

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 21B-26 496
 Wellbore: Wellbore #1
 Design: Design #1
 Latitude: 39.684039
 Longitude: -108.140226
 Ground Level: 8104.0
 RKB @ 8134.0usft (30')

PROJECT DETAILS: Garfield 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 @ 8134.0usft (30')
 Section (VS) Reference: Slot - BJU M23A FED 21B-26 496(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8134.0usft (30')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3390.0	3559.1	Wasatch
5790.0	6106.3	Wasatch G
6090.0	6424.7	Fort Union
8074.0	8503.8	Ohio Creek
8074.0	8503.8	TOG
8419.0	8848.9	William Fork
11372.0	11802.8	Cameo
11872.0	12303.0	Rollins

SECTION DETAILS

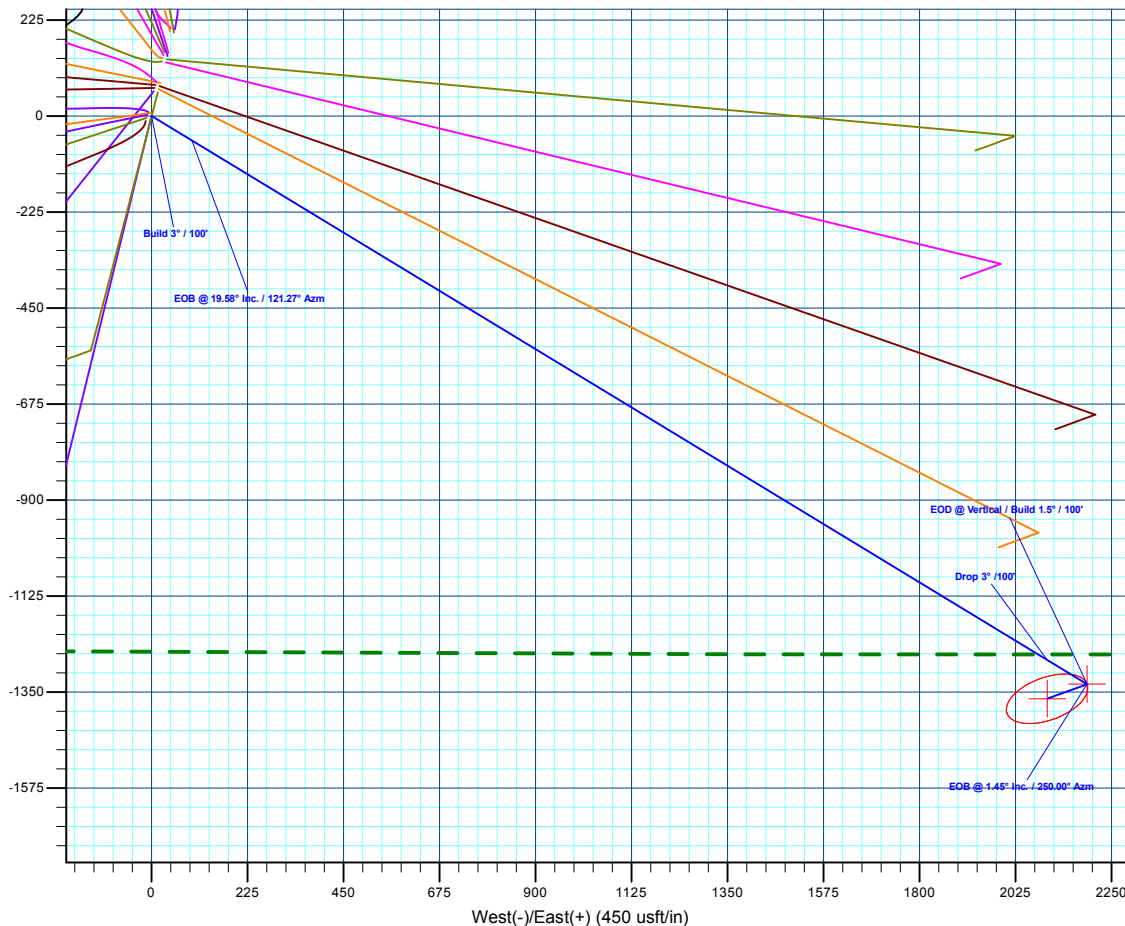
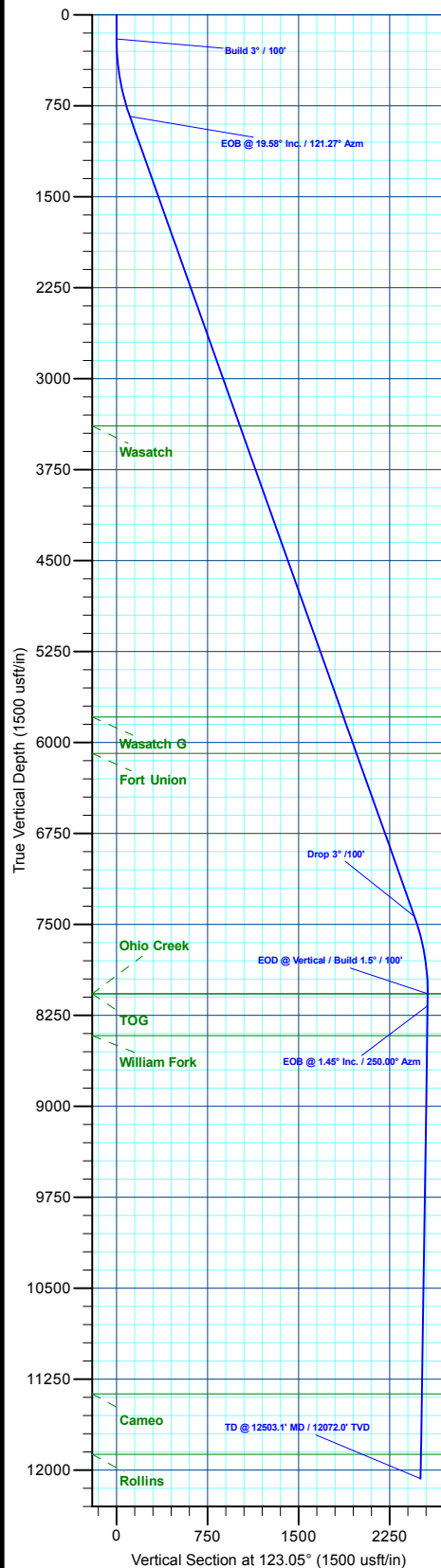
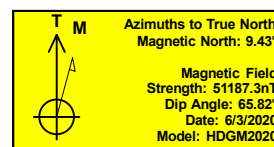
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
852.5	19.58	121.27	839.9	-57.3	94.4	3.00	121.27	110.3	EOB @ 19.58° Inc. / 121.27° Azm
7851.3	19.58	121.27	7434.1	-1274.5	2098.7	0.00	0.00	2454.2	Drop 3° / 100'
8503.8	0.00	0.00	8074.0	-1331.8	2193.1	3.00	180.00	2564.6	EOD @ Vertical / Build 1.5° / 100'
8600.5	1.45	250.00	8170.7	-1332.2	2191.9	1.50	250.00	2563.8	EOB @ 1.45° Inc. / 250.00° Azm
12503.1	1.45	250.00	12072.0	-1366.0	2099.1	0.00	0.00	2504.5	TD @ 12503.1' MD / 12072.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 21B-26	8074.0	-1331.8	2193.1	14422562.88	2447295.73	39.680384	-108.132438
PBHL - 21B-26	12072.0	-1366.0	2099.1	14422525.70	2447202.90	39.680290	-108.132771

WELL DETAILS: BJU M23A FED 21B-26 496

	+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude
	0.0	0.0		14423824.10	2445061.30	39.684039	-108.140226



