

Project: Garfield County, CO
 Site: NPM M33 496 Pad
 Well: BJU M33 FED 23D-32 496
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.653618
 Longitude: -108.177722
 Ground Level: 8401.0
 RKB @ 8431.0usft (H&P #329)

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
2279.0	2378.9	Wasatch	
5279.0	5579.1	Wasatch G	
5556.0	5874.6	Fort Union	
7404.0	7815.8	Ohio Creek	
7678.0	8089.9	TOG	
7678.0	8089.9	Williams Fork	
10221.0	10633.8	Cameo	
10867.0	11280.1	Rollins	

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well BJU M33 FED 23D-32 496 - Slot BJU M33 FED 23D-32 496, True North
 Vertical (TVD) Reference: RKB @ 8431.0usft (H&P #329)
 Section (VS) Reference: Slot - BJU M33 FED 23D-32 496(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8431.0usft (H&P #329)
 Calculation Method: Minimum Curvature

WELL DETAILS: BJU M33 FED 23D-32 496

8401.0
 +N/-S 0.0 +E/-W 0.0 Northing 14412410.60 Easting 2434858.30 Latitude 39.653618 Longitude -108.177722

PROJECT DETAILS: Garfield County, CO

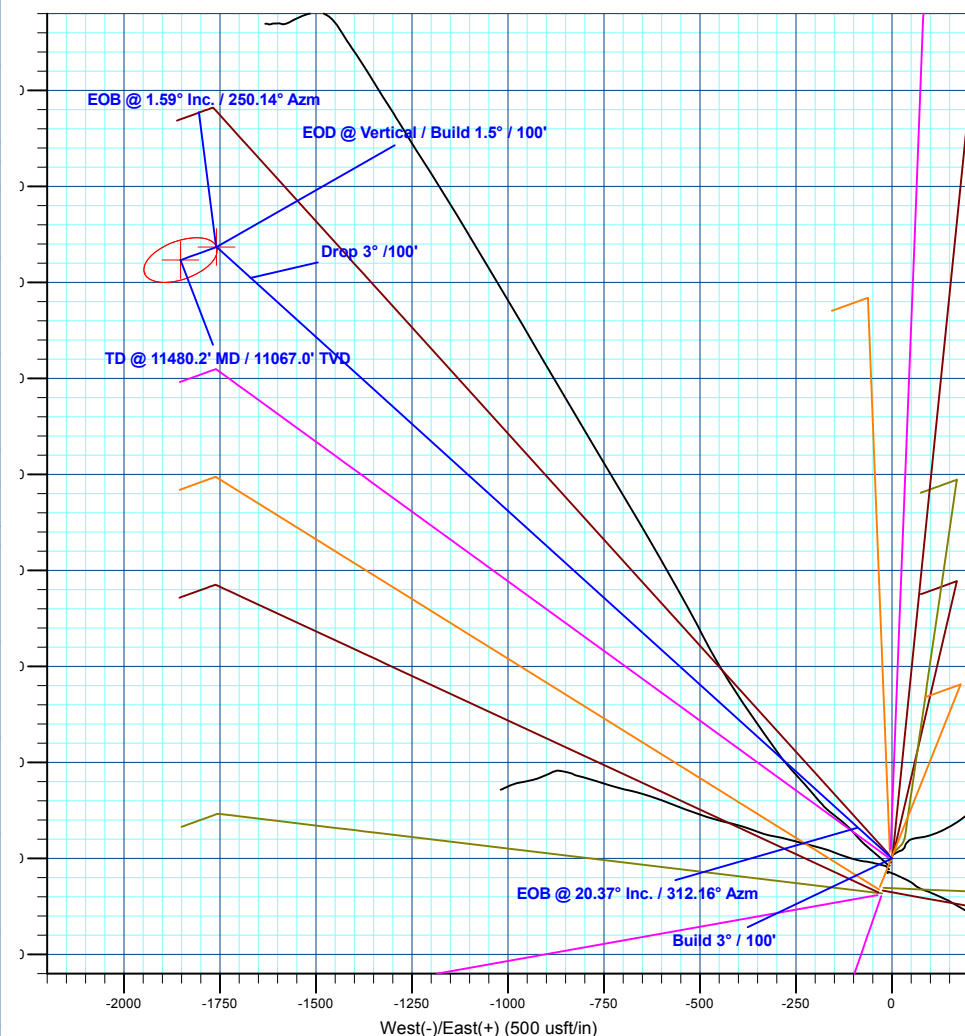
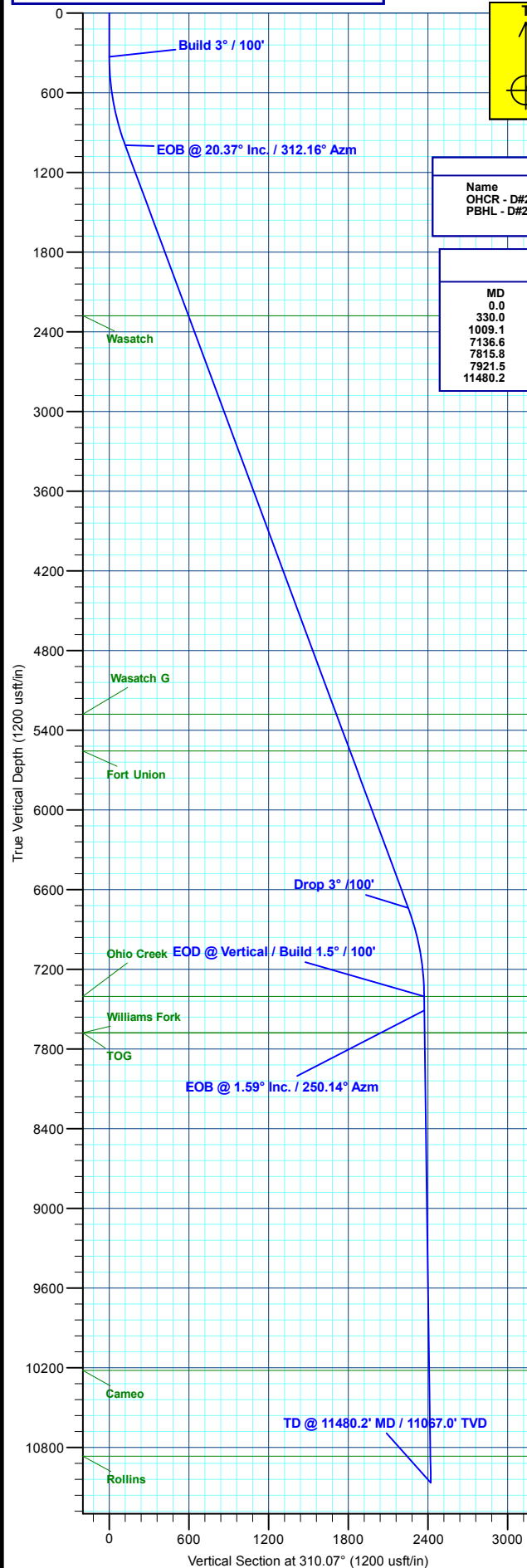
Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 System Datum: Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - D#2 - BJ M33 23D-32 496	7404.0	1592.2	-1758.6	14413946.68	2433050.55	39.657988	-108.183966
PBHL - D#2 - BJ M33 23D-32 496	11067.0	1558.2	-1852.5	14413909.80	2432957.70	39.657895	-108.184300

