

Project: Rio Blanco County, CO
 Site: ELU A18 495 Pad
 Well: ELU A18 FED 14A-7 495
 Wellbore: Wellbore #1
 Design: Design #5
 Latitude: 39.709146
 Longitude: -108.104438
 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 - 14A-7(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8059.0usft (30')
 Calculation Method: Minimum Curvature

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Ddeg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
190.0	0.00	0.00	190.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
3424.0	5.00	30.00	356.5	6.3	3.6	3.00	30.00	7.1	EOB @ 5.00° Inc. / 30.00° Azm / Build 3° / 100'
6647.0	20.92	43.33	877.7	96.8	81.6	3.00	17.28	126.5	EOB @ 20.92° Inc. / 43.33° Azm
6947.0	0.00	0.00	8835.0	2211.4	2076.5	3.00	180.00	3033.3	EOD @ Vertical / Build 1.5° / 100'
8835.0	1.24	240.00	8917.9	2210.9	2075.7	1.50	240.00	3032.4	EOB @ 1.24° Inc. / 240.00° Azm
9435.0	0.00	0.00	8835.0	2211.4	2076.5	3.00	180.00	3033.3	EOD @ Vertical / Build 1.5° / 100'
12515.0	1.24	240.00	8917.9	2210.9	2075.7	1.50	240.00	3032.4	EOB @ 1.24° Inc. / 240.00° Azm
13182.0	1.24	240.00	13482.0	2161.4	1989.9	0.00	0.00	2937.8	TD @ 14027.4' MD / 13482.0' TVD

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
3424.0	3619.2	Fort Union
6647.0	7069.6	Wasatch G
6947.0	7390.8	Fort Union
8835.0	9379.3	Ohio Creek
9435.0	9979.5	Williams Fork
12515.0	13060.2	Cameo
13182.0	13727.3	Rollins

