

Project: Garfield County, CO
 Site: BJU M33 496 Pad
 Well: BJU M33 FED 25A-33 496
 Wellbore: Wellbore #1
 Design: Design #5
 Latitude: 39.653329
 Longitude: -108.177828
 Ground Level: 8401.0
 RKB @ 8431.0usft (H&P #329)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2212.0	2242.8	Wasatch
5222.0	5311.3	Wasatch G
5511.0	5605.9	Fort Union
7371.0	7497.2	Ohio Creek
7624.0	7750.3	TOG
7832.0	7750.3	Williams Fork
10171.0	10298.1	Cameo
10814.0	10941.3	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well BJU M33 FED 25A-33 496 - Slot 25A-33, True North
 Vertical (TVD) Reference: RKB @ 8431.0usft (H&P #329)
 Section (VS) Reference: Slot - 25A-33(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	14412304.10	2434831.90	39.653329	-108.177828

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

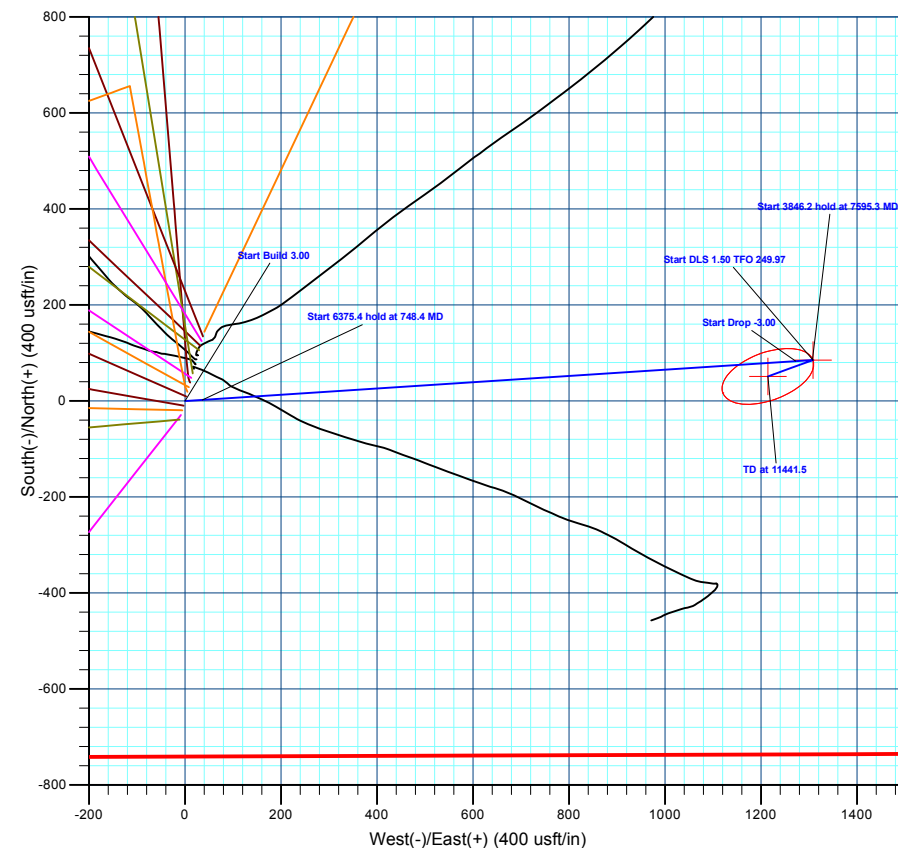
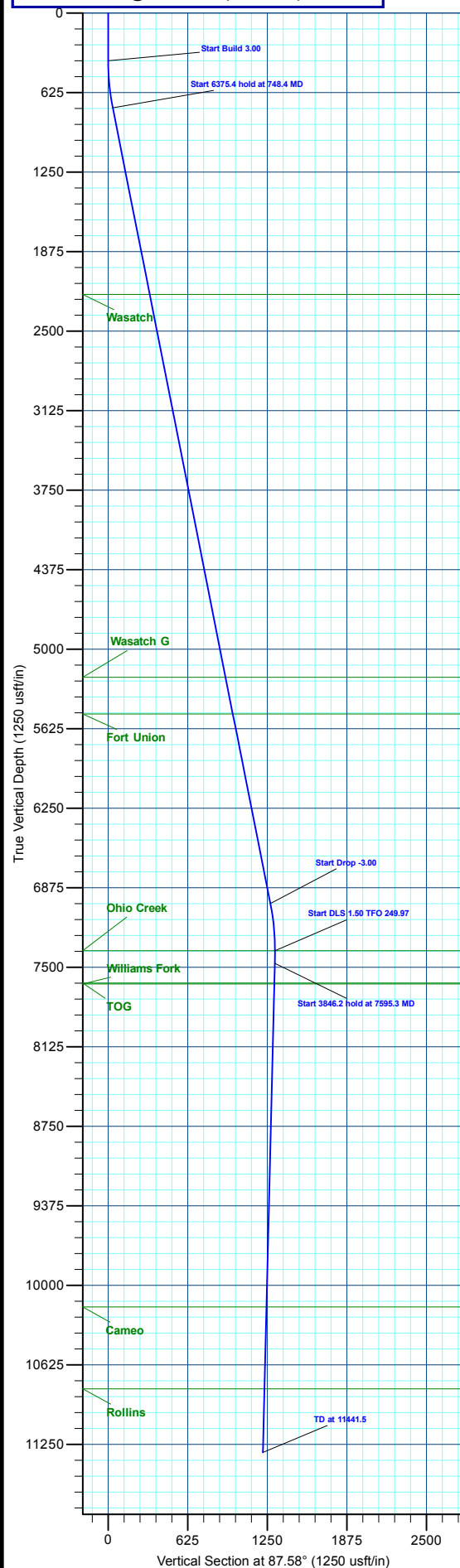
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 25A-33	7371.0	85.6	1308.6	14412430.78	2436137.13	39.653563	-108.173182
PBHL - 25A-33	11314.0	51.3	1214.6	14412393.60	2436044.30	39.653469	-108.173516

