.1	1,152.8	-1,171.5	1,640.8	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,876.9	0.00	0.00	8,710.0	1,153.9	-1,172.6	1,642.4	3.00	-3.00	0.00
8,900.0	0.35	240.00	8,733.1	1,153.8	-1,172.7	1,642.4	1.50	1.50	0.00
EOB @ 1.24° Inc. / 240.00° Azm									
8,959.5	1.24	240.00	8,792.6	1,153.4	-1,173.4	1,642.7	1.50	1.50	0.00
9,000.0	1.24	240.00	8,833.1	1,153.0	-1,174.1	1,642.9	0.00	0.00	0.00

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Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 25A-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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)
9,100.0	1.24	240.00	8,933.1	1,151.9	-1,176.0	1,643.6	0.00	0.00	0.00
9,200.0	1.24	240.00	9,033.1	1,150.8	-1,177.9	1,644.3	0.00	0.00	0.00
9,300.0	1.24	240.00	9,133.0	1,149.7	-1,179.7	1,645.0	0.00	0.00	0.00
9,400.0	1.24	240.00	9,233.0	1,148.6	-1,181.6	1,645.7	0.00	0.00	0.00
Williams Fork									
9,466.0	1.24	240.00	9,299.0	1,147.9	-1,182.9	1,646.2	0.00	0.00	0.00
9,500.0	1.24	240.00	9,333.0	1,147.6	-1,183.5	1,646.4	0.00	0.00	0.00
9,600.0	1.24	240.00	9,433.0	1,146.5	-1,185.4	1,647.1	0.00	0.00	0.00
9,700.0	1.24	240.00	9,532.9	1,145.4	-1,187.2	1,647.8	0.00	0.00	0.00
9,800.0	1.24	240.00	9,632.9	1,144.3	-1,189.1	1,648.5	0.00	0.00	0.00
9,900.0	1.24	240.00	9,732.9	1,143.2	-1,191.0	1,649.2	0.00	0.00	0.00
10,000.0	1.24	240.00	9,832.9	1,142.2	-1,192.9	1,649.9	0.00	0.00	0.00
10,100.0	1.24	240.00	9,932.8	1,141.1	-1,194.7	1,650.6	0.00	0.00	0.00
10,200.0	1.24	240.00	10,032.8	1,140.0	-1,196.6	1,651.3	0.00	0.00	0.00
10,300.0	1.24	240.00	10,132.8	1,138.9	-1,198.5	1,652.0	0.00	0.00	0.00
10,400.0	1.24	240.00	10,232.8	1,137.8	-1,200.3	1,652.7	0.00	0.00	0.00
10,500.0	1.24	240.00	10,332.8	1,136.7	-1,202.2	1,653.4	0.00	0.00	0.00
10,600.0	1.24	240.00	10,432.7	1,135.7	-1,204.1	1,654.1	0.00	0.00	0.00
10,700.0	1.24	240.00	10,532.7	1,134.6	-1,206.0	1,654.8	0.00	0.00	0.00
10,800.0	1.24	240.00	10,632.7	1,133.5	-1,207.8	1,655.5	0.00	0.00	0.00
10,900.0	1.24	240.00	10,732.7	1,132.4	-1,209.7	1,656.2	0.00	0.00	0.00
11,000.0	1.24	240.00	10,832.6	1,131.3	-1,211.6	1,656.9	0.00	0.00	0.00
11,100.0	1.24	240.00	10,932.6	1,130.3	-1,213.5	1,657.5	0.00	0.00	0.00
11,200.0	1.24	240.00	11,032.6	1,129.2	-1,215.3	1,658.2	0.00	0.00	0.00
11,300.0	1.24	240.00	11,132.6	1,128.1	-1,217.2	1,658.9	0.00	0.00	0.00
11,400.0	1.24	240.00	11,232.5	1,127.0	-1,219.1	1,659.6	0.00	0.00	0.00
11,500.0	1.24	240.00	11,332.5	1,125.9	-1,221.0	1,660.3	0.00	0.00	0.00
11,600.0	1.24	240.00	11,432.5	1,124.9	-1,222.8	1,661.0	0.00	0.00	0.00
11,700.0	1.24	240.00	11,532.5	1,123.8	-1,224.7	1,661.7	0.00	0.00	0.00
11,800.0	1.24	240.00	11,632.4	1,122.7	-1,226.6	1,662.4	0.00	0.00	0.00