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	
330.0	0.00	0.00	330.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1009.1	20.37	312.16	994.9	80.2	-88.6	3.00	312.16	119.4	EOB @ 20.37° Inc. / 312.16° Azm
7136.6	20.37	312.16	6739.1	1512.0	-1670.0	0.00	0.00	2251.3	Drop 3° / 100'
7815.8	0.00	0.00	7404.0	1592.2	-1758.6	3.00	180.00	2370.7	EOD @ Vertical / Build 1.5° / 100'
7921.5	1.59	250.14	7509.7	1591.7	-1759.9	1.50	250.14	2371.4	EOB @ 1.59° Inc. / 250.14° Azm
11480.2	1.59	250.14	11067.0	1558.2	-1852.5	0.00	0.00	2420.7	TD @ 11480.2° MD / 11067.0° TVD



Plan: Design #2 (BJU M33 FED 23D-32 496/Wellbore #1)

Created By: Will Jircik

Date: 13:08, January 16 2020



Caerus Oil & Gas

Garfield County, CO

NPM M33 496 Pad

BJU M33 FED 23D-32 496 - Slot BJU M33 FED 23D-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 23D-32 496 - Slot BJU M33 FED 23D-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 23D-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
From:	Map	Easting:	2,447,010.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39.660635
		Longitude:	-108.134267
		Grid Convergence:	1.83 °

Well	BJU M33 FED 23D-32 496 - Slot BJU M33 FED 23D-32 496		
Well Position	+N/-S	-2,553.8 usft	Northing: 14,412,410.60 usft
	+E/-W	-12,240.3 usft	Easting: 2,434,858.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39.653618
			Longitude: -108.177723
			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	51,258.70000000