Plan: Design #1 (BJU M23A FED 21B-26 496/Wellbore #1)

Created By: Will Jircik Date: 11:22, June 05 2020



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 21B-26 496 - Slot BJU M23A FED 21B-26 496

Wellbore #1

Plan: Design #1

QES Well Planning Report

05 June, 2020



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 21B-26 496 - Slot BJU M23A FED 21B-26 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 21B-26 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Garfield 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	BJU M23A 496 Pad		
Site Position:		Northing:	14,424,028.50 usft
From:	Map	Easting:	2,445,109.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39.684596
		Longitude:	-108.140032
		Grid Convergence:	1.83 °

Well	BJU M23A FED 21B-26 496 - Slot BJU M23A FED 21B-26 496		
Well Position	+N/-S	-202.8 usft	Northing: 14,423,824.10 usft
	+E/-W	-54.8 usft	Easting: 2,445,061.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39.684039
			Longitude: -108.140227
			Ground Level: 8,104.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	6/3/2020	9.43	65.82	51,187.30000000

Design	Design #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	123.05

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
852.5	19.58	121.27	839.9	-57.3	94.4	3.00	3.00	0.00	121.27	
7,851.3	19.58	121.27	7,434.1	-1,274.5	2,098.7	0.00	0.00	0.00	0.00	
8,503.8	0.00	0.00	8,074.0	-1,331.8	2,193.1	3.00	-3.00	0.00	180.00	OHCR - 21B-26
8,600.5	1.45	250.00	8,170.7	-1,332.2	2,191.9	1.50	1.50	-113.77	250.00	
12,503.1	1.45	250.00	12,072.0	-1,366.0	2,099.1	0.00	0.00	0.00	0.00	PBHL - 21B-26

