

Project: Garfield County, CO
 Site: NPM M33 496 Pad
 Well: BJU M33 FED 25A-33 496
 Wellbore: Wellbore #1
 Design: Design #1
 Latitude: 39.653408
 Longitude: -108.177799
 Ground Level: 8401.0
 RKB @ 8431.0usft (H&P #329)

FORMATION TOP DETAILS		
TVDPATH	MDPATH	FORMATION
2440.0	2541.9	Wasatch
5440.0	5726.5	Wasatch G
5690.0	5991.9	Fort Union
7532.0	7920.5	Ohio Creek
7769.0	8157.6	TOG
7769.0	8157.6	Williams Fork
10370.0	10759.6	Cameo
11028.0	11417.8	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well BJU M33 FED 25A-33 496 - Slot BJU M33 FED 25A-33 496, True North
 Vertical (TVD) Reference: RKB @ 8431.0usft (H&P #329)
 Section (VS) Reference: Slot - BJU M33 FED 25A-33 496(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8431.0usft (H&P #329)
 Calculation Method: Minimum Curvature

WELL DETAILS: BJU M33 FED 25A-33 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14412333.20	2434839.10	39.653408	-108.177799

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

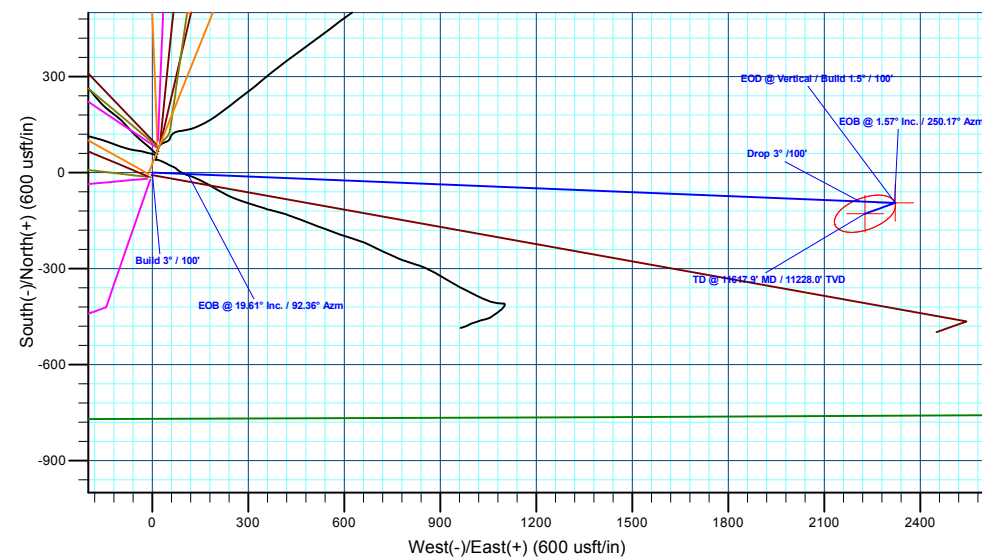
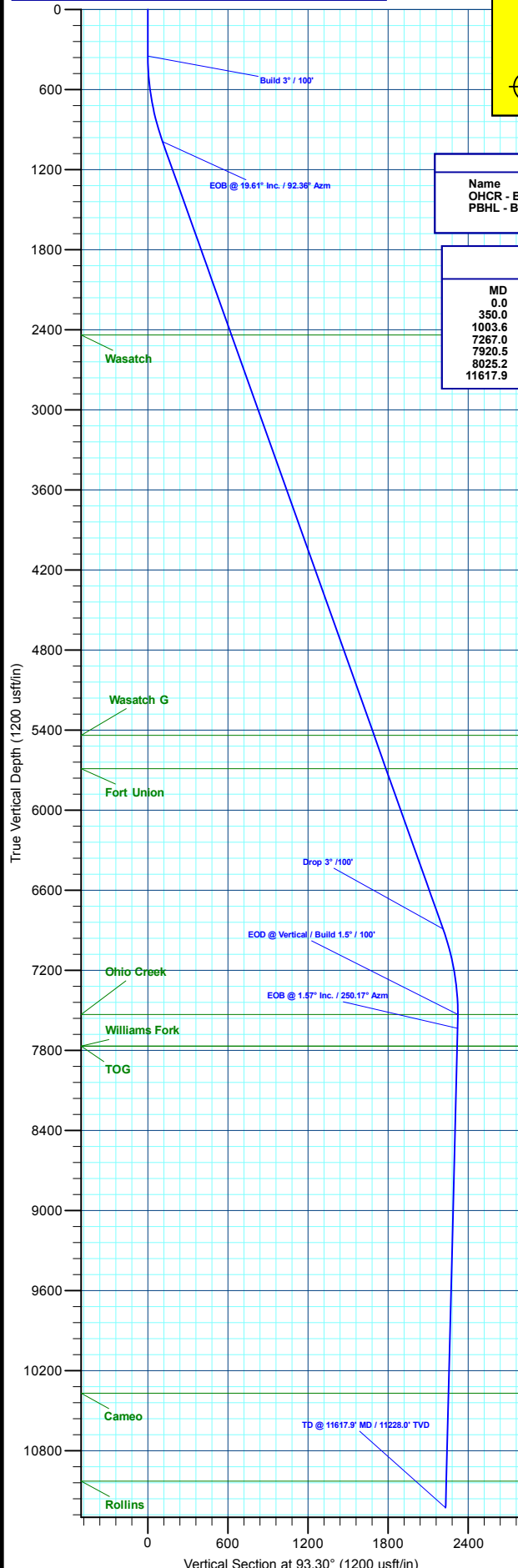
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - BJU M33 FED 25A-33 496	7532.0	-94.6	2321.3	14412311.68	2437162.25	39.653148	-108.169558
PBHL - BJU M33 FED 25A-33 496	11228.0	-128.5	2227.4	14412274.80	2437069.40	39.653055	-108.169891