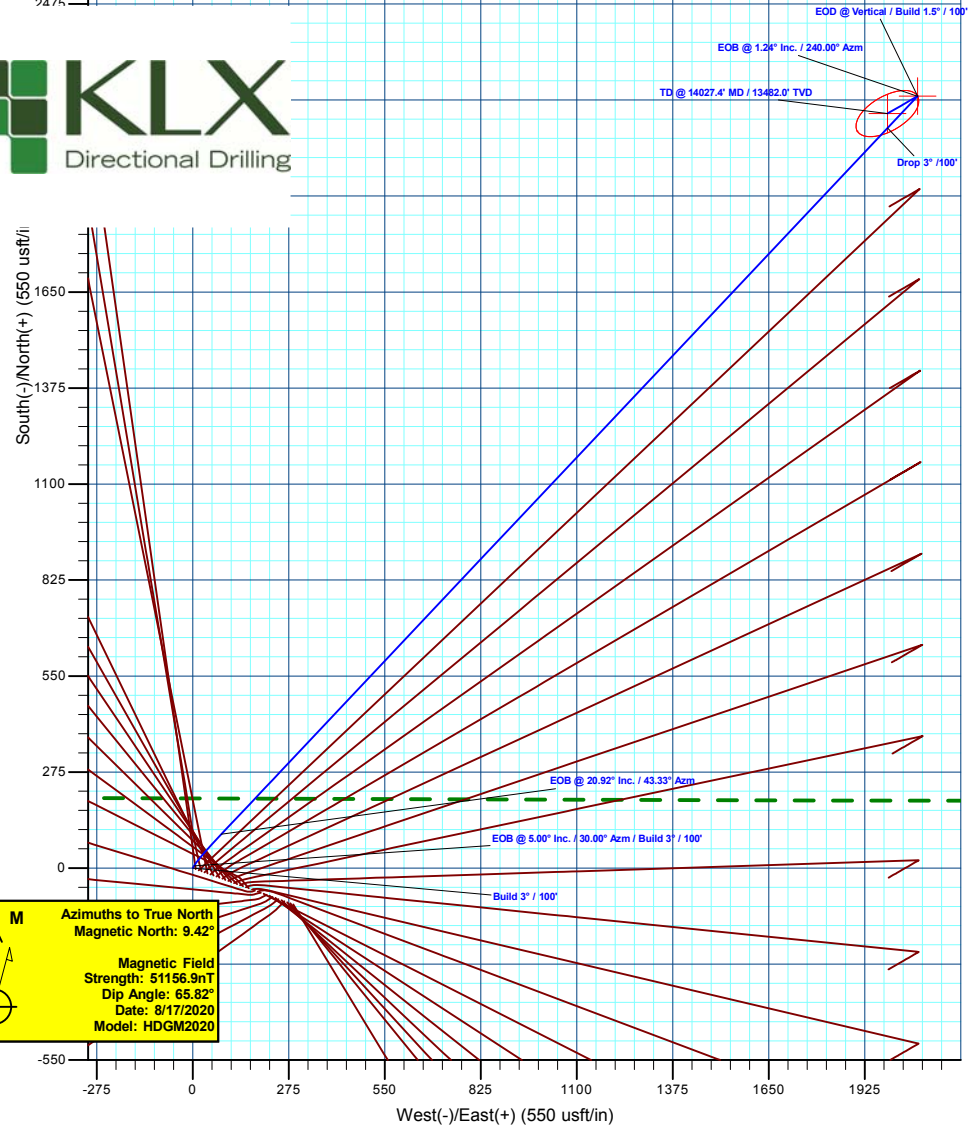
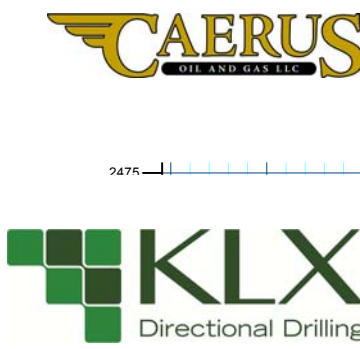
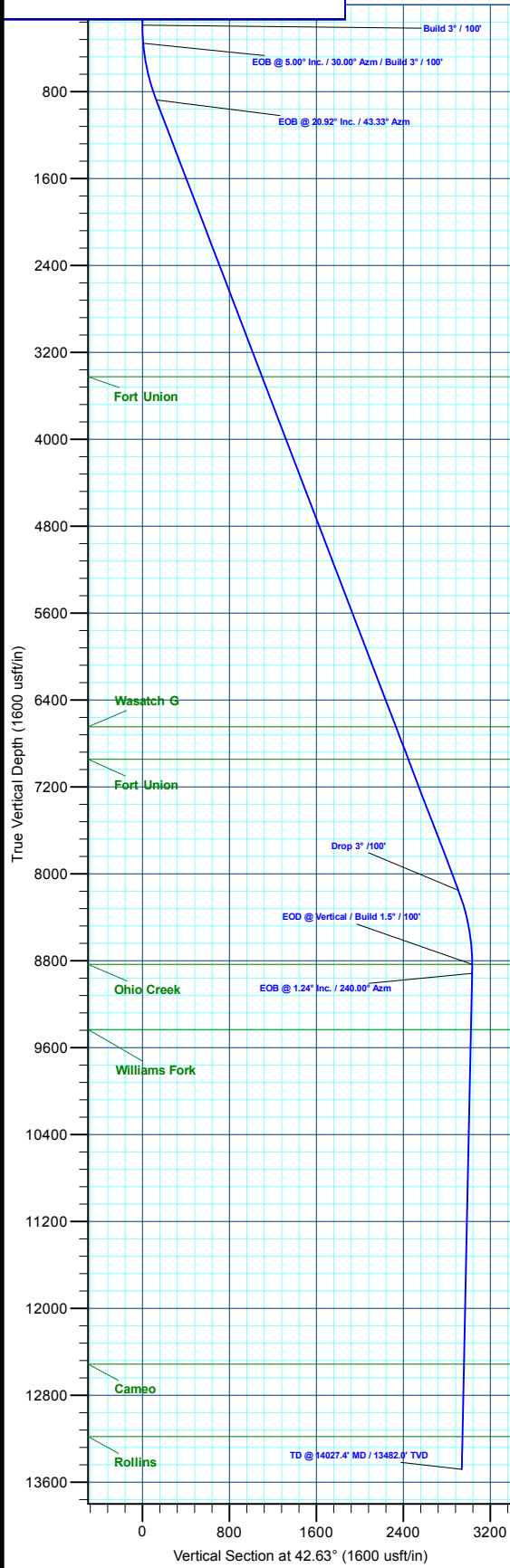
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
14A-7 - OHCR	8835.0	2211.4	2076.5	14435568.47	2456841.04	39.715214	-108.097060
14A-7 - PBHL	13482.0	2161.4	1989.9	14435515.70	2456756.10	39.715077	-108.097368