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 21B-26 496 - Slot BJU M23A FED 21B-26 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 21B-26 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
Build 3° / 100'									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	3.00	121.27	300.0	-1.4	2.2	2.6	3.00	3.00	0.00
400.0	6.00	121.27	399.6	-5.4	8.9	10.5	3.00	3.00	0.00
500.0	9.00	121.27	498.8	-12.2	20.1	23.5	3.00	3.00	0.00
600.0	12.00	121.27	597.1	-21.7	35.7	41.7	3.00	3.00	0.00
700.0	15.00	121.27	694.3	-33.8	55.6	65.0	3.00	3.00	0.00
800.0	18.00	121.27	790.2	-48.5	79.9	93.4	3.00	3.00	0.00
EOB @ 19.58° Inc. / 121.27° Azm									
852.5	19.58	121.27	839.9	-57.3	94.4	110.3	3.00	3.00	0.00
900.0	19.58	121.27	884.6	-65.6	108.0	126.2	0.00	0.00	0.00
1,000.0	19.58	121.27	978.9	-82.9	136.6	159.7	0.00	0.00	0.00
1,100.0	19.58	121.27	1,073.1	-100.3	165.2	193.2	0.00	0.00	0.00
1,200.0	19.58	121.27	1,167.3	-117.7	193.9	226.7	0.00	0.00	0.00
1,300.0	19.58	121.27	1,261.5	-135.1	222.5	260.2	0.00	0.00	0.00
1,400.0	19.58	121.27	1,355.7	-152.5	251.1	293.7	0.00	0.00	0.00
1,500.0	19.58	121.27	1,450.0	-169.9	279.8	327.2	0.00	0.00	0.00
1,600.0	19.58	121.27	1,544.2	-187.3	308.4	360.7	0.00	0.00	0.00
1,700.0	19.58	121.27	1,638.4	-204.7	337.1	394.2	0.00	0.00	0.00
1,800.0	19.58	121.27	1,732.6	-222.1	365.7	427.6	0.00	0.00	0.00
1,900.0	19.58	121.27	1,826.8	-239.5	394.3	461.1	0.00	0.00	0.00
2,000.0	19.58	121.27	1,921.0	-256.9	423.0	494.6	0.00	0.00	0.00
2,100.0	19.58	121.27	2,015.3	-274.3	451.6	528.1	0.00	0.00	0.00
2,200.0	19.58	121.27	2,109.5	-291.7	480.3	561.6	0.00	0.00	0.00
2,300.0	19.58	121.27	2,203.7	-309.0	508.9	595.1	0.00	0.00	0.00
2,400.0	19.58	121.27	2,297.9	-326.4	537.5	628.6	0.00	0.00	0.00
2,500.0	19.58	121.27	2,392.1	-343.8	566.2	662.1	0.00	0.00	0.00
2,600.0	19.58	121.27	2,486.4	-361.2	594.8	695.6	0.00	0.00	0.00
2,700.0	19.58	121.27	2,580.6	-378.6	623.5	729.1	0.00	0.00	0.00
2,800.0	19.58	121.27	2,674.8	-396.0	652.1	762.5	0.00	0.00	0.00
2,900.0	19.58	121.27	2,769.0	-413.4	680.7	796.0	0.00	0.00	0.00
3,000.0	19.58	121.27	2,863.2	-430.8	709.4	829.5	0.00	0.00	0.00
3,100.0	19.58	121.27	2,957.5	-448.2	738.0	863.0	0.00	0.00	0.00
3,200.0	19.58	121.27	3,051.7	-465.6	766.6	896.5	0.00	0.00	0.00
3,300.0	19.58	121.27	3,145.9	-483.0	795.3	930.0	0.00	0.00	0.00
3,400.0	19.58	121.27	3,240.1	-500.4	823.9	963.5	0.00	0.00	0.00
3,500.0	19.58	121.27	3,334.3	-517.7	852.6	997.0	0.00	0.00	0.00
Wasatch									
3,559.1	19.58	121.27	3,390.0	-528.0	869.5	1,016.8	0.00	0.00	0.00
3,600.0	19.58	121.27	3,428.6	-535.1	881.2	1,030.5	0.00	0.00	0.00
3,700.0	19.58	121.27	3,522.8	-552.5	909.8	1,064.0	0.00	0.00	0.00
3,800.0	19.58	121.27	3,617.0	-569.9	938.5	1,097.4	0.00	0.00	0.00
3,900.0	19.58	121.27	3,711.2	-587.3	967.1	1,130.9	0.00	0.00	0.00
4,000.0	19.58	121.27	3,805.4	-604.7	995.8	1,164.4	0.00	0.00	0.00
4,100.0	19.58	121.27	3,899.7	-622.1	1,024.4	1,197.9	0.00	0.00	0.00
4,200.0	19.58	121.27	3,993.9	-639.5	1,053.0	1,231.4	0.00	0.00	0.00
4,300.0	19.58	121.27	4,088.1	-656.9	1,081.7	1,264.9	0.00	0.00	0.00
4,400.0	19.58	121.27	4,182.3	-674.3	1,110.3	1,298.4	0.00	0.00	0.00
4,500.0	19.58	121.27	4,276.5	-691.7	1,139.0	1,331.9	0.00	0.00	0.00
4,600.0	19.58	121.27	4,370.8	-709.1	1,167.6	1,365.4	0.00	0.00	0.00
4,700.0	19.58	121.27	4,465.0	-726.5	1,196.2	1,398.9	0.00	0.00	0.00

