

Project: Garfield County, CO
 Site: NPM M33 496 Pad
 Well: BJU M33 FED 25B-32 496
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.653356
 Longitude: -108.177855
 Ground Level: 8401.0
 RKB @ 8431.0usft (H&P #329)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2190.0	2245.7	Wasatch
5190.0	5347.7	Wasatch G
5488.0	5655.9	Fort Union
7354.0	7574.2	Ohio Creek
7614.0	7834.3	TOG
7614.0	7834.3	Williams Fork
10135.0	10356.2	Cameo
10781.0	11002.5	Rollins

REFERENCE INFORMATION	
Co-ordinate (N/E) Reference:	Well BJU M33 FED 25B-32 496 - Slot BJU M33 FED 25B-32 496, True North
Vertical (TVD) Reference:	RKB @ 8431.0usft (H&P #329)
Section (VS) Reference:	Slot - BJU M33 FED 25B-32 496(0.0N, 0.0E)
Measured Depth Reference:	RKB @ 8431.0usft (H&P #329)
Calculation Method:	Minimum Curvature

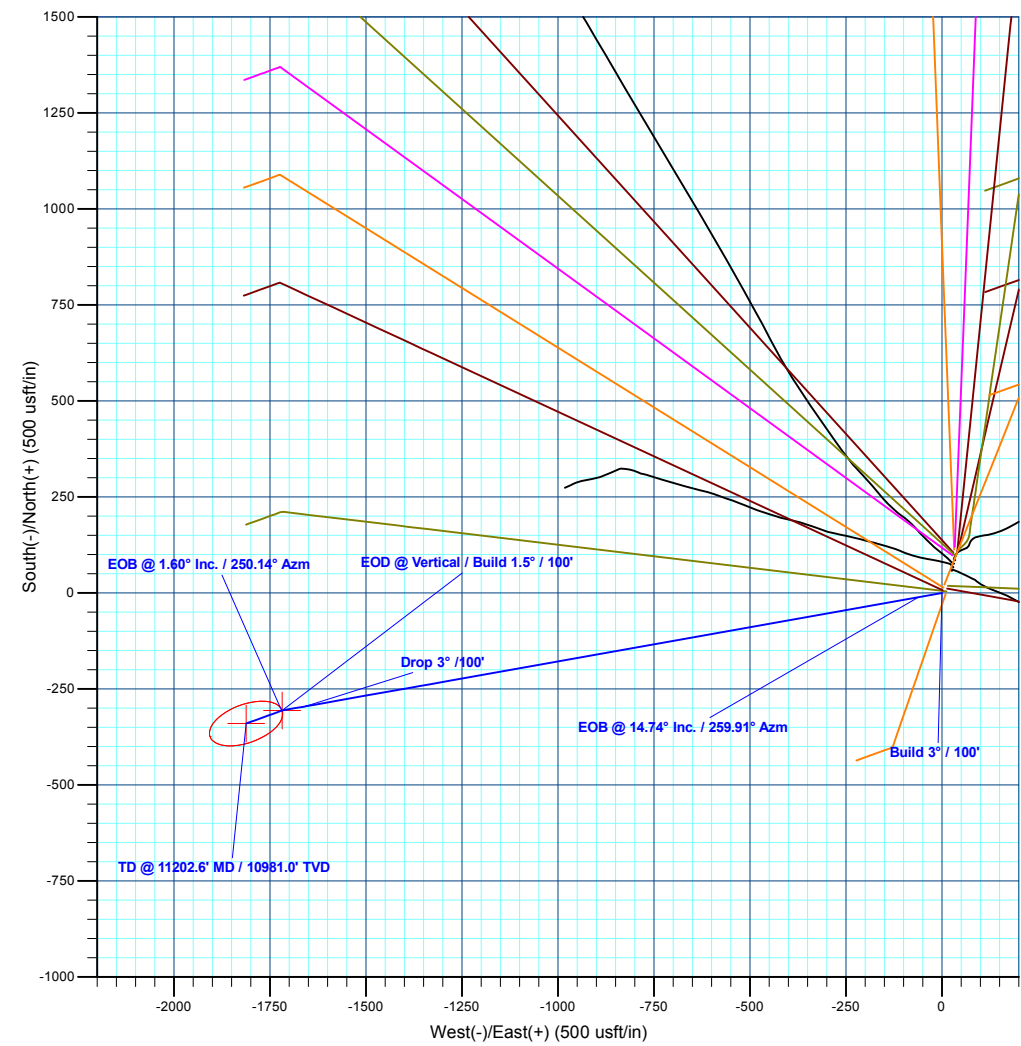
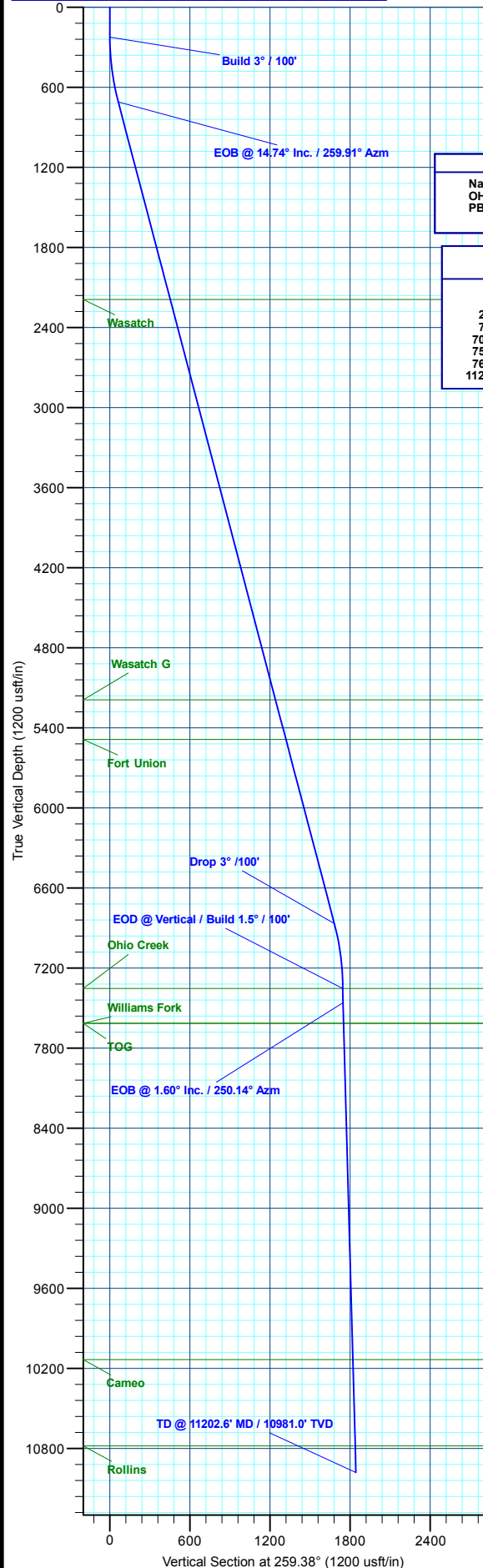
WELL DETAILS: BJU M33 FED 25B-32 496					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14412313.80	2434824.00	39.653356	BJU M33 FED 25B-32 496

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

T M
 Azimuths to True North
 Magnetic North: 9.48°
 Magnetic Field
 Strength: 51259.6nT
 Dip Angle: 65.82°
 Date: 12/10/2019
 Model: HDGM_FILE

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - D#2 - BJ M33 25B-32 496	7354.0	-305.8	-1718.0	14411954.08	2433116.45	39.652516	-108.183954
PBHL - D#2 - BJ M33 25B-32 496	10981.0	-339.8	-1812.0	14411917.20	2433023.60	39.652423	-108.184288