WELL DETAILS: ELU A18 FED 14A-7 495

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14433291.20	2454837.10	39.709146	-108.104438

Ground Level : 8029.0
 14A-7



T M
 Azimuths to True North
 Magnetic North: 9.42°
 Magnetic Field
 Strength: 51156.9nT
 Dip Angle: 65.82°
 Date: 8/17/2020
 Model: HDGM2020

Plan: Design #5 (ELU A18 FED 14A-7 495/Wellbore #1)

Created By: Will Jircik Date: 3:59, October 05 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 14A-7 495 - Slot 14A-7

Wellbore #1

Plan: Design #5

KLX Well Planning Report

18 October, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14A-7 495 - Slot 14A-7
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 14A-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

Project	Rio Blanco County, CO		
Map System:	Universal Transverse Mercator (US Survey Feet)	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 14A-7 495 - Slot 14A-7					
Well Position	+N/-S	13.6 usft	Northing:	14,433,291.20 usft	Latitude:	39.709146
	+E/-W	-66.9 usft	Easting:	2,454,837.10 usft	Longitude:	-108.104438
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 #5			
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	42.63

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	
190.0	0.00	0.00	190.0	0.0	0.0	0.00	0.00	0.00	0.00	
356.7	5.00	30.00	356.5	6.3	3.6	3.00	3.00	0.00	30.00	
893.1	20.92	43.33	877.7	96.8	81.6	3.00	2.97	2.49	17.28	
8,682.0	20.92	43.33	8,153.1	2,119.8	1,990.1	0.00	0.00	0.00	0.00	
9,379.3	0.00	0.00	8,835.0	2,211.4	2,076.5	3.00	-3.00	0.00	180.00	14A-7 - OHCR
9,462.3	1.24	240.00	8,917.9	2,210.9	2,075.7	1.50	1.50	-144.71	240.00	
14,027.4	1.24	240.00	13,482.0	2,161.4	1,989.9	0.00	0.00	0.00	0.00	14A-7 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14A-7 495 - Slot 14A-7
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 14A-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