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	310.07	

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	
330.0	0.00	0.00	330.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,009.1	20.37	312.16	994.9	80.2	-88.6	3.00	3.00	0.00	312.16	
7,136.6	20.37	312.16	6,739.1	1,512.0	-1,670.0	0.00	0.00	0.00	0.00	
7,815.8	0.00	0.00	7,404.0	1,592.2	-1,758.6	3.00	-3.00	0.00	180.00	OHCR - D#2 - BJ M
7,921.5	1.59	250.14	7,509.7	1,591.7	-1,759.9	1.50	1.50	-103.96	250.14	
11,480.2	1.59	250.14	11,067.0	1,558.2	-1,852.5	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 23D-32 496 - Slot BJU M33 FED 23D-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 23D-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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 3° / 100'									
330.0	0.00	0.00	330.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.10	312.16	400.0	0.9	-1.0	1.3	3.00	3.00	0.00
500.0	5.10	312.16	499.8	5.1	-5.6	7.6	3.00	3.00	0.00
600.0	8.10	312.16	599.1	12.8	-14.1	19.0	3.00	3.00	0.00
700.0	11.10	312.16	697.7	24.0	-26.5	35.7	3.00	3.00	0.00
800.0	14.10	312.16	795.3	38.6	-42.7	57.5	3.00	3.00	0.00
900.0	17.10	312.16	891.6	56.7	-62.6	84.4	3.00	3.00	0.00
EOB @ 20.37° Inc. / 312.16° Azm									
1,009.1	20.37	312.16	994.9	80.2	-88.6	119.4	3.00	3.00	0.00
1,100.0	20.37	312.16	1,080.1	101.4	-112.0	151.0	0.00	0.00	0.00
1,200.0	20.37	312.16	1,173.8	124.8	-137.8	185.8	0.00	0.00	0.00
1,300.0	20.37	312.16	1,267.6	148.2	-163.6	220.6	0.00	0.00	0.00
1,400.0	20.37	312.16	1,361.3	171.5	-189.4	255.4	0.00	0.00	0.00
1,500.0	20.37	312.16	1,455.1	194.9	-215.3	290.2	0.00	0.00	0.00
1,600.0	20.37	312.16	1,548.8	218.3	-241.1	325.0	0.00	0.00	0.00
1,700.0	20.37	312.16	1,642.6	241.6	-266.9	359.8	0.00	0.00	0.00
1,800.0	20.37	312.16	1,736.3	265.0	-292.7	394.6	0.00	0.00	0.00
1,900.0	20.37	312.16	1,830.0	288.4	-318.5	429.3	0.00	0.00	0.00
2,000.0	20.37	312.16	1,923.8	311.7	-344.3	464.1	0.00	0.00	0.00
2,100.0	20.37	312.16	2,017.5	335.1	-370.1	498.9	0.00	0.00	0.00
2,200.0	20.37	312.16	2,111.3	358.5	-395.9	533.7	0.00	0.00	0.00
2,300.0	20.37	312.16	2,205.0	381.8	-421.7	568.5	0.00	0.00	0.00
Wasatch									
2,378.9	20.37	312.16	2,279.0	400.3	-442.1	596.0	0.00	0.00	0.00
2,400.0	20.37	312.16	2,298.8	405.2	-447.5	603.3	0.00	0.00	0.00
2,500.0	20.37	312.16	2,392.5	428.6	-473.3	638.1	0.00	0.00	0.00
2,600.0	20.37	312.16	2,486.3	451.9	-499.1	672.9	0.00	0.00	0.00
2,700.0	20.37	312.16	2,580.0	475.3	-525.0	707.7	0.00	0.00	0.00
2,800.0	20.37	312.16	2,673.7	498.7	-550.8	742.5	0.00	0.00	0.00
2,900.0	20.37	312.16	2,767.5	522.0	-576.6	777.3	0.00	0.00	0.00
3,000.0	20.37	312.16	2,861.2	545.4	-602.4	812.1	0.00	0.00	0.00
3,100.0	20.37	312.16	2,955.0	568.8	-628.2	846.8	0.00	0.00	0.00
3,200.0	20.37	312.16	3,048.7	592.1	-654.0	881.6	0.00	0.00	0.00