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1003.6	19.61	92.33	990.9	-4.5	110.6	3.00	92.33	110.7	EOB @ 19.61° Inc. / 92.36° Azm
7267.0	19.61	92.33	6891.1	-90.1	2210.7	0.00	0.00	0.00	Drop 3° / 100'
7920.5	0.00	0.00	7532.0	-94.6	2321.3	3.00	180.00	2322.9	EOD @ Vertical / Build 1.5° / 100'
8025.2	1.57	250.14	7636.7	-95.0	2320.0	1.50	250.14	2321.6	EOB @ 1.57° Inc. / 250.17° Azm
11617.9	1.57	250.14	11228.0	-128.5	2227.4	0.00	0.00	2231.1	TD @ 11617.9' MD / 11228.0' TVD

T M
 Azimuths to True North
 Magnetic North: 9.48°
 Magnetic Field
 Strength: 51259.3nT
 Dip Angle: 65.82°
 Date: 12/11/2019
 Model: HDGM_FILE



Plan: Design #1 (BJU M33 FED 25A-33 496/Wellbore #1)

Created By: Will Jircik

Date: 16:51, December 16 2019



Caerus Oil & Gas

Garfield County, CO

NPM M33 496 Pad

BJU M33 FED 25A-33 496 - Slot BJU M33 FED 25A-33 496

Wellbore #1

Plan: Design #1

QES Well Planning Report

16 December, 2019



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25A-33 496 - Slot BJU M33 FED 25A-33 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8431.0usft (H&P #329)
Project:	Garfield County, CO	MD Reference:	RKB @ 8431.0usft (H&P #329)
Site:	NPM M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 25A-33 496	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	NPM M33 496 Pad				
Site Position:		Northing:	14,415,354.00 usft	Latitude:	39.660635
From:	Map	Easting:	2,447,010.80 usft	Longitude:	-108.134267
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.83 °

Well	BJU M33 FED 25A-33 496 - Slot BJU M33 FED 25A-33 496					
Well Position	+N/-S	-2,630.6 usft	Northing:	14,412,333.20 usft	Latitude:	39.653408
	+E/-W	-12,262.0 usft	Easting:	2,434,839.10 usft	Longitude:	-108.177799
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,401.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/11/2019	9.48	65.82	51,259.30000000