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	
375.0	0.00	0.00	375.0	0.0	0.0	0.00	0.00	0.0	Start Build 3.00
748.4	11.20	86.26	746.0	2.4	36.3	3.00	86.26	36.4	Start 6375.4 hold at 748.4 MD
7123.8	11.20	86.26	7000.0	83.2	1272.3	0.00	0.00	1274.6	Start Drop -3.00
7497.2	0.00	0.00	7371.0	85.6	1308.6	3.00	180.00	1311.0	Start DLS 1.50 TFO 249.97
7595.3	1.47	249.97	7469.1	85.1	1307.4	1.50	249.97	1309.8	Start 3846.2 hold at 7595.3 MD
11441.5	1.47	249.97	11314.0	51.3	1214.6	0.00	0.00	1215.7	TD at 11441.5

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 #5 (BJU M33 FED 25A-33 496/Wellbore #1)

Created By: Will Jircik Date: 13:58, January 10 2023



Caerus Oil & Gas

Garfield County, CO

BJU M33 496 Pad

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

Wellbore #1

Plan: Design #5

KLX Well Planning Report

10 January, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25A-33 496 - Slot 25A-33
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 25A-33 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

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 25A-33 496 - Slot 25A-33					
Well Position	+N/-S	-2,659.4 usft	Northing:	14,412,304.10 usft	Latitude:	39.653329
	+E/-W	-12,270.1 usft	Easting:	2,434,831.90 usft	Longitude:	-108.177828
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 #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	87.58

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	
375.0	0.00	0.00	375.0	0.0	0.0	0.00	0.00	0.00	0.00	
748.4	11.20	86.26	746.0	2.4	36.3	3.00	3.00	0.00	86.26	
7,123.8	11.20	86.26	7,000.0	83.2	1,272.3	0.00	0.00	0.00	0.00	
7,497.2	0.00	0.00	7,371.0	85.6	1,308.6	3.00	-3.00	0.00	180.00	OHCR - 25A-33
7,595.3	1.47	249.97	7,469.1	85.1	1,307.4	1.50	1.50	-112.19	249.97	
11,441.5	1.47	249.97	11,314.0	51.3	1,214.6	0.00	0.00	0.00	0.00	PBHL - 25A-33