3,300.0	20.37	312.16	3,142.5	615.5	-679.8	916.4	0.00	0.00	0.00
3,400.0	20.37	312.16	3,236.2	638.9	-705.6	951.2	0.00	0.00	0.00
3,500.0	20.37	312.16	3,329.9	662.2	-731.4	986.0	0.00	0.00	0.00
3,600.0	20.37	312.16	3,423.7	685.6	-757.2	1,020.8	0.00	0.00	0.00
3,700.0	20.37	312.16	3,517.4	709.0	-783.0	1,055.6	0.00	0.00	0.00
3,800.0	20.37	312.16	3,611.2	732.3	-808.8	1,090.4	0.00	0.00	0.00
3,900.0	20.37	312.16	3,704.9	755.7	-834.7	1,125.2	0.00	0.00	0.00
4,000.0	20.37	312.16	3,798.7	779.1	-860.5	1,160.0	0.00	0.00	0.00
4,100.0	20.37	312.16	3,892.4	802.4	-886.3	1,194.8	0.00	0.00	0.00
4,200.0	20.37	312.16	3,986.2	825.8	-912.1	1,229.6	0.00	0.00	0.00
4,300.0	20.37	312.16	4,079.9	849.2	-937.9	1,264.3	0.00	0.00	0.00
4,400.0	20.37	312.16	4,173.6	872.5	-963.7	1,299.1	0.00	0.00	0.00
4,500.0	20.37	312.16	4,267.4	895.9	-989.5	1,333.9	0.00	0.00	0.00
4,600.0	20.37	312.16	4,361.1	919.2	-1,015.3	1,368.7	0.00	0.00	0.00
4,700.0	20.37	312.16	4,454.9	942.6	-1,041.1	1,403.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 23D-32 496 - Slot BJU M33 FED 23D-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 23D-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)
4,800.0	20.37	312.16	4,548.6	966.0	-1,066.9	1,438.3	0.00	0.00	0.00
4,900.0	20.37	312.16	4,642.4	989.3	-1,092.7	1,473.1	0.00	0.00	0.00
5,000.0	20.37	312.16	4,736.1	1,012.7	-1,118.5	1,507.9	0.00	0.00	0.00
5,100.0	20.37	312.16	4,829.9	1,036.1	-1,144.4	1,542.7	0.00	0.00	0.00
5,200.0	20.37	312.16	4,923.6	1,059.4	-1,170.2	1,577.5	0.00	0.00	0.00
5,300.0	20.37	312.16	5,017.3	1,082.8	-1,196.0	1,612.3	0.00	0.00	0.00
5,400.0	20.37	312.16	5,111.1	1,106.2	-1,221.8	1,647.1	0.00	0.00	0.00
5,500.0	20.37	312.16	5,204.8	1,129.5	-1,247.6	1,681.8	0.00	0.00	0.00
Wasatch G									
5,579.1	20.37	312.16	5,279.0	1,148.0	-1,268.0	1,709.4	0.00	0.00	0.00
5,600.0	20.37	312.16	5,298.6	1,152.9	-1,273.4	1,716.6	0.00	0.00	0.00
5,700.0	20.37	312.16	5,392.3	1,176.3	-1,299.2	1,751.4	0.00	0.00	0.00
5,800.0	20.37	312.16	5,486.1	1,199.6	-1,325.0	1,786.2	0.00	0.00	0.00
Fort Union									
5,874.6	20.37	312.16	5,556.0	1,217.1	-1,344.3	1,812.2	0.00	0.00	0.00
5,900.0	20.37	312.16	5,579.8	1,223.0	-1,350.8	1,821.0	0.00	0.00	0.00
6,000.0	20.37	312.16	5,673.5	1,246.4	-1,376.6	1,855.8	0.00	0.00	0.00
6,100.0	20.37	312.16	5,767.3	1,269.7	-1,402.4	1,890.6	0.00	0.00	0.00
6,200.0	20.37	312.16	5,861.0	1,293.1	-1,428.2	1,925.4	0.00	0.00	0.00
6,300.0	20.37	312.16	5,954.8	1,316.5	-1,454.1	1,960.2	0.00	0.00	0.00
6,400.0	20.37	312.16	6,048.5	1,339.8	-1,479.9	1,995.0	0.00	0.00	0.00
6,500.0	20.37	312.16	6,142.3	1,363.2	-1,505.7	2,029.8	0.00	0.00	0.00
6,600.0	20.37	312.16	6,236.0	1,386.6	-1,531.5	2,064.6	0.00	0.00	0.00
6,700.0	20.37	312.16	6,329.8	1,409.9	-1,557.3	2,099.3	0.00	0.00	0.00