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	93.30

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		
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00		
1,003.6	19.61	92.33	990.9	-4.5	110.6	3.00	3.00	0.00	92.33		
7,267.0	19.61	92.33	6,891.1	-90.1	2,210.7	0.00	0.00	0.00	0.00		
7,920.5	0.00	0.00	7,532.0	-94.6	2,321.3	3.00	-3.00	0.00	180.00	OHCR - BJU M33 F	
8,025.2	1.57	250.14	7,636.7	-95.0	2,320.0	1.50	1.50	-104.92	250.14		
11,617.9	1.57	250.14	11,228.0	-128.5	2,227.4	0.00	0.00	0.00	0.00	PBHL - BJU M33 FI	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25A-33 496 - Slot BJU M33 FED 25A-33 496
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Project:	Garfield County, CO	MD Reference:	RKB @ 8431.0usft (H&P #329)
Site:	NPM M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 25A-33 496	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
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
Build 3° / 100'									
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.50	92.33	400.0	0.0	0.7	0.7	3.00	3.00	0.00
500.0	4.50	92.33	499.8	-0.2	5.9	5.9	3.00	3.00	0.00
600.0	7.50	92.33	599.3	-0.7	16.3	16.3	3.00	3.00	0.00
700.0	10.50	92.33	698.0	-1.3	32.0	32.0	3.00	3.00	0.00
800.0	13.50	92.33	795.8	-2.1	52.7	52.8	3.00	3.00	0.00
900.0	16.50	92.33	892.4	-3.2	78.6	78.6	3.00	3.00	0.00
EOB @ 19.61° Inc. / 92.36° Azm									
1,003.6	19.61	92.33	990.9	-4.5	110.6	110.7	3.00	3.00	0.00
1,100.0	19.61	92.33	1,081.7	-5.8	143.0	143.1	0.00	0.00	0.00
1,200.0	19.61	92.33	1,175.9	-7.2	176.5	176.6	0.00	0.00	0.00
1,300.0	19.61	92.33	1,270.1	-8.6	210.0	210.2	0.00	0.00	0.00
1,400.0	19.61	92.33	1,364.3	-9.9	243.6	243.7	0.00	0.00	0.00
1,500.0	19.61	92.33	1,458.5	-11.3	277.1	277.3	0.00	0.00	0.00
1,600.0	19.61	92.33	1,552.7	-12.7	310.6	310.8	0.00	0.00	0.00
1,700.0	19.61	92.33	1,646.9	-14.0	344.2	344.4	0.00	0.00	0.00
1,800.0	19.61	92.33	1,741.1	-15.4	377.7	377.9	0.00	0.00	0.00