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	Build 3° / 100'	
225.0	0.00	0.00	225.0	0.0	0.0	0.00	0.00	0.0	EOB @ 14.74° Inc. / 259.91° Azm	
716.2	14.74	259.91	710.8	-11.0	-61.8	3.00	259.91	62.8	Drop 3° / 100'	
7083.0	14.74	259.91	6868.2	-294.8	-1656.2	0.00	0.00	1682.1	EOB @ Vertical / Build 1.5° / 100'	
7574.2	0.00	0.00	7354.0	-305.8	-1718.0	3.00	180.00	1745.0	EOB @ 1.60° Inc. / 250.14° Azm	
7680.9	1.60	250.14	7460.7	-306.4	-1719.4	1.50	250.14	1746.4	TD @ 11202.6' MD / 10981.0' TVD	
11202.6	1.60	250.14	10981.0	-339.8	-1812.0	0.00	0.00	1843.6	TD @ 11202.6' MD / 10981.0' TVD	



Plan: Design #2 (BJU M33 FED 25B-32 496/Wellbore #1)
 Created By: Will Jircik Date: 13:33, January 16 2020



Caerus Oil & Gas

Garfield County, CO

NPM M33 496 Pad

BJU M33 FED 25B-32 496 - Slot BJU M33 FED 25B-32 496

Wellbore #1

Plan: Design #2

QES Well Planning Report

16 January, 2020



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25B-32 496 - Slot BJU M33 FED 25B-32 496
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 25B-32 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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 25B-32 496 - Slot BJU M33 FED 25B-32 496					
Well Position	+N/-S	-2,649.5 usft	Northing:	14,412,313.80 usft	Latitude:	39.653356
	+E/-W	-12,277.7 usft	Easting:	2,434,824.00 usft	Longitude:	-108.177855
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 #2			
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	259.38