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Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 21B-26 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
4,800.0	19.58	121.27	4,559.2	-743.8	1,224.9	1,432.3	0.00	0.00	0.00
4,900.0	19.58	121.27	4,653.4	-761.2	1,253.5	1,465.8	0.00	0.00	0.00
5,000.0	19.58	121.27	4,747.6	-778.6	1,282.1	1,499.3	0.00	0.00	0.00
5,100.0	19.58	121.27	4,841.9	-796.0	1,310.8	1,532.8	0.00	0.00	0.00
5,200.0	19.58	121.27	4,936.1	-813.4	1,339.4	1,566.3	0.00	0.00	0.00
5,300.0	19.58	121.27	5,030.3	-830.8	1,368.1	1,599.8	0.00	0.00	0.00
5,400.0	19.58	121.27	5,124.5	-848.2	1,396.7	1,633.3	0.00	0.00	0.00
5,500.0	19.58	121.27	5,218.7	-865.6	1,425.3	1,666.8	0.00	0.00	0.00
5,600.0	19.58	121.27	5,313.0	-883.0	1,454.0	1,700.3	0.00	0.00	0.00
5,700.0	19.58	121.27	5,407.2	-900.4	1,482.6	1,733.8	0.00	0.00	0.00
5,800.0	19.58	121.27	5,501.4	-917.8	1,511.3	1,767.2	0.00	0.00	0.00
5,900.0	19.58	121.27	5,595.6	-935.2	1,539.9	1,800.7	0.00	0.00	0.00
6,000.0	19.58	121.27	5,689.8	-952.5	1,568.5	1,834.2	0.00	0.00	0.00
6,100.0	19.58	121.27	5,784.1	-969.9	1,597.2	1,867.7	0.00	0.00	0.00
Wasatch G									
6,106.3	19.58	121.27	5,790.0	-971.0	1,599.0	1,869.8	0.00	0.00	0.00
6,200.0	19.58	121.27	5,878.3	-987.3	1,625.8	1,901.2	0.00	0.00	0.00
6,300.0	19.58	121.27	5,972.5	-1,004.7	1,654.5	1,934.7	0.00	0.00	0.00
6,400.0	19.58	121.27	6,066.7	-1,022.1	1,683.1	1,968.2	0.00	0.00	0.00
Fort Union									
6,424.7	19.58	121.27	6,090.0	-1,026.4	1,690.2	1,976.5	0.00	0.00	0.00
6,500.0	19.58	121.27	6,160.9	-1,039.5	1,711.7	2,001.7	0.00	0.00	0.00
6,600.0	19.58	121.27	6,255.2	-1,056.9	1,740.4	2,035.2	0.00	0.00	0.00
6,700.0	19.58	121.27	6,349.4	-1,074.3	1,769.0	2,068.7	0.00	0.00	0.00
6,800.0	19.58	121.27	6,443.6	-1,091.7	1,797.7	2,102.1	0.00	0.00	0.00
6,900.0	19.58	121.27	6,537.8	-1,109.1	1,826.3	2,135.6	0.00	0.00	0.00
7,000.0	19.58	121.27	6,632.0	-1,126.5	1,854.9	2,169.1	0.00	0.00	0.00
7,100.0	19.58	121.27	6,726.2	-1,143.9	1,883.6	2,202.6	0.00	0.00	0.00
7,200.0	19.58	121.27	6,820.5	-1,161.3	1,912.2	2,236.1	0.00	0.00	0.00
7,300.0	19.58	121.27	6,914.7	-1,178.6	1,940.8	2,269.6	0.00	0.00	0.00
7,400.0	19.58	121.27	7,008.9	-1,196.0	1,969.5	2,303.1	0.00	0.00	0.00
7,500.0	19.58	121.27	7,103.1	-1,213.4	1,998.1	2,336.6	0.00	0.00	0.00
7,600.0	19.58	121.27	7,197.3	-1,230.8	2,026.8	2,370.1	0.00	0.00	0.00
7,700.0	19.58	121.27	7,291.6	-1,248.2	2,055.4	2,403.6	0.00	0.00	0.00
7,800.0	19.58	121.27	7,385.8	-1,265.6	2,084.0	2,437.0	0.00	0.00	0.00
Drop 3° /100'									
7,851.3	19.58	121.27	7,434.1	-1,274.5	2,098.7	2,454.2	0.00	0.00	0.00
7,900.0	18.11	121.27	7,480.2	-1,282.7	2,112.2	2,470.0	3.00	-3.00	0.00
8,000.0	15.11	121.27	7,576.0	-1,297.5	2,136.6	2,498.5	3.00	-3.00	0.00
8,100.0	12.11	121.27	7,673.2	-1,309.7	2,156.7	2,522.1	3.00	-3.00	0.00
8,200.0	9.11	121.27	7,771.5	-1,319.3	2,172.5	2,540.5	3.00	-3.00	0.00
8,300.0	6.11	121.27	7,870.6	-1,326.2	2,183.8	2,553.7	3.00	-3.00	0.00
8,400.0	3.11	121.27	7,970.3	-1,330.4	2,190.7	2,561.7	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
8,503.8	0.00	0.00	8,074.0	-1,331.8	2,193.1	2,564.6	3.00	-3.00	0.00
EOB @ 1.45° Inc. / 250.00° Azm									
8,600.5	1.45	250.00	8,170.7	-1,332.2	2,191.9	2,563.8	1.50	1.50	0.00
8,700.0	1.45	250.00	8,270.2	-1,333.1	2,189.6	2,562.3	0.00	0.00	0.00
8,800.0	1.45	250.00	8,370.1	-1,334.0	2,187.2	2,560.8	0.00	0.00	0.00
William Fork									
8,848.9	1.45	250.00	8,419.0	-1,334.4	2,186.0	2,560.0	0.00	0.00	0.00
8,900.0	1.45	250.00	8,470.1	-1,334.8	2,184.8	2,559.3	0.00	0.00	0.00