11,900.0	1.24	240.00	11,732.4	1,121.6	-1,228.4	1,663.1	0.00	0.00	0.00
12,000.0	1.24	240.00	11,832.4	1,120.5	-1,230.3	1,663.8	0.00	0.00	0.00
12,100.0	1.24	240.00	11,932.4	1,119.4	-1,232.2	1,664.5	0.00	0.00	0.00
12,200.0	1.24	240.00	12,032.4	1,118.4	-1,234.1	1,665.2	0.00	0.00	0.00
12,300.0	1.24	240.00	12,132.3	1,117.3	-1,235.9	1,665.9	0.00	0.00	0.00
12,400.0	1.24	240.00	12,232.3	1,116.2	-1,237.8	1,666.6	0.00	0.00	0.00
12,500.0	1.24	240.00	12,332.3	1,115.1	-1,239.7	1,667.3	0.00	0.00	0.00
Cameo									
12,550.7	1.24	240.00	12,383.0	1,114.6	-1,240.6	1,667.6	0.00	0.00	0.00
12,600.0	1.24	240.00	12,432.3	1,114.0	-1,241.6	1,668.0	0.00	0.00	0.00
12,700.0	1.24	240.00	12,532.2	1,113.0	-1,243.4	1,668.7	0.00	0.00	0.00
12,800.0	1.24	240.00	12,632.2	1,111.9	-1,245.3	1,669.4	0.00	0.00	0.00
12,900.0	1.24	240.00	12,732.2	1,110.8	-1,247.2	1,670.1	0.00	0.00	0.00
13,000.0	1.24	240.00	12,832.2	1,109.7	-1,249.0	1,670.8	0.00	0.00	0.00
13,100.0	1.24	240.00	12,932.1	1,108.6	-1,250.9	1,671.5	0.00	0.00	0.00
13,200.0	1.24	240.00	13,032.1	1,107.6	-1,252.8	1,672.2	0.00	0.00	0.00
Rollins									
13,241.9	1.24	240.00	13,074.0	1,107.1	-1,253.6	1,672.4	0.00	0.00	0.00
13,300.0	1.24	240.00	13,132.1	1,106.5	-1,254.7	1,672.9	0.00	0.00	0.00
13,400.0	1.24	240.00	13,232.1	1,105.4	-1,256.5	1,673.5	0.00	0.00	0.00
13,500.0	1.24	240.00	13,332.0	1,104.3	-1,258.4	1,674.2	0.00	0.00	0.00
TD @ 13542.0' MD / 13374.0' TVD									
13,542.0	1.24	240.00	13,374.0	1,103.9	-1,259.2	1,674.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25A-12 496 - Slot 25A-12
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 25A-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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
- Shape									
25A-12 - OHCR	0.00	0.00	8,710.0	1,153.9	-1,172.6	14,434,364.77	2,453,756.15	39.712186	-108.108154
- plan hits target center									
- Point									
25A-12 - PBHL	0.00	0.00	13,374.0	1,103.9	-1,259.2	14,434,312.00	2,453,671.20	39.712049	-108.108462
- plan hits target center									
- Ellipse (radii L100.0 W50.0 on 240.00 azi)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,543.1	3,483.0	Wasatch			
6,665.8	6,540.0	Wasatch G			
6,972.3	6,840.0	Fort Union			
8,876.9	8,710.0	Ohio Creek			
9,466.0	9,299.0	Williams Fork			
12,550.7	12,383.0	Cameo			
13,241.9	13,074.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
425.0	425.0	0.0	0.0	Build 3° / 100'
817.5	814.8	28.2	-28.7	EOB @ 11.78° Inc. / 314.54° Azm
8,484.3	8,320.2	1,125.7	-1,143.9	Drop 3° / 100'
8,876.9	8,710.0	1,153.9	-1,172.6	EOD @ Vertical / Build 1.5° / 100'
8,959.5	8,792.6	1,153.4	-1,173.4	EOB @ 1.24° Inc. / 240.00° Azm
13,542.0	13,374.0	1,103.9	-1,259.2	TD @ 13542.0' MD / 13374.0' TVD