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
Build 3° / 100'									
190.0	0.00	0.00	190.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.30	30.00	200.0	0.0	0.0	0.0	3.00	3.00	0.00
300.0	3.30	30.00	299.9	2.7	1.6	3.1	3.00	3.00	0.00
EOB @ 5.00° Inc. / 30.00° Azm / Build 3° / 100'									
356.7	5.00	30.00	356.5	6.3	3.6	7.1	3.00	3.00	0.00
400.0	6.25	33.55	399.6	9.9	5.9	11.3	3.00	2.89	8.18
500.0	9.19	38.01	498.7	20.7	13.8	24.6	3.00	2.94	4.46
600.0	12.16	40.32	596.9	35.1	25.6	43.1	3.00	2.97	2.31
700.0	15.15	41.73	694.1	52.9	41.1	66.7	3.00	2.98	1.41
800.0	18.13	42.68	789.9	74.0	60.3	95.3	3.00	2.99	0.95
EOB @ 20.92° Inc. / 43.33° Azm									
893.1	20.92	43.33	877.7	96.8	81.6	126.5	3.00	2.99	0.70
900.0	20.92	43.33	884.1	98.6	83.2	128.9	0.00	0.00	0.00
1,000.0	20.92	43.33	977.5	124.6	107.7	164.6	0.00	0.00	0.00
1,100.0	20.92	43.33	1,070.9	150.5	132.2	200.3	0.00	0.00	0.00
1,200.0	20.92	43.33	1,164.3	176.5	156.8	236.0	0.00	0.00	0.00
1,300.0	20.92	43.33	1,257.7	202.5	181.3	271.7	0.00	0.00	0.00
1,400.0	20.92	43.33	1,351.1	228.4	205.8	307.4	0.00	0.00	0.00
1,500.0	20.92	43.33	1,444.5	254.4	230.3	343.1	0.00	0.00	0.00
1,600.0	20.92	43.33	1,537.9	280.4	254.8	378.8	0.00	0.00	0.00
1,700.0	20.92	43.33	1,631.3	306.4	279.3	414.5	0.00	0.00	0.00
1,800.0	20.92	43.33	1,724.7	332.3	303.8	450.2	0.00	0.00	0.00
1,900.0	20.92	43.33	1,818.1	358.3	328.3	486.0	0.00	0.00	0.00
2,000.0	20.92	43.33	1,911.6	384.3	352.8	521.7	0.00	0.00	0.00
2,100.0	20.92	43.33	2,005.0	410.3	377.3	557.4	0.00	0.00	0.00
2,200.0	20.92	43.33	2,098.4	436.2	401.8	593.1	0.00	0.00	0.00
2,300.0	20.92	43.33	2,191.8	462.2	426.3	628.8	0.00	0.00	0.00
2,400.0	20.92	43.33	2,285.2	488.2	450.8	664.5	0.00	0.00	0.00
2,500.0	20.92	43.33	2,378.6	514.1	475.3	700.2	0.00	0.00	0.00
2,600.0	20.92	43.33	2,472.0	540.1	499.8	735.9	0.00	0.00	0.00
2,700.0	20.92	43.33	2,565.4	566.1	524.3	771.6	0.00	0.00	0.00
2,800.0	20.92	43.33	2,658.8	592.1	548.8	807.3	0.00	0.00	0.00
2,900.0	20.92	43.33	2,752.2	618.0	573.3	843.0	0.00	0.00	0.00
3,000.0	20.92	43.33	2,845.6	644.0	597.8	878.7	0.00	0.00	0.00
3,100.0	20.92	43.33	2,939.0	670.0	622.3	914.4	0.00	0.00	0.00
3,200.0	20.92	43.33	3,032.4	696.0	646.8	950.1	0.00	0.00	0.00
3,300.0	20.92	43.33	3,125.9	721.9	671.3	985.8	0.00	0.00	0.00
3,400.0	20.92	43.33	3,219.3	747.9	695.8	1,021.5	0.00	0.00	0.00
3,500.0	20.92	43.33	3,312.7	773.9	720.3	1,057.2	0.00	0.00	0.00
3,600.0	20.92	43.33	3,406.1	799.8	744.8	1,092.9	0.00	0.00	0.00
Wasatch									
3,619.2	20.92	43.33	3,424.0	804.8	749.5	1,099.8	0.00	0.00	0.00
3,700.0	20.92	43.33	3,499.5	825.8	769.3	1,128.6	0.00	0.00	0.00
3,800.0	20.92	43.33	3,592.9	851.8	793.8	1,164.3	0.00	0.00	0.00
3,900.0	20.92	43.33	3,686.3	877.8	818.3	1,200.0	0.00	0.00	0.00
4,000.0	20.92	43.33	3,779.7	903.7	842.8	1,235.7	0.00	0.00	0.00
4,100.0	20.92	43.33	3,873.1	929.7	867.3	1,271.4	0.00	0.00	0.00
4,200.0	20.92	43.33	3,966.5	955.7	891.8	1,307.1	0.00	0.00	0.00
4,300.0	20.92	43.33	4,059.9	981.7	916.3	1,342.8	0.00	0.00	0.00
4,400.0	20.92	43.33	4,153.3	1,007.6	940.8	1,378.6	0.00	0.00	0.00
4,500.0	20.92	43.33	4,246.7	1,033.6	965.3	1,414.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14A-7 495 - Slot 14A-7
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 14A-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