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		
225.0	0.00	0.00	225.0	0.0	0.0	0.00	0.00	0.00	0.00		
716.2	14.74	259.91	710.8	-11.0	-61.8	3.00	3.00	0.00	259.91		
7,083.0	14.74	259.91	6,868.2	-294.8	-1,656.2	0.00	0.00	0.00	0.00		
7,574.2	0.00	0.00	7,354.0	-305.8	-1,718.0	3.00	-3.00	0.00	180.00	OHCR - D#2 - BJ M	
7,680.9	1.60	250.14	7,460.7	-306.4	-1,719.4	1.50	1.50	-102.91	250.14		
11,202.6	1.60	250.14	10,981.0	-339.8	-1,812.0	0.00	0.00	0.00	0.00	PBHL - D#2 - BJ M:	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25B-32 496 - Slot BJU M33 FED 25B-32 496
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 25B-32 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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
Build 3° / 100'									
225.0	0.00	0.00	225.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	2.25	259.91	300.0	-0.3	-1.4	1.5	3.00	3.00	0.00
400.0	5.25	259.91	399.8	-1.4	-7.9	8.0	3.00	3.00	0.00
500.0	8.25	259.91	499.1	-3.5	-19.5	19.8	3.00	3.00	0.00
600.0	11.25	259.91	597.6	-6.4	-36.1	36.7	3.00	3.00	0.00
700.0	14.25	259.91	695.1	-10.3	-57.9	58.8	3.00	3.00	0.00
EOB @ 14.74° Inc. / 259.91° Azm									
716.2	14.74	259.91	710.8	-11.0	-61.8	62.8	3.00	3.00	0.00
800.0	14.74	259.91	791.8	-14.7	-82.8	84.1	0.00	0.00	0.00
900.0	14.74	259.91	888.6	-19.2	-107.9	109.6	0.00	0.00	0.00
1,000.0	14.74	259.91	985.3	-23.7	-132.9	135.0	0.00	0.00	0.00
1,100.0	14.74	259.91	1,082.0	-28.1	-158.0	160.4	0.00	0.00	0.00
1,200.0	14.74	259.91	1,178.7	-32.6	-183.0	185.9	0.00	0.00	0.00
1,300.0	14.74	259.91	1,275.4	-37.0	-208.0	211.3	0.00	0.00	0.00
1,400.0	14.74	259.91	1,372.1	-41.5	-233.1	236.7	0.00	0.00	0.00
1,500.0	14.74	259.91	1,468.8	-46.0	-258.1	262.2	0.00	0.00	0.00
1,600.0	14.74	259.91	1,565.5	-50.4	-283.2	287.6	0.00	0.00	0.00
1,700.0	14.74	259.91	1,662.2	-54.9	-308.2	313.0	0.00	0.00	0.00
1,800.0	14.74	259.91	1,759.0	-59.3	-333.2	338.5	0.00	0.00	0.00
1,900.0	14.74	259.91	1,855.7	-63.8	-358.3	363.9	0.00	0.00	0.00
2,000.0	14.74	259.91	1,952.4	-68.2	-383.3	389.3	0.00	0.00	0.00
2,100.0	14.74	259.91	2,049.1	-72.7	-408.4	414.8	0.00	0.00	0.00
2,200.0	14.74	259.91	2,145.8	-77.2	-433.4	440.2	0.00	0.00	0.00
Wasatch									
2,245.7	14.74	259.91	2,190.0	-79.2	-444.9	451.8	0.00	0.00	0.00
2,300.0	14.74	259.91	2,242.5	-81.6	-458.5	465.6	0.00	0.00	0.00
2,400.0	14.74	259.91	2,339.2	-86.1	-483.5	491.1	0.00	0.00	0.00
2,500.0	14.74	259.91	2,435.9	-90.5	-508.5	516.5	0.00	0.00	0.00
2,600.0	14.74	259.91	2,532.6	-95.0	-533.6	541.9	0.00	0.00	0.00
2,700.0	14.74	259.91	2,629.4	-99.4	-558.6	567.4	0.00	0.00	0.00
2,800.0	14.74	259.91	2,726.1	-103.9	-583.7	592.8	0.00	0.00	0.00
2,900.0	14.74	259.91	2,822.8	-108.4	-608.7	618.2	0.00	0.00	0.00