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25A-33 496 - Slot 25A-33
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 25A-33 496	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
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
Start Build 3.00									
375.0	0.00	0.00	375.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.75	86.26	400.0	0.0	0.2	0.2	3.00	3.00	0.00
500.0	3.75	86.26	499.9	0.3	4.1	4.1	3.00	3.00	0.00
600.0	6.75	86.26	599.5	0.9	13.2	13.2	3.00	3.00	0.00
700.0	9.75	86.26	698.4	1.8	27.5	27.6	3.00	3.00	0.00
Start 6375.4 hold at 748.4 MD									
748.4	11.20	86.26	746.0	2.4	36.3	36.4	3.00	3.00	0.00
800.0	11.20	86.26	796.6	3.0	46.3	46.4	0.00	0.00	0.00
900.0	11.20	86.26	894.7	4.3	65.7	65.8	0.00	0.00	0.00
1,000.0	11.20	86.26	992.8	5.6	85.1	85.2	0.00	0.00	0.00
1,100.0	11.20	86.26	1,090.9	6.8	104.5	104.7	0.00	0.00	0.00
1,200.0	11.20	86.26	1,189.0	8.1	123.9	124.1	0.00	0.00	0.00
1,300.0	11.20	86.26	1,287.1	9.4	143.2	143.5	0.00	0.00	0.00
1,400.0	11.20	86.26	1,385.2	10.6	162.6	162.9	0.00	0.00	0.00
1,500.0	11.20	86.26	1,483.3	11.9	182.0	182.4	0.00	0.00	0.00
1,600.0	11.20	86.26	1,581.4	13.2	201.4	201.8	0.00	0.00	0.00
1,700.0	11.20	86.26	1,679.5	14.4	220.8	221.2	0.00	0.00	0.00
1,800.0	11.20	86.26	1,777.6	15.7	240.2	240.6	0.00	0.00	0.00
1,900.0	11.20	86.26	1,875.7	17.0	259.6	260.0	0.00	0.00	0.00
2,000.0	11.20	86.26	1,973.8	18.2	278.9	279.5	0.00	0.00	0.00
2,100.0	11.20	86.26	2,071.9	19.5	298.3	298.9	0.00	0.00	0.00
2,200.0	11.20	86.26	2,170.0	20.8	317.7	318.3	0.00	0.00	0.00
Wasatch									
2,242.8	11.20	86.26	2,212.0	21.3	326.0	326.6	0.00	0.00	0.00
2,300.0	11.20	86.26	2,268.1	22.0	337.1	337.7	0.00	0.00	0.00
2,400.0	11.20	86.26	2,366.2	23.3	356.5	357.2	0.00	0.00	0.00
2,500.0	11.20	86.26	2,464.3	24.6	375.9	376.6	0.00	0.00	0.00
2,600.0	11.20	86.26	2,562.3	25.8	395.3	396.0	0.00	0.00	0.00
2,700.0	11.20	86.26	2,660.4	27.1	414.6	415.4	0.00	0.00	0.00
2,800.0	11.20	86.26	2,758.5	28.4	434.0	434.8	0.00	0.00	0.00
2,900.0	11.20	86.26	2,856.6	29.7	453.4	454.3	0.00	0.00	0.00
3,000.0	11.20	86.26	2,954.7	30.9	472.8	473.7	0.00	0.00	0.00
3,100.0	11.20	86.26	3,052.8	32.2	492.2	493.1	0.00	0.00	0.00
