

Project: Garfield County, CO
 Site: BJU M33 496 Pad
 Well: BJU M33 FED 24B-32 496
 Wellbore: Wellbore #1
 Design: Design #4
 Latitude: 39.653408
 Longitude: -108.177799
 Ground Level: 8401.0
 RKB @ 8431.0usft (H&P #329)

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
2251.0	2366.4	Wasatch
5263.0	5616.2	Wasatch G
5543.0	5918.4	Fort Union
7395.0	7878.0	Ohio Creek
7650.0	8133.0	TOG
7650.0	8143.0	Williams Fork
10213.0	10696.9	Cameo
10854.0	11338.1	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well BJU M33 FED 24B-32 496 - Slot 24B-32, True North
 Vertical (TVD) Reference: RKB @ 8431.0usft (H&P #329)
 Section (VS) Reference: Slot - 24B-32(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8431.0usft (H&P #329)
 Calculation Method: Minimum Curvature

WELL DETAILS: BJU M33 FED 24B-32 496

+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

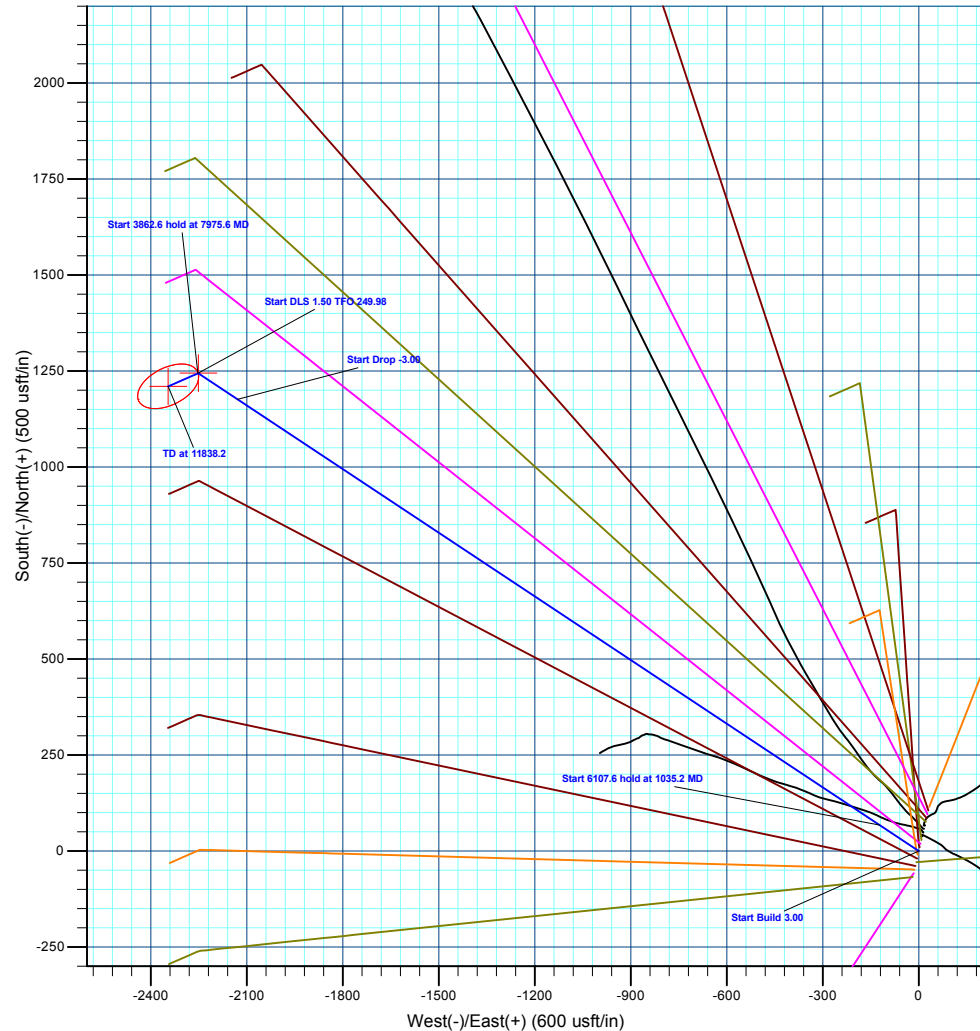
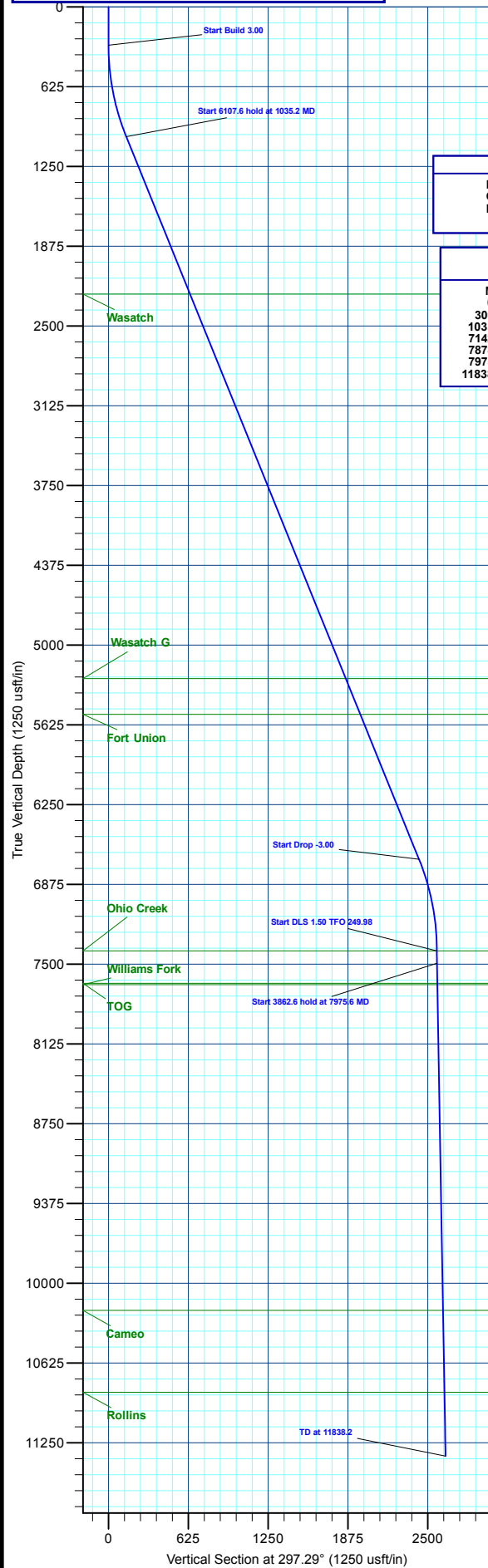
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 24B-32	7395.0	1244.6	-2251.8	14413506.38	2432549.23	39.656823	-108.185794
PBHL - 24B-32	11354.0	1210.4	-2345.8	14413469.20	2432456.40	39.656729	-108.186128

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	Start Build 3.00
1035.2	22.05	298.93	1017.1	67.6	-122.3	3.00	298.93	139.7	Start 6107.6 hold at 1035.2 MD
7142.8	22.05	298.93	6677.9	1177.0	-2129.5	0.00	0.00	2432.2	Start Drop -3.00
7878.0	0.00	0.00	7395.0	1244.6	-2251.8	3.00	180.00	2571.9	Start DLS 1.50 TFO 249.98
7975.6	1.46	249.98	7492.7	1244.2	-2253.0	1.50	249.98	2572.7	Start 3862.6 hold at 7975.6 MD
11838.2	1.46	249.98	11354.0	1210.4	-2345.8	0.00	0.00	2639.7	TD at 11838.2