3,000.0	14.74	259.91	2,919.5	-112.8	-633.7	643.7	0.00	0.00	0.00
3,100.0	14.74	259.91	3,016.2	-117.3	-658.8	669.1	0.00	0.00	0.00
3,200.0	14.74	259.91	3,112.9	-121.7	-683.8	694.5	0.00	0.00	0.00
3,300.0	14.74	259.91	3,209.6	-126.2	-708.9	720.0	0.00	0.00	0.00
3,400.0	14.74	259.91	3,306.3	-130.7	-733.9	745.4	0.00	0.00	0.00
3,500.0	14.74	259.91	3,403.0	-135.1	-758.9	770.8	0.00	0.00	0.00
3,600.0	14.74	259.91	3,499.8	-139.6	-784.0	796.3	0.00	0.00	0.00
3,700.0	14.74	259.91	3,596.5	-144.0	-809.0	821.7	0.00	0.00	0.00
3,800.0	14.74	259.91	3,693.2	-148.5	-834.1	847.1	0.00	0.00	0.00
3,900.0	14.74	259.91	3,789.9	-152.9	-859.1	872.6	0.00	0.00	0.00
4,000.0	14.74	259.91	3,886.6	-157.4	-884.2	898.0	0.00	0.00	0.00
4,100.0	14.74	259.91	3,983.3	-161.9	-909.2	923.4	0.00	0.00	0.00
4,200.0	14.74	259.91	4,080.0	-166.3	-934.2	948.9	0.00	0.00	0.00
4,300.0	14.74	259.91	4,176.7	-170.8	-959.3	974.3	0.00	0.00	0.00
4,400.0	14.74	259.91	4,273.5	-175.2	-984.3	999.8	0.00	0.00	0.00
4,500.0	14.74	259.91	4,370.2	-179.7	-1,009.4	1,025.2	0.00	0.00	0.00
4,600.0	14.74	259.91	4,466.9	-184.1	-1,034.4	1,050.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25B-32 496 - Slot BJU M33 FED 25B-32 496
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 25B-32 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	14.74	259.91	4,563.6	-188.6	-1,059.4	1,076.1	0.00	0.00	0.00
4,800.0	14.74	259.91	4,660.3	-193.1	-1,084.5	1,101.5	0.00	0.00	0.00
4,900.0	14.74	259.91	4,757.0	-197.5	-1,109.5	1,126.9	0.00	0.00	0.00
5,000.0	14.74	259.91	4,853.7	-202.0	-1,134.6	1,152.4	0.00	0.00	0.00
5,100.0	14.74	259.91	4,950.4	-206.4	-1,159.6	1,177.8	0.00	0.00	0.00
5,200.0	14.74	259.91	5,047.1	-210.9	-1,184.6	1,203.2	0.00	0.00	0.00
5,300.0	14.74	259.91	5,143.9	-215.4	-1,209.7	1,228.7	0.00	0.00	0.00
Wasatch G									
5,347.7	14.74	259.91	5,190.0	-217.5	-1,221.6	1,240.8	0.00	0.00	0.00
5,400.0	14.74	259.91	5,240.6	-219.8	-1,234.7	1,254.1	0.00	0.00	0.00
5,500.0	14.74	259.91	5,337.3	-224.3	-1,259.8	1,279.5	0.00	0.00	0.00
5,600.0	14.74	259.91	5,434.0	-228.7	-1,284.8	1,305.0	0.00	0.00	0.00
Fort Union									
5,655.9	14.74	259.91	5,488.0	-231.2	-1,298.8	1,319.2	0.00	0.00	0.00
5,700.0	14.74	259.91	5,530.7	-233.2	-1,309.9	1,330.4	0.00	0.00	0.00
5,800.0	14.74	259.91	5,627.4	-237.6	-1,334.9	1,355.8	0.00	0.00	0.00
5,900.0	14.74	259.91	5,724.1	-242.1	-1,359.9	1,381.3	0.00	0.00	0.00
6,000.0	14.74	259.91	5,820.8	-246.6	-1,385.0	1,406.7	0.00	0.00	0.00
6,100.0	14.74	259.91	5,917.5	-251.0	-1,410.0	1,432.1	0.00	0.00	0.00
6,200.0	14.74	259.91	6,014.3	-255.5	-1,435.1	1,457.6	0.00	0.00	0.00
6,300.0	14.74	259.91	6,111.0	-259.9	-1,460.1	1,483.0	0.00	0.00	0.00