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	20.92	43.33	4,340.2	1,059.6	989.9	1,450.0	0.00	0.00	0.00
4,700.0	20.92	43.33	4,433.6	1,085.5	1,014.4	1,485.7	0.00	0.00	0.00
4,800.0	20.92	43.33	4,527.0	1,111.5	1,038.9	1,521.4	0.00	0.00	0.00
4,900.0	20.92	43.33	4,620.4	1,137.5	1,063.4	1,557.1	0.00	0.00	0.00
5,000.0	20.92	43.33	4,713.8	1,163.5	1,087.9	1,592.8	0.00	0.00	0.00
5,100.0	20.92	43.33	4,807.2	1,189.4	1,112.4	1,628.5	0.00	0.00	0.00
5,200.0	20.92	43.33	4,900.6	1,215.4	1,136.9	1,664.2	0.00	0.00	0.00
5,300.0	20.92	43.33	4,994.0	1,241.4	1,161.4	1,699.9	0.00	0.00	0.00
5,400.0	20.92	43.33	5,087.4	1,267.4	1,185.9	1,735.6	0.00	0.00	0.00
5,500.0	20.92	43.33	5,180.8	1,293.3	1,210.4	1,771.3	0.00	0.00	0.00
5,600.0	20.92	43.33	5,274.2	1,319.3	1,234.9	1,807.0	0.00	0.00	0.00
5,700.0	20.92	43.33	5,367.6	1,345.3	1,259.4	1,842.7	0.00	0.00	0.00
5,800.0	20.92	43.33	5,461.0	1,371.2	1,283.9	1,878.4	0.00	0.00	0.00
5,900.0	20.92	43.33	5,554.5	1,397.2	1,308.4	1,914.1	0.00	0.00	0.00
6,000.0	20.92	43.33	5,647.9	1,423.2	1,332.9	1,949.8	0.00	0.00	0.00
6,100.0	20.92	43.33	5,741.3	1,449.2	1,357.4	1,985.5	0.00	0.00	0.00
6,200.0	20.92	43.33	5,834.7	1,475.1	1,381.9	2,021.2	0.00	0.00	0.00
6,300.0	20.92	43.33	5,928.1	1,501.1	1,406.4	2,056.9	0.00	0.00	0.00
6,400.0	20.92	43.33	6,021.5	1,527.1	1,430.9	2,092.6	0.00	0.00	0.00
6,500.0	20.92	43.33	6,114.9	1,553.1	1,455.4	2,128.3	0.00	0.00	0.00
6,600.0	20.92	43.33	6,208.3	1,579.0	1,479.9	2,164.0	0.00	0.00	0.00
6,700.0	20.92	43.33	6,301.7	1,605.0	1,504.4	2,199.7	0.00	0.00	0.00
6,800.0	20.92	43.33	6,395.1	1,631.0	1,528.9	2,235.5	0.00	0.00	0.00
6,900.0	20.92	43.33	6,488.5	1,656.9	1,553.4	2,271.2	0.00	0.00	0.00
7,000.0	20.92	43.33	6,581.9	1,682.9	1,577.9	2,306.9	0.00	0.00	0.00
Wasatch G									
7,069.6	20.92	43.33	6,647.0	1,701.0	1,595.0	2,331.7	0.00	0.00	0.00
7,100.0	20.92	43.33	6,675.4	1,708.9	1,602.4	2,342.6	0.00	0.00	0.00
7,200.0	20.92	43.33	6,768.8	1,734.9	1,626.9	2,378.3	0.00	0.00	0.00
7,300.0	20.92	43.33	6,862.2	1,760.8	1,651.4	2,414.0	0.00	0.00	0.00
Fort Union									
7,390.8	20.92	43.33	6,947.0	1,784.4	1,673.7	2,446.4	0.00	0.00	0.00
7,400.0	20.92	43.33	6,955.6	1,786.8	1,675.9	2,449.7	0.00	0.00	0.00
7,500.0	20.92	43.33	7,049.0	1,812.8	1,700.4	2,485.4	0.00	0.00	0.00
7,600.0	20.92	43.33	7,142.4	1,838.8	1,724.9	2,521.1	0.00	0.00	0.00
7,700.0	20.92	43.33	7,235.8	1,864.7	1,749.4	2,556.8	0.00	0.00	0.00
7,800.0	20.92	43.33	7,329.2	1,890.7	1,773.9	2,592.5	0.00	0.00	0.00
7,900.0	20.92	43.33	7,422.6	1,916.7	1,798.4	2,628.2	0.00	0.00	0.00
8,000.0	20.92	43.33	7,516.0	1,942.6	1,823.0	2,663.9	0.00	0.00	0.00
8,100.0	20.92	43.33	7,609.4	1,968.6	1,847.5	2,699.6	0.00	0.00	0.00
8,200.0	20.92	43.33	7,702.8	1,994.6	1,872.0	2,735.3	0.00	0.00	0.00
8,300.0	20.92	43.33	7,796.2	2,020.6	1,896.5	2,771.0	0.00	0.00	0.00
8,400.0	20.92	43.33	7,889.7	2,046.5	1,921.0	2,806.7	0.00	0.00	0.00
8,500.0	20.92	43.33	7,983.1	2,072.5	1,945.5	2,842.4	0.00	0.00	0.00
8,600.0	20.92	43.33	8,076.5	2,098.5	1,970.0	2,878.1	0.00	0.00	0.00
Drop 3° /100'									
8,682.0	20.92	43.33	8,153.1	2,119.8	1,990.1	2,907.4	0.00	0.00	0.00
8,700.0	20.38	43.33	8,169.9	2,124.4	1,994.4	2,913.8	3.00	-3.00	0.00
8,800.0	17.38	43.33	8,264.5	2,147.9	2,016.6	2,946.1	3.00	-3.00	0.00
8,900.0	14.38	43.33	8,360.7	2,167.8	2,035.4	2,973.5	3.00	-3.00	0.00
9,000.0	11.38	43.33	8,458.2	2,184.0	2,050.7	2,995.7	3.00	-3.00	0.00
9,100.0	8.38	43.33	8,556.7	2,196.5	2,062.5	3,012.9	3.00	-3.00	0.00
9,200.0	5.38	43.33	8,655.9	2,205.2	2,070.7	3,024.9	3.00	-3.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14A-7 495 - Slot 14A-7
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 14A-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