1,900.0	19.61	92.33	1,835.3	-16.8	411.2	411.5	0.00	0.00	0.00
2,000.0	19.61	92.33	1,929.5	-18.1	444.7	445.0	0.00	0.00	0.00
2,100.0	19.61	92.33	2,023.7	-19.5	478.3	478.6	0.00	0.00	0.00
2,200.0	19.61	92.33	2,117.9	-20.8	511.8	512.1	0.00	0.00	0.00
2,300.0	19.61	92.33	2,212.1	-22.2	545.3	545.7	0.00	0.00	0.00
2,400.0	19.61	92.33	2,306.3	-23.6	578.9	579.2	0.00	0.00	0.00
2,500.0	19.61	92.33	2,400.6	-24.9	612.4	612.8	0.00	0.00	0.00
Wasatch									
2,541.9	19.61	92.33	2,440.0	-25.5	626.4	626.9	0.00	0.00	0.00
2,600.0	19.61	92.33	2,494.8	-26.3	645.9	646.4	0.00	0.00	0.00
2,700.0	19.61	92.33	2,589.0	-27.7	679.4	679.9	0.00	0.00	0.00
2,800.0	19.61	92.33	2,683.2	-29.0	713.0	713.5	0.00	0.00	0.00
2,900.0	19.61	92.33	2,777.4	-30.4	746.5	747.0	0.00	0.00	0.00
3,000.0	19.61	92.33	2,871.6	-31.8	780.0	780.6	0.00	0.00	0.00
3,100.0	19.61	92.33	2,965.8	-33.1	813.6	814.1	0.00	0.00	0.00
3,200.0	19.61	92.33	3,060.0	-34.5	847.1	847.7	0.00	0.00	0.00
3,300.0	19.61	92.33	3,154.2	-35.9	880.6	881.2	0.00	0.00	0.00
3,400.0	19.61	92.33	3,248.4	-37.2	914.1	914.8	0.00	0.00	0.00
3,500.0	19.61	92.33	3,342.6	-38.6	947.7	948.3	0.00	0.00	0.00
3,600.0	19.61	92.33	3,436.8	-40.0	981.2	981.9	0.00	0.00	0.00
3,700.0	19.61	92.33	3,531.0	-41.3	1,014.7	1,015.4	0.00	0.00	0.00
3,800.0	19.61	92.33	3,625.2	-42.7	1,048.3	1,049.0	0.00	0.00	0.00
3,900.0	19.61	92.33	3,719.4	-44.1	1,081.8	1,082.5	0.00	0.00	0.00
4,000.0	19.61	92.33	3,813.6	-45.4	1,115.3	1,116.1	0.00	0.00	0.00
4,100.0	19.61	92.33	3,907.8	-46.8	1,148.8	1,149.6	0.00	0.00	0.00
4,200.0	19.61	92.33	4,002.0	-48.2	1,182.4	1,183.2	0.00	0.00	0.00
4,300.0	19.61	92.33	4,096.2	-49.5	1,215.9	1,216.7	0.00	0.00	0.00
4,400.0	19.61	92.33	4,190.4	-50.9	1,249.4	1,250.3	0.00	0.00	0.00
4,500.0	19.61	92.33	4,284.6	-52.3	1,283.0	1,283.8	0.00	0.00	0.00
4,600.0	19.61	92.33	4,378.8	-53.6	1,316.5	1,317.4	0.00	0.00	0.00
4,700.0	19.61	92.33	4,473.0	-55.0	1,350.0	1,350.9	0.00	0.00	0.00