3,200.0	11.20	86.26	3,150.9	33.5	511.6	512.5	0.00	0.00	0.00
3,300.0	11.20	86.26	3,249.0	34.7	531.0	532.0	0.00	0.00	0.00
3,400.0	11.20	86.26	3,347.1	36.0	550.4	551.4	0.00	0.00	0.00
3,500.0	11.20	86.26	3,445.2	37.3	569.7	570.8	0.00	0.00	0.00
3,600.0	11.20	86.26	3,543.3	38.5	589.1	590.2	0.00	0.00	0.00
3,700.0	11.20	86.26	3,641.4	39.8	608.5	609.6	0.00	0.00	0.00
3,800.0	11.20	86.26	3,739.5	41.1	627.9	629.1	0.00	0.00	0.00
3,900.0	11.20	86.26	3,837.6	42.3	647.3	648.5	0.00	0.00	0.00
4,000.0	11.20	86.26	3,935.7	43.6	666.7	667.9	0.00	0.00	0.00
4,100.0	11.20	86.26	4,033.8	44.9	686.1	687.3	0.00	0.00	0.00
4,200.0	11.20	86.26	4,131.9	46.1	705.4	706.8	0.00	0.00	0.00
4,300.0	11.20	86.26	4,230.0	47.4	724.8	726.2	0.00	0.00	0.00
4,400.0	11.20	86.26	4,328.1	48.7	744.2	745.6	0.00	0.00	0.00
4,500.0	11.20	86.26	4,426.1	49.9	763.6	765.0	0.00	0.00	0.00
4,600.0	11.20	86.26	4,524.2	51.2	783.0	784.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25A-33 496 - Slot 25A-33
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 25A-33 496	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)	
4,700.0	11.20	86.26	4,622.3	52.5	802.4	803.9	0.00	0.00	0.00	
4,800.0	11.20	86.26	4,720.4	53.7	821.8	823.3	0.00	0.00	0.00	
4,900.0	11.20	86.26	4,818.5	55.0	841.1	842.7	0.00	0.00	0.00	
5,000.0	11.20	86.26	4,916.6	56.3	860.5	862.1	0.00	0.00	0.00	
5,100.0	11.20	86.26	5,014.7	57.5	879.9	881.6	0.00	0.00	0.00	
5,200.0	11.20	86.26	5,112.8	58.8	899.3	901.0	0.00	0.00	0.00	
5,300.0	11.20	86.26	5,210.9	60.1	918.7	920.4	0.00	0.00	0.00	
Wasatch G										
5,311.3	11.20	86.26	5,222.0	60.2	920.9	922.6	0.00	0.00	0.00	
5,400.0	11.20	86.26	5,309.0	61.3	938.1	939.8	0.00	0.00	0.00	
5,500.0	11.20	86.26	5,407.1	62.6	957.5	959.3	0.00	0.00	0.00	
5,600.0	11.20	86.26	5,505.2	63.9	976.8	978.7	0.00	0.00	0.00	
Fort Union										
5,605.9	11.20	86.26	5,511.0	64.0	978.0	979.8	0.00	0.00	0.00	
5,700.0	11.20	86.26	5,603.3	65.1	996.2	998.1	0.00	0.00	0.00	
5,800.0	11.20	86.26	5,701.4	66.4	1,015.6	1,017.5	0.00	0.00	0.00	
5,900.0	11.20	86.26	5,799.5	67.7	1,035.0	1,036.9	0.00	0.00	0.00	
6,000.0	11.20	86.26	5,897.6	69.0	1,054.4	1,056.4	0.00	0.00	0.00	