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)	
9,300.0	2.38	43.33	8,755.7	2,210.2	2,075.3	3,031.6	3.00	-3.00	0.00	
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek										
9,379.3	0.00	0.00	8,835.0	2,211.4	2,076.5	3,033.3	3.00	-3.00	0.00	
9,400.0	0.31	240.00	8,855.7	2,211.3	2,076.4	3,033.2	1.50	1.50	0.00	
EOB @ 1.24° Inc. / 240.00° Azm										
9,462.3	1.24	240.00	8,917.9	2,210.9	2,075.7	3,032.4	1.50	1.50	0.00	
9,500.0	1.24	240.00	8,955.7	2,210.5	2,075.0	3,031.6	0.00	0.00	0.00	
9,600.0	1.24	240.00	9,055.6	2,209.4	2,073.1	3,029.6	0.00	0.00	0.00	
9,700.0	1.24	240.00	9,155.6	2,208.3	2,071.2	3,027.5	0.00	0.00	0.00	
9,800.0	1.24	240.00	9,255.6	2,207.2	2,069.3	3,025.4	0.00	0.00	0.00	
9,900.0	1.24	240.00	9,355.6	2,206.2	2,067.4	3,023.4	0.00	0.00	0.00	
Williams Fork										
9,979.5	1.24	240.00	9,435.0	2,205.3	2,066.0	3,021.7	0.00	0.00	0.00	
10,000.0	1.24	240.00	9,455.5	2,205.1	2,065.6	3,021.3	0.00	0.00	0.00	
10,100.0	1.24	240.00	9,555.5	2,204.0	2,063.7	3,019.2	0.00	0.00	0.00	
10,200.0	1.24	240.00	9,655.5	2,202.9	2,061.8	3,017.1	0.00	0.00	0.00	
10,300.0	1.24	240.00	9,755.5	2,201.8	2,059.9	3,015.1	0.00	0.00	0.00	
10,400.0	1.24	240.00	9,855.4	2,200.7	2,058.0	3,013.0	0.00	0.00	0.00	
10,500.0	1.24	240.00	9,955.4	2,199.6	2,056.2	3,010.9	0.00	0.00	0.00	
10,600.0	1.24	240.00	10,055.4	2,198.6	2,054.3	3,008.9	0.00	0.00	0.00	
10,700.0	1.24	240.00	10,155.4	2,197.5	2,052.4	3,006.8	0.00	0.00	0.00	
10,800.0	1.24	240.00	10,255.4	2,196.4	2,050.5	3,004.7	0.00	0.00	0.00	
10,900.0	1.24	240.00	10,355.3	2,195.3	2,048.6	3,002.6	0.00	0.00	0.00	
11,000.0	1.24	240.00	10,455.3	2,194.2	2,046.8	3,000.6	0.00	0.00	0.00	
11,100.0	1.24	240.00	10,555.3	2,193.1	2,044.9	2,998.5	0.00	0.00	0.00	
11,200.0	1.24	240.00	10,655.3	2,192.0	2,043.0	2,996.4	0.00	0.00	0.00	
11,300.0	1.24	240.00	10,755.2	2,191.0	2,041.1	2,994.4	0.00	0.00	0.00	
11,400.0	1.24	240.00	10,855.2	2,189.9	2,039.2	2,992.3	0.00	0.00	0.00	
11,500.0	1.24	240.00	10,955.2	2,188.8	2,037.4	2,990.2	0.00	0.00	0.00	
11,600.0	1.24	240.00	11,055.2	2,187.7	2,035.5	2,988.1	0.00	0.00	0.00	
11,700.0	1.24	240.00	11,155.1	2,186.6	2,033.6	2,986.1	0.00	0.00	0.00	
11,800.0	1.24	240.00	11,255.1	2,185.5	2,031.7	2,984.0	0.00	0.00	0.00	
11,900.0	1.24	240.00	11,355.1	2,184.4	2,029.8	2,981.9	0.00	0.00	0.00	
12,000.0	1.24	240.00	11,455.1	2,183.4	2,028.0	2,979.9	0.00	0.00	0.00	
12,100.0	1.24	240.00	11,555.0	2,182.3	2,026.1	2,977.8	0.00	0.00	0.00	
12,200.0	1.24	240.00	11,655.0	2,181.2	2,024.2	2,975.7	0.00	0.00	0.00	
12,300.0	1.24	240.00	11,755.0	2,180.1	2,022.3	2,973.6	0.00	0.00	0.00	
12,400.0	1.24	240.00	11,855.0	2,179.0	2,020.4	2,971.6	0.00	0.00	0.00	
12,500.0	1.24	240.00	11,955.0	2,177.9	2,018.6	2,969.5	0.00	0.00	0.00	
12,600.0	1.24	240.00	12,054.9	2,176.8	2,016.7	2,967.4	0.00	0.00	0.00	
12,700.0	1.24	240.00	12,154.9	2,175.8	2,014.8	2,965.4	0.00	0.00	0.00	
12,800.0	1.24	240.00	12,254.9	2,174.7	2,012.9	2,963.3	0.00	0.00	0.00	
12,900.0	1.24	240.00	12,354.9	2,173.6	2,011.0	2,961.2	0.00	0.00	0.00	
13,000.0	1.24	240.00	12,454.8	2,172.5	2,009.2	2,959.1	0.00	0.00	0.00	
Cameo										
13,060.2	1.24	240.00	12,515.0	2,171.9	2,008.0	2,957.9	0.00	0.00	0.00	
13,100.0	1.24	240.00	12,554.8	2,171.4	2,007.3	2,957.1	0.00	0.00	0.00	
13,200.0	1.24	240.00	12,654.8	2,170.3	2,005.4	2,955.0	0.00	0.00	0.00	
13,300.0	1.24	240.00	12,754.8	2,169.2	2,003.5	2,952.9	0.00	0.00	0.00	
13,400.0	1.24	240.00	12,854.7	2,168.2	2,001.6	2,950.8	0.00	0.00	0.00	
13,500.0	1.24	240.00	12,954.7	2,167.1	1,999.8	2,948.8	0.00	0.00	0.00	
13,600.0	1.24	240.00	13,054.7	2,166.0	1,997.9	2,946.7	0.00	0.00	0.00	
13,700.0	1.24	240.00	13,154.7	2,164.9	1,996.0	2,944.6	0.00	0.00	0.00	
Rollins										