Azimuths to True North
 Magnetic North: 9.48°

Magnetic Field
 Strength: 51259.6nT
 Dip Angle: 65.82°
 Date: 12/10/2019
 Model: HDGM_FILE



Plan: Design #4 (BJU M33 FED 24B-32 496/Wellbore #1)

Created By: Will Jircik Date: 9:18, November 19 2022



Caerus Oil & Gas

Garfield County, CO

BJU M33 496 Pad

BJU M33 FED 24B-32 496 - Slot 24B-32

Wellbore #1

Plan: Design #4

KLX Well Planning Report

19 November, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 24B-32 496 - Slot 24B-32
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:	BJU M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 24B-32 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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 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 24B-32 496 - Slot 24B-32					
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	12/10/2019	9.48	65.82	51,259.60000000

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	297.29

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,035.2	22.05	298.93	1,017.1	67.6	-122.3	3.00	3.00	0.00	298.93	
7,142.8	22.05	298.93	6,677.9	1,177.0	-2,129.5	0.00	0.00	0.00	0.00	
7,878.0	0.00	0.00	7,395.0	1,244.6	-2,251.8	3.00	-3.00	0.00	180.00	OHCR - 24B-32
7,975.6	1.46	249.98	7,492.7	1,244.2	-2,253.0	1.50	1.50	-112.66	249.98	
11,838.2	1.46	249.98	11,354.0	1,210.4	-2,345.8	0.00	0.00	0.00	0.00	PBHL - 24B-32