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Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 21B-26 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
9,000.0	1.45	250.00	8,570.1	-1,335.7	2,182.4	2,557.7	0.00	0.00	0.00
9,100.0	1.45	250.00	8,670.0	-1,336.6	2,180.1	2,556.2	0.00	0.00	0.00
9,200.0	1.45	250.00	8,770.0	-1,337.4	2,177.7	2,554.7	0.00	0.00	0.00
9,300.0	1.45	250.00	8,870.0	-1,338.3	2,175.3	2,553.2	0.00	0.00	0.00
9,400.0	1.45	250.00	8,969.9	-1,339.2	2,172.9	2,551.7	0.00	0.00	0.00
9,500.0	1.45	250.00	9,069.9	-1,340.0	2,170.5	2,550.1	0.00	0.00	0.00
9,600.0	1.45	250.00	9,169.9	-1,340.9	2,168.2	2,548.6	0.00	0.00	0.00
9,700.0	1.45	250.00	9,269.8	-1,341.8	2,165.8	2,547.1	0.00	0.00	0.00
9,800.0	1.45	250.00	9,369.8	-1,342.6	2,163.4	2,545.6	0.00	0.00	0.00
9,900.0	1.45	250.00	9,469.8	-1,343.5	2,161.0	2,544.1	0.00	0.00	0.00
10,000.0	1.45	250.00	9,569.7	-1,344.4	2,158.6	2,542.5	0.00	0.00	0.00
10,100.0	1.45	250.00	9,669.7	-1,345.2	2,156.3	2,541.0	0.00	0.00	0.00
10,200.0	1.45	250.00	9,769.7	-1,346.1	2,153.9	2,539.5	0.00	0.00	0.00
10,300.0	1.45	250.00	9,869.6	-1,347.0	2,151.5	2,538.0	0.00	0.00	0.00
10,400.0	1.45	250.00	9,969.6	-1,347.8	2,149.1	2,536.4	0.00	0.00	0.00
10,500.0	1.45	250.00	10,069.6	-1,348.7	2,146.8	2,534.9	0.00	0.00	0.00
10,600.0	1.45	250.00	10,169.5	-1,349.5	2,144.4	2,533.4	0.00	0.00	0.00
10,700.0	1.45	250.00	10,269.5	-1,350.4	2,142.0	2,531.9	0.00	0.00	0.00
10,800.0	1.45	250.00	10,369.5	-1,351.3	2,139.6	2,530.4	0.00	0.00	0.00
10,900.0	1.45	250.00	10,469.5	-1,352.1	2,137.2	2,528.8	0.00	0.00	0.00
11,000.0	1.45	250.00	10,569.4	-1,353.0	2,134.9	2,527.3	0.00	0.00	0.00
11,100.0	1.45	250.00	10,669.4	-1,353.9	2,132.5	2,525.8	0.00	0.00	0.00
11,200.0	1.45	250.00	10,769.4	-1,354.7	2,130.1	2,524.3	0.00	0.00	0.00
11,300.0	1.45	250.00	10,869.3	-1,355.6	2,127.7	2,522.8	0.00	0.00	0.00
11,400.0	1.45	250.00	10,969.3	-1,356.5	2,125.3	2,521.2	0.00	0.00	0.00
11,500.0	1.45	250.00	11,069.3	-1,357.3	2,123.0	2,519.7	0.00	0.00	0.00