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14A-7 495 - Slot 14A-7
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 14A-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

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)	
13,727.3	1.24	240.00	13,182.0	2,164.6	1,995.5	2,944.1	0.00	0.00	0.00	
13,800.0	1.24	240.00	13,254.6	2,163.8	1,994.1	2,942.6	0.00	0.00	0.00	
13,900.0	1.24	240.00	13,354.6	2,162.7	1,992.2	2,940.5	0.00	0.00	0.00	
14,000.0	1.24	240.00	13,454.6	2,161.7	1,990.4	2,938.4	0.00	0.00	0.00	
TD @ 14027.4' MD / 13482.0' TVD										
14,027.4	1.24	240.00	13,482.0	2,161.4	1,989.9	2,937.8	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	
14A-7 - OHCR - hit/miss target - Shape	0.00	0.00	8,835.0	2,211.4	2,076.5	14,435,568.47	2,456,841.05	39.715214	-108.097060	
- plan hits target center - Point										
14A-7 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 240.00 azi)	0.00	0.00	13,482.0	2,161.4	1,989.9	14,435,515.70	2,456,756.10	39.715077	-108.097368	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,619.2	3,424.0	Wasatch				
7,069.6	6,647.0	Wasatch G				
7,390.8	6,947.0	Fort Union				
9,379.3	8,835.0	Ohio Creek				
9,979.5	9,435.0	Williams Fork				
13,060.2	12,515.0	Cameo				
13,727.3	13,182.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
190.0	190.0	0.0	0.0	Build 3° / 100'	
356.7	356.5	6.3	3.6	EOB @ 5.00° Inc. / 30.00° Azm / Build 3° / 100'	
893.1	877.7	96.8	81.6	EOB @ 20.92° Inc. / 43.33° Azm	
8,682.0	8,153.1	2,119.8	1,990.1	Drop 3° / 100'	
9,379.3	8,835.0	2,211.4	2,076.5	EOD @ Vertical / Build 1.5° / 100'	
9,462.3	8,917.9	2,210.9	2,075.7	EOB @ 1.24° Inc. / 240.00° Azm	
14,027.4	13,482.0	2,161.4	1,989.9	TD @ 14027.4' MD / 13482.0' TVD	