6,100.0	11.20	86.26	5,995.7	70.2	1,073.8	1,075.8	0.00	0.00	0.00	
6,200.0	11.20	86.26	6,093.8	71.5	1,093.2	1,095.2	0.00	0.00	0.00	
6,300.0	11.20	86.26	6,191.9	72.8	1,112.6	1,114.6	0.00	0.00	0.00	
6,400.0	11.20	86.26	6,289.9	74.0	1,131.9	1,134.1	0.00	0.00	0.00	
6,500.0	11.20	86.26	6,388.0	75.3	1,151.3	1,153.5	0.00	0.00	0.00	
6,600.0	11.20	86.26	6,486.1	76.6	1,170.7	1,172.9	0.00	0.00	0.00	
6,700.0	11.20	86.26	6,584.2	77.8	1,190.1	1,192.3	0.00	0.00	0.00	
6,800.0	11.20	86.26	6,682.3	79.1	1,209.5	1,211.7	0.00	0.00	0.00	
6,900.0	11.20	86.26	6,780.4	80.4	1,228.9	1,231.2	0.00	0.00	0.00	
7,000.0	11.20	86.26	6,878.5	81.6	1,248.3	1,250.6	0.00	0.00	0.00	
7,100.0	11.20	86.26	6,976.6	82.9	1,267.6	1,270.0	0.00	0.00	0.00	
Start Drop -3.00										
7,123.8	11.20	86.26	7,000.0	83.2	1,272.3	1,274.6	0.00	0.00	0.00	
7,200.0	8.92	86.26	7,075.0	84.1	1,285.5	1,287.9	3.00	-3.00	0.00	
7,300.0	5.92	86.26	7,174.1	84.9	1,298.4	1,300.8	3.00	-3.00	0.00	
7,400.0	2.92	86.26	7,273.8	85.4	1,306.1	1,308.5	3.00	-3.00	0.00	
Start DLS 1.50 TFO 249.97 - Ohio Creek										
7,497.2	0.00	0.00	7,371.0	85.6	1,308.6	1,311.0	3.00	-3.00	0.00	
7,500.0	0.04	249.97	7,373.8	85.6	1,308.6	1,311.0	1.50	1.50	0.00	
Start 3846.2 hold at 7595.3 MD										
7,595.3	1.47	249.97	7,469.1	85.1	1,307.4	1,309.8	1.50	1.50	0.00	
7,600.0	1.47	249.97	7,473.8	85.1	1,307.3	1,309.7	0.00	0.00	0.00	
7,700.0	1.47	249.97	7,573.7	84.2	1,304.9	1,307.3	0.00	0.00	0.00	
TOG										
7,750.3	1.47	249.97	7,624.0	83.8	1,303.6	1,306.0	0.00	0.00	0.00	
Williams Fork										
7,758.3	1.47	249.97	7,632.0	83.7	1,303.5	1,305.8	0.00	0.00	0.00	
7,800.0	1.47	249.97	7,673.7	83.3	1,302.4	1,304.8	0.00	0.00	0.00	
7,900.0	1.47	249.97	7,773.7	82.5	1,300.0	1,302.4	0.00	0.00	0.00	
8,000.0	1.47	249.97	7,873.6	81.6	1,297.6	1,299.9	0.00	0.00	0.00	
8,100.0	1.47	249.97	7,973.6	80.7	1,295.2	1,297.5	0.00	0.00	0.00	
8,200.0	1.47	249.97	8,073.6	79.8	1,292.8	1,295.0	0.00	0.00	0.00	
8,300.0	1.47	249.97	8,173.5	78.9	1,290.4	1,292.6	0.00	0.00	0.00	
8,400.0	1.47	249.97	8,273.5	78.1	1,288.0	1,290.1	0.00	0.00	0.00	
8,500.0	1.47	249.97	8,373.5	77.2	1,285.6	1,287.7	0.00	0.00	0.00	