11,600.0	1.45	250.00	11,169.2	-1,358.2	2,120.6	2,518.2	0.00	0.00	0.00
11,700.0	1.45	250.00	11,269.2	-1,359.1	2,118.2	2,516.7	0.00	0.00	0.00
11,800.0	1.45	250.00	11,369.2	-1,359.9	2,115.8	2,515.2	0.00	0.00	0.00
Cameo									
11,802.8	1.45	250.00	11,372.0	-1,360.0	2,115.8	2,515.1	0.00	0.00	0.00
11,900.0	1.45	250.00	11,469.1	-1,360.8	2,113.5	2,513.6	0.00	0.00	0.00
12,000.0	1.45	250.00	11,569.1	-1,361.7	2,111.1	2,512.1	0.00	0.00	0.00
12,100.0	1.45	250.00	11,669.1	-1,362.5	2,108.7	2,510.6	0.00	0.00	0.00
12,200.0	1.45	250.00	11,769.0	-1,363.4	2,106.3	2,509.1	0.00	0.00	0.00
12,300.0	1.45	250.00	11,869.0	-1,364.3	2,103.9	2,507.5	0.00	0.00	0.00
Rollins									
12,303.0	1.45	250.00	11,872.0	-1,364.3	2,103.9	2,507.5	0.00	0.00	0.00
12,400.0	1.45	250.00	11,969.0	-1,365.1	2,101.6	2,506.0	0.00	0.00	0.00
TD @ 12503.1' MD / 12072.0' TVD									
12,503.1	1.45	250.00	12,072.0	-1,366.0	2,099.1	2,504.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 21B-26 496 - Slot BJU M23A FED 21B-26 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 21B-26 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
OHCR - 21B-26 - plan hits target center - Point	0.00	0.00	8,074.0	-1,331.8	2,193.1	14,422,562.88	2,447,295.73	39.680384	-108.132438
PBHL - 21B-26 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,072.0	-1,366.0	2,099.1	14,422,525.70	2,447,202.90	39.680290	-108.132772

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,559.1	3,390.0	Wasatch			
6,106.3	5,790.0	Wasatch G			
6,424.7	6,090.0	Fort Union			
8,503.8	8,074.0	Ohio Creek			
8,503.8	8,074.0	TOG			
8,848.9	8,419.0	William Fork			
11,802.8	11,372.0	Cameo			
12,303.0	11,872.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.0	200.0	0.0	0.0	Build 3° / 100'
852.5	839.9	-57.3	94.4	EOB @ 19.58° Inc. / 121.27° Azm
7,851.3	7,434.1	-1,274.5	2,098.7	Drop 3° / 100'
8,503.8	8,074.0	-1,331.8	2,193.1	EOD @ Vertical / Build 1.5° / 100'
8,600.5	8,170.7	-1,332.2	2,191.9	EOB @ 1.45° Inc. / 250.00° Azm
12,503.1	12,072.0	-1,366.0	2,099.1	TD @ 12503.1' MD / 12072.0' TVD