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 24B-32 496 - Slot 24B-32
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:	BJU M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 24B-32 496	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	
Start Build 3.00										
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	3.00	298.93	400.0	1.3	-2.3	2.6	3.00	3.00	0.00	
500.0	6.00	298.93	499.6	5.1	-9.2	10.5	3.00	3.00	0.00	
600.0	9.00	298.93	598.8	11.4	-20.6	23.5	3.00	3.00	0.00	
700.0	12.00	298.93	697.1	20.2	-36.5	41.7	3.00	3.00	0.00	
800.0	15.00	298.93	794.3	31.5	-57.0	65.1	3.00	3.00	0.00	
900.0	18.00	298.93	890.2	45.2	-81.8	93.4	3.00	3.00	0.00	
1,000.0	21.00	298.93	984.4	61.4	-111.0	126.8	3.00	3.00	0.00	
Start 6107.6 hold at 1035.2 MD										
1,035.2	22.05	298.93	1,017.1	67.6	-122.3	139.7	3.00	3.00	0.00	
1,100.0	22.05	298.93	1,077.2	79.4	-143.6	164.0	0.00	0.00	0.00	
1,200.0	22.05	298.93	1,169.9	97.5	-176.5	201.6	0.00	0.00	0.00	
1,300.0	22.05	298.93	1,262.6	115.7	-209.4	239.1	0.00	0.00	0.00	
1,400.0	22.05	298.93	1,355.3	133.9	-242.2	276.6	0.00	0.00	0.00	
1,500.0	22.05	298.93	1,448.0	152.0	-275.1	314.2	0.00	0.00	0.00	
1,600.0	22.05	298.93	1,540.6	170.2	-307.9	351.7	0.00	0.00	0.00	
1,700.0	22.05	298.93	1,633.3	188.4	-340.8	389.2	0.00	0.00	0.00	
1,800.0	22.05	298.93	1,726.0	206.5	-373.7	426.8	0.00	0.00	0.00	
1,900.0	22.05	298.93	1,818.7	224.7	-406.5	464.3	0.00	0.00	0.00	
2,000.0	22.05	298.93	1,911.4	242.9	-439.4	501.8	0.00	0.00	0.00	
2,100.0	22.05	298.93	2,004.1	261.0	-472.3	539.4	0.00	0.00	0.00	
2,200.0	22.05	298.93	2,096.7	279.2	-505.1	576.9	0.00	0.00	0.00	
2,300.0	22.05	298.93	2,189.4	297.3	-538.0	614.4	0.00	0.00	0.00	
Wasatch										
2,366.4	22.05	298.93	2,251.0	309.4	-559.8	639.4	0.00	0.00	0.00	
2,400.0	22.05	298.93	2,282.1	315.5	-570.9	652.0	0.00	0.00	0.00	
2,500.0	22.05	298.93	2,374.8	333.7	-603.7	689.5	0.00	0.00	0.00	
2,600.0	22.05	298.93	2,467.5	351.8	-636.6	727.0	0.00	0.00	0.00	
2,700.0	22.05	298.93	2,560.2	370.0	-669.4	764.6	0.00	0.00	0.00	
2,800.0	22.05	298.93	2,652.8	388.2	-702.3	802.1	0.00	0.00	0.00	
2,900.0	22.05	298.93	2,745.5	406.3	-735.2	839.7	0.00	0.00	0.00	
3,000.0	22.05	298.93	2,838.2	424.5	-768.0	877.2	0.00	0.00	0.00	
3,100.0	22.05	298.93	2,930.9	442.7	-800.9	914.7	0.00	0.00	0.00	
3,200.0	22.05	298.93	3,023.6	460.8	-833.8	952.3	0.00	0.00	0.00	
3,300.0	22.05	298.93	3,116.2	479.0	-866.6	989.8	0.00	0.00	0.00	
3,400.0	22.05	298.93	3,208.9	497.2	-899.5	1,027.3	0.00	0.00	0.00	
3,500.0	22.05	298.93	3,301.6	515.3	-932.4	1,064.9	0.00	0.00	0.00	
3,600.0	22.05	298.93	3,394.3	533.5	-965.2	1,102.4	0.00	0.00	0.00	
3,700.0	22.05	298.93	3,487.0	551.6	-998.1	1,139.9	0.00	0.00	0.00	
3,800.0	22.05	298.93	3,579.7	569.8	-1,031.0	1,177.5	0.00	0.00	0.00	