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Project:	Garfield County, CO	MD Reference:	RKB @ 8431.0usft (H&P #329)
Site:	NPM M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 25A-33 496	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	19.61	92.33	4,567.2	-56.4	1,383.5	1,384.5	0.00	0.00	0.00
4,900.0	19.61	92.33	4,661.4	-57.7	1,417.1	1,418.0	0.00	0.00	0.00
5,000.0	19.61	92.33	4,755.6	-59.1	1,450.6	1,451.6	0.00	0.00	0.00
5,100.0	19.61	92.33	4,849.8	-60.5	1,484.1	1,485.1	0.00	0.00	0.00
5,200.0	19.61	92.33	4,944.0	-61.8	1,517.7	1,518.7	0.00	0.00	0.00
5,300.0	19.61	92.33	5,038.2	-63.2	1,551.2	1,552.2	0.00	0.00	0.00
5,400.0	19.61	92.33	5,132.4	-64.6	1,584.7	1,585.8	0.00	0.00	0.00
5,500.0	19.61	92.33	5,226.6	-65.9	1,618.2	1,619.3	0.00	0.00	0.00
5,600.0	19.61	92.33	5,320.8	-67.3	1,651.8	1,652.9	0.00	0.00	0.00
5,700.0	19.61	92.33	5,415.0	-68.7	1,685.3	1,686.5	0.00	0.00	0.00
Wasatch G									
5,726.5	19.61	92.33	5,440.0	-69.0	1,694.2	1,695.4	0.00	0.00	0.00
5,800.0	19.61	92.33	5,509.2	-70.0	1,718.8	1,720.0	0.00	0.00	0.00
5,900.0	19.61	92.33	5,603.4	-71.4	1,752.4	1,753.6	0.00	0.00	0.00
Fort Union									
5,991.9	19.61	92.33	5,690.0	-72.6	1,783.2	1,784.4	0.00	0.00	0.00
6,000.0	19.61	92.33	5,697.6	-72.7	1,785.9	1,787.1	0.00	0.00	0.00
6,100.0	19.61	92.33	5,791.8	-74.1	1,819.4	1,820.7	0.00	0.00	0.00
6,200.0	19.61	92.33	5,886.0	-75.5	1,852.9	1,854.2	0.00	0.00	0.00
6,300.0	19.61	92.33	5,980.2	-76.8	1,886.5	1,887.8	0.00	0.00	0.00
6,400.0	19.61	92.33	6,074.4	-78.2	1,920.0	1,921.3	0.00	0.00	0.00
6,500.0	19.61	92.33	6,168.6	-79.6	1,953.5	1,954.9	0.00	0.00	0.00
6,600.0	19.61	92.33	6,262.8	-80.9	1,987.1	1,988.4	0.00	0.00	0.00
6,700.0	19.61	92.33	6,357.0	-82.3	2,020.6	2,022.0	0.00	0.00	0.00
6,800.0	19.61	92.33	6,451.2	-83.7	2,054.1	2,055.5	0.00	0.00	0.00
6,900.0	19.61	92.33	6,545.4	-85.0	2,087.6	2,089.1	0.00	0.00	0.00
7,000.0	19.61	92.33	6,639.6	-86.4	2,121.2	2,122.6	0.00	0.00	0.00
7,100.0	19.61	92.33	6,733.8	-87.8	2,154.7	2,156.2	0.00	0.00	0.00
7,200.0	19.61	92.33	6,828.0	-89.1	2,188.2	2,189.7	0.00	0.00	0.00
Drop 3° /100'									
7,267.0	19.61	92.33	6,891.1	-90.1	2,210.7	2,212.2	0.00	0.00	0.00
7,300.0	18.62	92.33	6,922.3	-90.5	2,221.5	2,223.0	3.00	-3.00	0.00
7,400.0	15.62	92.33	7,017.9	-91.7	2,250.9	2,252.4	3.00	-3.00	0.00
7,500.0	12.62	92.33	7,114.9	-92.7	2,275.3	2,276.8	3.00	-3.00	0.00
7,600.0	9.62	92.33	7,213.0	-93.5	2,294.5	2,296.1	3.00	-3.00	0.00
7,700.0	6.62	92.33	7,312.0	-94.0	2,308.6	2,310.2	3.00	-3.00	0.00
7,800.0	3.62	92.33	7,411.5	-94.4	2,317.5	2,319.1	3.00	-3.00	0.00
7,900.0	0.62	92.33	7,511.5	-94.6	2,321.2	2,322.8	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
7,920.5	0.00	0.00	7,532.0	-94.6	2,321.3	2,322.9	3.00	-3.00	0.00
8,000.0	1.19	250.14	7,611.5	-94.8	2,320.5	2,322.2	1.50	1.50	0.00
EOB @ 1.57° Inc. / 250.17° Azm									
8,025.2	1.57	250.14	7,636.7	-95.0	2,320.0	2,321.6	1.50	1.50	0.00
8,100.0	1.57	250.14	7,711.4	-95.7	2,318.0	2,319.7	0.00	0.00	0.00
Williams Fork - TOG									
8,157.6	1.57	250.14	7,769.0	-96.3	2,316.6	2,318.3	0.00	0.00	0.00
8,200.0	1.57	250.14	7,811.4	-96.7	2,315.5	2,317.2	0.00	0.00	0.00
8,300.0	1.57	250.14	7,911.4	-97.6	2,312.9	2,314.7	0.00	0.00	0.00
8,400.0	1.57	250.14	8,011.3	-98.5	2,310.3	2,312.2	0.00	0.00	0.00
8,500.0	1.57	250.14	8,111.3	-99.5	2,307.7	2,309.6	0.00	0.00	0.00
8,600.0	1.57	250.14	8,211.2	-100.4	2,305.2	2,307.1	0.00	0.00	0.00
8,700.0	1.57	250.14	8,311.2	-101.3	2,302.6	2,304.6	0.00	0.00	0.00