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Project:	Garfield County, CO	MD Reference:	RKB @ 8431.0usft (H&P #329)
Site:	BJU M33 496 Pad	North Reference:	True
Well:	BJU M33 FED 25A-33 496	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)	
8,600.0	1.47	249.97	8,473.4	76.3	1,283.2	1,285.2	0.00	0.00	0.00	
8,700.0	1.47	249.97	8,573.4	75.4	1,280.7	1,282.8	0.00	0.00	0.00	
8,800.0	1.47	249.97	8,673.4	74.6	1,278.3	1,280.3	0.00	0.00	0.00	
8,900.0	1.47	249.97	8,773.3	73.7	1,275.9	1,277.9	0.00	0.00	0.00	
9,000.0	1.47	249.97	8,873.3	72.8	1,273.5	1,275.4	0.00	0.00	0.00	
9,100.0	1.47	249.97	8,973.3	71.9	1,271.1	1,273.0	0.00	0.00	0.00	
9,200.0	1.47	249.97	9,073.2	71.0	1,268.7	1,270.5	0.00	0.00	0.00	
9,300.0	1.47	249.97	9,173.2	70.2	1,266.3	1,268.1	0.00	0.00	0.00	
9,400.0	1.47	249.97	9,273.2	69.3	1,263.9	1,265.7	0.00	0.00	0.00	
9,500.0	1.47	249.97	9,373.1	68.4	1,261.4	1,263.2	0.00	0.00	0.00	
9,600.0	1.47	249.97	9,473.1	67.5	1,259.0	1,260.8	0.00	0.00	0.00	
9,700.0	1.47	249.97	9,573.1	66.6	1,256.6	1,258.3	0.00	0.00	0.00	
9,800.0	1.47	249.97	9,673.0	65.8	1,254.2	1,255.9	0.00	0.00	0.00	
9,900.0	1.47	249.97	9,773.0	64.9	1,251.8	1,253.4	0.00	0.00	0.00	
10,000.0	1.47	249.97	9,873.0	64.0	1,249.4	1,251.0	0.00	0.00	0.00	
10,100.0	1.47	249.97	9,972.9	63.1	1,247.0	1,248.5	0.00	0.00	0.00	
10,200.0	1.47	249.97	10,072.9	62.2	1,244.6	1,246.1	0.00	0.00	0.00	
Cameo										
10,298.1	1.47	249.97	10,171.0	61.4	1,242.2	1,243.7	0.00	0.00	0.00	
10,300.0	1.47	249.97	10,172.9	61.4	1,242.1	1,243.6	0.00	0.00	0.00	
10,400.0	1.47	249.97	10,272.8	60.5	1,239.7	1,241.2	0.00	0.00	0.00	
10,500.0	1.47	249.97	10,372.8	59.6	1,237.3	1,238.7	0.00	0.00	0.00	
10,600.0	1.47	249.97	10,472.8	58.7	1,234.9	1,236.3	0.00	0.00	0.00	
10,700.0	1.47	249.97	10,572.7	57.9	1,232.5	1,233.8	0.00	0.00	0.00	
10,800.0	1.47	249.97	10,672.7	57.0	1,230.1	1,231.4	0.00	0.00	0.00	
10,900.0	1.47	249.97	10,772.7	56.1	1,227.7	1,228.9	0.00	0.00	0.00	
Rollins										
10,941.3	1.47	249.97	10,814.0	55.7	1,226.7	1,227.9	0.00	0.00	0.00	
11,000.0	1.47	249.97	10,872.6	55.2	1,225.3	1,226.5	0.00	0.00	0.00	
11,100.0	1.47	249.97	10,972.6	54.3	1,222.9	1,224.1	0.00	0.00	0.00	
11,200.0	1.47	249.97	11,072.6	53.5	1,220.4	1,221.6	0.00	0.00	0.00	
11,300.0	1.47	249.97	11,172.5	52.6	1,218.0	1,219.2	0.00	0.00	0.00	
11,400.0	1.47	249.97	11,272.5	51.7	1,215.6	1,216.7	0.00	0.00	0.00	
TD at 11441.5										
11,441.5	1.47	249.97	11,314.0	51.3	1,214.6	1,215.7	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 - 25A-33 - hit/miss target - Shape - Point	0.00	0.00	7,371.0	85.6	1,308.6	14,412,430.78	2,436,137.13	39.653563	-108.173182	
PBHL - 25A-33 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	11,314.0	51.3	1,214.6	14,412,393.60	2,436,044.30	39.653469	-108.173516	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25A-33 496 - Slot 25A-33
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 25A-33 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #5		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,242.8	2,212.0	Wasatch			
5,311.3	5,222.0	Wasatch G			
5,605.9	5,511.0	Fort Union			
7,497.2	7,371.0	Ohio Creek			
7,750.3	7,624.0	TOG			
7,758.3	7,632.0	Williams Fork			
10,298.1	10,171.0	Cameo			
10,941.3	10,814.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
375.0	375.0	0.0	0.0	Start Build 3.00
748.4	746.0	2.4	36.3	Start 6375.4 hold at 748.4 MD
7,123.8	7,000.0	83.2	1,272.3	Start Drop -3.00
7,497.2	7,371.0	85.6	1,308.6	Start DLS 1.50 TFO 249.97
7,595.3	7,469.1	85.1	1,307.4	Start 3846.2 hold at 7595.3 MD
11,441.5	11,314.0	51.3	1,214.6	TD at 11441.5