3,900.0	22.05	298.93	3,672.3	588.0	-1,063.8	1,215.0	0.00	0.00	0.00	
4,000.0	22.05	298.93	3,765.0	606.1	-1,096.7	1,252.5	0.00	0.00	0.00	
4,100.0	22.05	298.93	3,857.7	624.3	-1,129.5	1,290.1	0.00	0.00	0.00	
4,200.0	22.05	298.93	3,950.4	642.5	-1,162.4	1,327.6	0.00	0.00	0.00	
4,300.0	22.05	298.93	4,043.1	660.6	-1,195.3	1,365.1	0.00	0.00	0.00	
4,400.0	22.05	298.93	4,135.8	678.8	-1,228.1	1,402.7	0.00	0.00	0.00	
4,500.0	22.05	298.93	4,228.4	697.0	-1,261.0	1,440.2	0.00	0.00	0.00	
4,600.0	22.05	298.93	4,321.1	715.1	-1,293.9	1,477.7	0.00	0.00	0.00	
4,700.0	22.05	298.93	4,413.8	733.3	-1,326.7	1,515.3	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 24B-32 496 - Slot 24B-32
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:	BJU M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 24B-32 496	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)	
4,800.0	22.05	298.93	4,506.5	751.5	-1,359.6	1,552.8	0.00	0.00	0.00	
4,900.0	22.05	298.93	4,599.2	769.6	-1,392.5	1,590.3	0.00	0.00	0.00	
5,000.0	22.05	298.93	4,691.8	787.8	-1,425.3	1,627.9	0.00	0.00	0.00	
5,100.0	22.05	298.93	4,784.5	805.9	-1,458.2	1,665.4	0.00	0.00	0.00	
5,200.0	22.05	298.93	4,877.2	824.1	-1,491.0	1,702.9	0.00	0.00	0.00	
5,300.0	22.05	298.93	4,969.9	842.3	-1,523.9	1,740.5	0.00	0.00	0.00	
5,400.0	22.05	298.93	5,062.6	860.4	-1,556.8	1,778.0	0.00	0.00	0.00	
5,500.0	22.05	298.93	5,155.3	878.6	-1,589.6	1,815.5	0.00	0.00	0.00	
5,600.0	22.05	298.93	5,247.9	896.8	-1,622.5	1,853.1	0.00	0.00	0.00	
Wasatch G										
5,616.2	22.05	298.93	5,263.0	899.7	-1,627.8	1,859.2	0.00	0.00	0.00	
5,700.0	22.05	298.93	5,340.6	914.9	-1,655.4	1,890.6	0.00	0.00	0.00	
5,800.0	22.05	298.93	5,433.3	933.1	-1,688.2	1,928.1	0.00	0.00	0.00	
5,900.0	22.05	298.93	5,526.0	951.3	-1,721.1	1,965.7	0.00	0.00	0.00	
Fort Union										
5,918.4	22.05	298.93	5,543.0	954.6	-1,727.1	1,972.6	0.00	0.00	0.00	
6,000.0	22.05	298.93	5,618.7	969.4	-1,754.0	2,003.2	0.00	0.00	0.00	
6,100.0	22.05	298.93	5,711.4	987.6	-1,786.8	2,040.7	0.00	0.00	0.00	
6,200.0	22.05	298.93	5,804.0	1,005.7	-1,819.7	2,078.3	0.00	0.00	0.00	
6,300.0	22.05	298.93	5,896.7	1,023.9	-1,852.6	2,115.8	0.00	0.00	0.00	
6,400.0	22.05	298.93	5,989.4	1,042.1	-1,885.4	2,153.4	0.00	0.00	0.00	
6,500.0	22.05	298.93	6,082.1	1,060.2	-1,918.3	2,190.9	0.00	0.00	0.00	
6,600.0	22.05	298.93	6,174.8	1,078.4	-1,951.1	2,228.4	0.00	0.00	0.00	
6,700.0	22.05	298.93	6,267.4	1,096.6	-1,984.0	2,266.0	0.00	0.00	0.00	
6,800.0	22.05	298.93	6,360.1	1,114.7	-2,016.9	2,303.5	0.00	0.00	0.00	
6,900.0	22.05	298.93	6,452.8	1,132.9	-2,049.7	2,341.0	0.00	0.00	0.00	
7,000.0	22.05	298.93	6,545.5	1,151.1	-2,082.6	2,378.6	0.00	0.00	0.00	
7,100.0	22.05	298.93	6,638.2	1,169.2	-2,115.5	2,416.1	0.00	0.00	0.00	
Start Drop -3.00										