6,400.0	14.74	259.91	6,207.7	-264.4	-1,485.1	1,508.4	0.00	0.00	0.00
6,500.0	14.74	259.91	6,304.4	-268.9	-1,510.2	1,533.9	0.00	0.00	0.00
6,600.0	14.74	259.91	6,401.1	-273.3	-1,535.2	1,559.3	0.00	0.00	0.00
6,700.0	14.74	259.91	6,497.8	-277.8	-1,560.3	1,584.7	0.00	0.00	0.00
6,800.0	14.74	259.91	6,594.5	-282.2	-1,585.3	1,610.2	0.00	0.00	0.00
6,900.0	14.74	259.91	6,691.2	-286.7	-1,610.3	1,635.6	0.00	0.00	0.00
7,000.0	14.74	259.91	6,787.9	-291.1	-1,635.4	1,661.0	0.00	0.00	0.00
Drop 3° / 100'									
7,083.0	14.74	259.91	6,868.2	-294.8	-1,656.2	1,682.1	0.00	0.00	0.00
7,100.0	14.23	259.91	6,884.7	-295.6	-1,660.4	1,686.4	3.00	-3.00	0.00
7,200.0	11.23	259.91	6,982.2	-299.4	-1,682.0	1,708.4	3.00	-3.00	0.00
7,300.0	8.23	259.91	7,080.8	-302.4	-1,698.7	1,725.3	3.00	-3.00	0.00
7,400.0	5.23	259.91	7,180.1	-304.5	-1,710.2	1,737.0	3.00	-3.00	0.00
7,500.0	2.23	259.91	7,279.8	-305.6	-1,716.6	1,743.5	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
7,574.2	0.00	0.00	7,354.0	-305.8	-1,718.0	1,745.0	3.00	-3.00	0.00
7,600.0	0.39	250.14	7,379.8	-305.9	-1,718.1	1,745.0	1.50	1.50	0.00
EOB @ 1.60° Inc. / 250.14° Azm									
7,680.9	1.60	250.14	7,460.7	-306.4	-1,719.4	1,746.4	1.50	1.50	0.00
7,700.0	1.60	250.14	7,479.8	-306.5	-1,719.9	1,747.0	0.00	0.00	0.00
7,800.0	1.60	250.14	7,579.8	-307.5	-1,722.5	1,749.7	0.00	0.00	0.00
Williams Fork - TOG									
7,834.3	1.60	250.14	7,614.0	-307.8	-1,723.4	1,750.7	0.00	0.00	0.00
7,900.0	1.60	250.14	7,679.7	-308.4	-1,725.2	1,752.5	0.00	0.00	0.00
8,000.0	1.60	250.14	7,779.7	-309.4	-1,727.8	1,755.2	0.00	0.00	0.00
8,100.0	1.60	250.14	7,879.6	-310.3	-1,730.4	1,758.0	0.00	0.00	0.00
8,200.0	1.60	250.14	7,979.6	-311.3	-1,733.1	1,760.7	0.00	0.00	0.00
8,300.0	1.60	250.14	8,079.6	-312.2	-1,735.7	1,763.5	0.00	0.00	0.00
8,400.0	1.60	250.14	8,179.5	-313.2	-1,738.3	1,766.3	0.00	0.00	0.00
8,500.0	1.60	250.14	8,279.5	-314.1	-1,740.9	1,769.0	0.00	0.00	0.00
8,600.0	1.60	250.14	8,379.4	-315.1	-1,743.6	1,771.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25B-32 496 - Slot BJU M33 FED 25B-32 496
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 25B-32 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	1.60	250.14	8,479.4	-316.0	-1,746.2	1,774.5	0.00	0.00	0.00	
8,800.0	1.60	250.14	8,579.4	-317.0	-1,748.8	1,777.3	0.00	0.00	0.00	
8,900.0	1.60	250.14	8,679.3	-317.9	-1,751.5	1,780.1	0.00	0.00	0.00	
9,000.0	1.60	250.14	8,779.3	-318.9	-1,754.1	1,782.8	0.00	0.00	0.00	
9,100.0	1.60	250.14	8,879.2	-319.8	-1,756.7	1,785.6	0.00	0.00	0.00	
9,200.0	1.60	250.14	8,979.2	-320.8	-1,759.3	1,788.3	0.00	0.00	0.00	
9,300.0	1.60	250.14	9,079.2	-321.7	-1,762.0	1,791.1	0.00	0.00	0.00	
9,400.0	1.60	250.14	9,179.1	-322.7	-1,764.6	1,793.8	0.00	0.00	0.00	