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Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8431.0usft (H&P #329)
Project:	Garfield County, CO	MD Reference:	RKB @ 8431.0usft (H&P #329)
Site:	NPM M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 25A-33 496	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)
8,800.0	1.57	250.14	8,411.2	-102.3	2,300.0	2,302.1	0.00	0.00	0.00
8,900.0	1.57	250.14	8,511.1	-103.2	2,297.4	2,299.6	0.00	0.00	0.00
9,000.0	1.57	250.14	8,611.1	-104.1	2,294.8	2,297.0	0.00	0.00	0.00
9,100.0	1.57	250.14	8,711.1	-105.1	2,292.3	2,294.5	0.00	0.00	0.00
9,200.0	1.57	250.14	8,811.0	-106.0	2,289.7	2,292.0	0.00	0.00	0.00
9,300.0	1.57	250.14	8,911.0	-106.9	2,287.1	2,289.5	0.00	0.00	0.00
9,400.0	1.57	250.14	9,010.9	-107.8	2,284.5	2,287.0	0.00	0.00	0.00
9,500.0	1.57	250.14	9,110.9	-108.8	2,282.0	2,284.4	0.00	0.00	0.00
9,600.0	1.57	250.14	9,210.9	-109.7	2,279.4	2,281.9	0.00	0.00	0.00
9,700.0	1.57	250.14	9,310.8	-110.6	2,276.8	2,279.4	0.00	0.00	0.00
9,800.0	1.57	250.14	9,410.8	-111.6	2,274.2	2,276.9	0.00	0.00	0.00
9,900.0	1.57	250.14	9,510.8	-112.5	2,271.6	2,274.4	0.00	0.00	0.00
10,000.0	1.57	250.14	9,610.7	-113.4	2,269.1	2,271.8	0.00	0.00	0.00
10,100.0	1.57	250.14	9,710.7	-114.4	2,266.5	2,269.3	0.00	0.00	0.00
10,200.0	1.57	250.14	9,810.6	-115.3	2,263.9	2,266.8	0.00	0.00	0.00
10,300.0	1.57	250.14	9,910.6	-116.2	2,261.3	2,264.3	0.00	0.00	0.00
10,400.0	1.57	250.14	10,010.6	-117.2	2,258.8	2,261.8	0.00	0.00	0.00
10,500.0	1.57	250.14	10,110.5	-118.1	2,256.2	2,259.2	0.00	0.00	0.00
10,600.0	1.57	250.14	10,210.5	-119.0	2,253.6	2,256.7	0.00	0.00	0.00
10,700.0	1.57	250.14	10,310.5	-120.0	2,251.0	2,254.2	0.00	0.00	0.00
Cameo									
10,759.6	1.57	250.14	10,370.0	-120.5	2,249.5	2,252.7	0.00	0.00	0.00
10,800.0	1.57	250.14	10,410.4	-120.9	2,248.4	2,251.7	0.00	0.00	0.00
10,900.0	1.57	250.14	10,510.4	-121.8	2,245.9	2,249.2	0.00	0.00	0.00
11,000.0	1.57	250.14	10,610.3	-122.7	2,243.3	2,246.6	0.00	0.00	0.00
11,100.0	1.57	250.14	10,710.3	-123.7	2,240.7	2,244.1	0.00	0.00	0.00
11,200.0	1.57	250.14	10,810.3	-124.6	2,238.1	2,241.6	0.00	0.00	0.00
11,300.0	1.57	250.14	10,910.2	-125.5	2,235.6	2,239.1	0.00	0.00	0.00
11,400.0	1.57	250.14	11,010.2	-126.5	2,233.0	2,236.6	0.00	0.00	0.00
Rollins									
11,417.8	1.57	250.14	11,028.0	-126.6	2,232.5	2,236.1	0.00	0.00	0.00
11,500.0	1.57	250.14	11,110.2	-127.4	2,230.4	2,234.0	0.00	0.00	0.00
11,600.0	1.57	250.14	11,210.1	-128.3	2,227.8	2,231.5	0.00	0.00	0.00
TD @ 11617.9' MD / 11228.0' TVD									
11,617.9	1.57	250.14	11,228.0	-128.5	2,227.4	2,231.1	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
OHCR - BJU M33 FEI - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,532.0	-94.6	2,321.3	14,412,311.68	2,437,162.25	39.653148	-108.169558
PBHL - BJU M33 FED - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	11,228.0	-128.5	2,227.4	14,412,274.80	2,437,069.40	39.653055	-108.169892

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25A-33 496 - Slot BJU M33 FED 25A-33 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8431.0usft (H&P #329)
Project:	Garfield County, CO	MD Reference:	RKB @ 8431.0usft (H&P #329)
Site:	NPM M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 25A-33 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,541.9	2,440.0	Wasatch				
5,726.5	5,440.0	Wasatch G				
5,991.9	5,690.0	Fort Union				
7,920.5	7,532.0	Ohio Creek				
8,157.6	7,769.0	Williams Fork				
8,157.6	7,769.0	TOG				
10,759.6	10,370.0	Cameo				
11,417.8	11,028.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
350.0	350.0	0.0	0.0	Build 3° / 100'	
1,003.6	990.9	-4.5	110.6	EOB @ 19.61° Inc. / 92.36° Azm	
7,267.0	6,891.1	-90.1	2,210.7	Drop 3° / 100'	
7,920.5	7,532.0	-94.6	2,321.3	EOD @ Vertical / Build 1.5° / 100'	
8,025.2	7,636.7	-95.0	2,320.0	EOB @ 1.57° Inc. / 250.17° Azm	
11,617.9	11,228.0	-128.5	2,227.4	TD @ 11617.9' MD / 11228.0' TVD	