7,142.8	22.05	298.93	6,677.9	1,177.0	-2,129.5	2,432.2	0.00	0.00	0.00	
7,200.0	20.34	298.93	6,731.2	1,187.0	-2,147.6	2,452.8	3.00	-3.00	0.00	
7,300.0	17.34	298.93	6,825.8	1,202.6	-2,175.9	2,485.1	3.00	-3.00	0.00	
7,400.0	14.34	298.93	6,922.0	1,215.8	-2,199.8	2,512.4	3.00	-3.00	0.00	
7,500.0	11.34	298.93	7,019.5	1,226.6	-2,219.2	2,534.6	3.00	-3.00	0.00	
7,600.0	8.34	298.93	7,118.0	1,234.8	-2,234.2	2,551.7	3.00	-3.00	0.00	
7,700.0	5.34	298.93	7,217.3	1,240.6	-2,244.6	2,563.6	3.00	-3.00	0.00	
7,800.0	2.34	298.93	7,317.0	1,243.8	-2,250.5	2,570.3	3.00	-3.00	0.00	
Start DLS 1.50 TFO 249.98 - Ohio Creek										
7,878.0	0.00	0.00	7,395.0	1,244.6	-2,251.8	2,571.9	3.00	-3.00	0.00	
7,900.0	0.33	249.98	7,417.0	1,244.6	-2,251.9	2,571.9	1.50	1.50	0.00	
Start 3862.6 hold at 7975.6 MD										
7,975.6	1.46	249.98	7,492.7	1,244.2	-2,253.0	2,572.7	1.50	1.50	0.00	
8,000.0	1.46	249.98	7,517.0	1,244.0	-2,253.6	2,573.1	0.00	0.00	0.00	
8,100.0	1.46	249.98	7,617.0	1,243.1	-2,256.0	2,574.9	0.00	0.00	0.00	
TOG										
8,133.0	1.46	249.98	7,650.0	1,242.8	-2,256.8	2,575.4	0.00	0.00	0.00	
Williams Fork										
8,143.0	1.46	249.98	7,660.0	1,242.7	-2,257.0	2,575.6	0.00	0.00	0.00	
8,200.0	1.46	249.98	7,716.9	1,242.2	-2,258.4	2,576.6	0.00	0.00	0.00	
8,300.0	1.46	249.98	7,816.9	1,241.3	-2,260.8	2,578.3	0.00	0.00	0.00	
8,400.0	1.46	249.98	7,916.9	1,240.5	-2,263.2	2,580.1	0.00	0.00	0.00	
8,500.0	1.46	249.98	8,016.8	1,239.6	-2,265.6	2,581.8	0.00	0.00	0.00	
8,600.0	1.46	249.98	8,116.8	1,238.7	-2,268.0	2,583.5	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 24B-32 496 - Slot 24B-32
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:	BJU M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 24B-32 496	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)	
8,700.0	1.46	249.98	8,216.8	1,237.8	-2,270.4	2,585.3	0.00	0.00	0.00	
8,800.0	1.46	249.98	8,316.7	1,237.0	-2,272.8	2,587.0	0.00	0.00	0.00	
8,900.0	1.46	249.98	8,416.7	1,236.1	-2,275.2	2,588.7	0.00	0.00	0.00	
9,000.0	1.46	249.98	8,516.7	1,235.2	-2,277.6	2,590.5	0.00	0.00	0.00	
9,100.0	1.46	249.98	8,616.6	1,234.3	-2,280.0	2,592.2	0.00	0.00	0.00	
9,200.0	1.46	249.98	8,716.6	1,233.5	-2,282.4	2,593.9	0.00	0.00	0.00	
9,300.0	1.46	249.98	8,816.6	1,232.6	-2,284.8	2,595.7	0.00	0.00	0.00	
9,400.0	1.46	249.98	8,916.5	1,231.7	-2,287.2	2,597.4	0.00	0.00	0.00	
9,500.0	1.46	249.98	9,016.5	1,230.8	-2,289.6	2,599.1	0.00	0.00	0.00	
9,600.0	1.46	249.98	9,116.5	1,230.0	-2,292.0	2,600.9	0.00	0.00	0.00	
9,700.0	1.46	249.98	9,216.5	1,229.1	-2,294.4	2,602.6	0.00	0.00	0.00	
9,800.0	1.46	249.98	9,316.4	1,228.2	-2,296.8	2,604.3	0.00	0.00	0.00	
9,900.0	1.46	249.98	9,416.4	1,227.3	-2,299.2	2,606.1	0.00	0.00	0.00	
10,000.0	1.46	249.98	9,516.4	1,226.5	-2,301.6	2,607.8	0.00	0.00	0.00	