9,500.0	1.60	250.14	9,279.1	-323.6	-1,767.2	1,796.6	0.00	0.00	0.00	
9,600.0	1.60	250.14	9,379.1	-324.6	-1,769.9	1,799.4	0.00	0.00	0.00	
9,700.0	1.60	250.14	9,479.0	-325.5	-1,772.5	1,802.1	0.00	0.00	0.00	
9,800.0	1.60	250.14	9,579.0	-326.5	-1,775.1	1,804.9	0.00	0.00	0.00	
9,900.0	1.60	250.14	9,678.9	-327.4	-1,777.7	1,807.6	0.00	0.00	0.00	
10,000.0	1.60	250.14	9,778.9	-328.4	-1,780.4	1,810.4	0.00	0.00	0.00	
10,100.0	1.60	250.14	9,878.9	-329.3	-1,783.0	1,813.2	0.00	0.00	0.00	
10,200.0	1.60	250.14	9,978.8	-330.3	-1,785.6	1,815.9	0.00	0.00	0.00	
10,300.0	1.60	250.14	10,078.8	-331.2	-1,788.3	1,818.7	0.00	0.00	0.00	
Cameo										
10,356.2	1.60	250.14	10,135.0	-331.8	-1,789.7	1,820.2	0.00	0.00	0.00	
10,400.0	1.60	250.14	10,178.7	-332.2	-1,790.9	1,821.4	0.00	0.00	0.00	
10,500.0	1.60	250.14	10,278.7	-333.1	-1,793.5	1,824.2	0.00	0.00	0.00	
10,600.0	1.60	250.14	10,378.7	-334.1	-1,796.1	1,826.9	0.00	0.00	0.00	
10,700.0	1.60	250.14	10,478.6	-335.0	-1,798.8	1,829.7	0.00	0.00	0.00	
10,800.0	1.60	250.14	10,578.6	-336.0	-1,801.4	1,832.5	0.00	0.00	0.00	
10,900.0	1.60	250.14	10,678.5	-336.9	-1,804.0	1,835.2	0.00	0.00	0.00	
11,000.0	1.60	250.14	10,778.5	-337.9	-1,806.7	1,838.0	0.00	0.00	0.00	
Rollins										
11,002.5	1.60	250.14	10,781.0	-337.9	-1,806.7	1,838.0	0.00	0.00	0.00	
11,100.0	1.60	250.14	10,878.5	-338.8	-1,809.3	1,840.7	0.00	0.00	0.00	
TD @ 11202.6' MD / 10981.0' TVD										
11,202.6	1.60	250.14	10,981.0	-339.8	-1,812.0	1,843.6	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 - D#2 - BJ M33 - hit/miss target - Shape - Point	0.00	0.00	7,354.0	-305.8	-1,718.0	14,411,954.08	2,433,116.45	39.652516	-108.183954	
PBHL - D#2 - BJ M33 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	10,981.0	-339.8	-1,812.0	14,411,917.20	2,433,023.60	39.652423	-108.184288	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 25B-32 496 - Slot BJU M33 FED 25B-32 496
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 25B-32 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,245.7	2,190.0	Wasatch				
5,347.7	5,190.0	Wasatch G				
5,655.9	5,488.0	Fort Union				
7,574.2	7,354.0	Ohio Creek				
7,834.3	7,614.0	Williams Fork				
7,834.3	7,614.0	TOG				
10,356.2	10,135.0	Cameo				
11,002.5	10,781.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
225.0	225.0	0.0	0.0	Build 3° / 100'	
716.2	710.8	-11.0	-61.8	EOB @ 14.74° Inc. / 259.91° Azm	
7,083.0	6,868.2	-294.8	-1,656.2	Drop 3° / 100'	
7,574.2	7,354.0	-305.8	-1,718.0	EOD @ Vertical / Build 1.5° / 100'	
7,680.9	7,460.7	-306.4	-1,719.4	EOB @ 1.60° Inc. / 250.14° Azm	
11,202.6	10,981.0	-339.8	-1,812.0	TD @ 11202.6' MD / 10981.0' TVD	