10,100.0	1.46	249.98	9,616.3	1,225.6	-2,304.0	2,609.5	0.00	0.00	0.00	
10,200.0	1.46	249.98	9,716.3	1,224.7	-2,306.4	2,611.3	0.00	0.00	0.00	
10,300.0	1.46	249.98	9,816.3	1,223.8	-2,308.8	2,613.0	0.00	0.00	0.00	
10,400.0	1.46	249.98	9,916.2	1,223.0	-2,311.3	2,614.7	0.00	0.00	0.00	
10,500.0	1.46	249.98	10,016.2	1,222.1	-2,313.7	2,616.5	0.00	0.00	0.00	
10,600.0	1.46	249.98	10,116.2	1,221.2	-2,316.1	2,618.2	0.00	0.00	0.00	
Cameo										
10,696.9	1.46	249.98	10,213.0	1,220.4	-2,318.4	2,619.9	0.00	0.00	0.00	
10,700.0	1.46	249.98	10,216.1	1,220.3	-2,318.5	2,619.9	0.00	0.00	0.00	
10,800.0	1.46	249.98	10,316.1	1,219.5	-2,320.9	2,621.7	0.00	0.00	0.00	
10,900.0	1.46	249.98	10,416.1	1,218.6	-2,323.3	2,623.4	0.00	0.00	0.00	
11,000.0	1.46	249.98	10,516.0	1,217.7	-2,325.7	2,625.1	0.00	0.00	0.00	
11,100.0	1.46	249.98	10,616.0	1,216.8	-2,328.1	2,626.9	0.00	0.00	0.00	
11,200.0	1.46	249.98	10,716.0	1,215.9	-2,330.5	2,628.6	0.00	0.00	0.00	
11,300.0	1.46	249.98	10,815.9	1,215.1	-2,332.9	2,630.3	0.00	0.00	0.00	
Rollins										
11,338.1	1.46	249.98	10,854.0	1,214.7	-2,333.8	2,631.0	0.00	0.00	0.00	
11,400.0	1.46	249.98	10,915.9	1,214.2	-2,335.3	2,632.1	0.00	0.00	0.00	
11,500.0	1.46	249.98	11,015.9	1,213.3	-2,337.7	2,633.8	0.00	0.00	0.00	
11,600.0	1.46	249.98	11,115.8	1,212.4	-2,340.1	2,635.5	0.00	0.00	0.00	
11,700.0	1.46	249.98	11,215.8	1,211.6	-2,342.5	2,637.3	0.00	0.00	0.00	
11,800.0	1.46	249.98	11,315.8	1,210.7	-2,344.9	2,639.0	0.00	0.00	0.00	
TD at 11838.2										
11,838.2	1.46	249.98	11,354.0	1,210.4	-2,345.8	2,639.7	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 - 24B-32 - hit/miss target - Shape - Point	0.00	0.00	7,395.0	1,244.6	-2,251.8	14,413,506.38	2,432,549.23	39.656823	-108.185794
PBHL - 24B-32 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	11,354.0	1,210.4	-2,345.8	14,413,469.20	2,432,456.40	39.656729	-108.186128

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 24B-32 496 - Slot 24B-32
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:	BJU M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 24B-32 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,366.4	2,251.0	Wasatch			
5,616.2	5,263.0	Wasatch G			
5,918.4	5,543.0	Fort Union			
7,878.0	7,395.0	Ohio Creek			
8,133.0	7,650.0	TOG			
8,143.0	7,660.0	Williams Fork			
10,696.9	10,213.0	Cameo			
11,338.1	10,854.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
300.0	300.0	0.0	0.0	Start Build 3.00
1,035.2	1,017.1	67.6	-122.3	Start 6107.6 hold at 1035.2 MD
7,142.8	6,677.9	1,177.0	-2,129.5	Start Drop -3.00
7,878.0	7,395.0	1,244.6	-2,251.8	Start DLS 1.50 TFO 249.98
7,975.6	7,492.7	1,244.2	-2,253.0	Start 3862.6 hold at 7975.6 MD
11,838.2	11,354.0	1,210.4	-2,345.8	TD at 11838.2