6,800.0	20.37	312.16	6,423.5	1,433.3	-1,583.1	2,134.1	0.00	0.00	0.00
6,900.0	20.37	312.16	6,517.2	1,456.7	-1,608.9	2,168.9	0.00	0.00	0.00
7,000.0	20.37	312.16	6,611.0	1,480.0	-1,634.7	2,203.7	0.00	0.00	0.00
7,100.0	20.37	312.16	6,704.7	1,503.4	-1,660.5	2,238.5	0.00	0.00	0.00
Drop 3° /100'									
7,136.6	20.37	312.16	6,739.1	1,512.0	-1,670.0	2,251.3	0.00	0.00	0.00
7,200.0	18.47	312.16	6,798.8	1,526.1	-1,685.6	2,272.3	3.00	-3.00	0.00
7,300.0	15.47	312.16	6,894.5	1,545.7	-1,707.2	2,301.5	3.00	-3.00	0.00
7,400.0	12.47	312.16	6,991.5	1,561.9	-1,725.1	2,325.6	3.00	-3.00	0.00
7,500.0	9.47	312.16	7,089.7	1,574.7	-1,739.2	2,344.6	3.00	-3.00	0.00
7,600.0	6.47	312.16	7,188.7	1,584.0	-1,749.5	2,358.5	3.00	-3.00	0.00
7,700.0	3.47	312.16	7,288.3	1,589.8	-1,756.0	2,367.2	3.00	-3.00	0.00
7,800.0	0.47	312.16	7,388.2	1,592.1	-1,758.5	2,370.6	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
7,815.8	0.00	0.00	7,404.0	1,592.2	-1,758.6	2,370.7	3.00	-3.00	0.00
7,900.0	1.26	250.14	7,488.2	1,591.9	-1,759.4	2,371.1	1.50	1.50	0.00
EOB @ 1.59° Inc. / 250.14° Azm									
7,921.5	1.59	250.14	7,509.7	1,591.7	-1,759.9	2,371.4	1.50	1.50	0.00
8,000.0	1.59	250.14	7,588.2	1,590.9	-1,762.0	2,372.5	0.00	0.00	0.00
Williams Fork - TOG									
8,089.9	1.59	250.14	7,678.0	1,590.1	-1,764.3	2,373.7	0.00	0.00	0.00
8,100.0	1.59	250.14	7,688.1	1,590.0	-1,764.6	2,373.9	0.00	0.00	0.00
8,200.0	1.59	250.14	7,788.1	1,589.1	-1,767.2	2,375.3	0.00	0.00	0.00
8,300.0	1.59	250.14	7,888.1	1,588.1	-1,769.8	2,376.6	0.00	0.00	0.00
8,400.0	1.59	250.14	7,988.0	1,587.2	-1,772.4	2,378.0	0.00	0.00	0.00
8,500.0	1.59	250.14	8,088.0	1,586.2	-1,775.0	2,379.4	0.00	0.00	0.00
8,600.0	1.59	250.14	8,187.9	1,585.3	-1,777.6	2,380.8	0.00	0.00	0.00
8,700.0	1.59	250.14	8,287.9	1,584.4	-1,780.2	2,382.2	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 23D-32 496 - Slot BJU M33 FED 23D-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 23D-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)
8,800.0	1.59	250.14	8,387.9	1,583.4	-1,782.8	2,383.6	0.00	0.00	0.00
8,900.0	1.59	250.14	8,487.8	1,582.5	-1,785.4	2,385.0	0.00	0.00	0.00
9,000.0	1.59	250.14	8,587.8	1,581.5	-1,788.0	2,386.3	0.00	0.00	0.00
9,100.0	1.59	250.14	8,687.8	1,580.6	-1,790.6	2,387.7	0.00	0.00	0.00
9,200.0	1.59	250.14	8,787.7	1,579.7	-1,793.2	2,389.1	0.00	0.00	0.00
9,300.0	1.59	250.14	8,887.7	1,578.7	-1,795.8	2,390.5	0.00	0.00	0.00
9,400.0	1.59	250.14	8,987.6	1,577.8	-1,798.4	2,391.9	0.00	0.00	0.00
9,500.0	1.59	250.14	9,087.6	1,576.8	-1,801.0	2,393.3	0.00	0.00	0.00
9,600.0	1.59	250.14	9,187.6	1,575.9	-1,803.6	2,394.7	0.00	0.00	0.00
9,700.0	1.59	250.14	9,287.5	1,575.0	-1,806.2	2,396.0	0.00	0.00	0.00
9,800.0	1.59	250.14	9,387.5	1,574.0	-1,808.8	2,397.4	0.00	0.00	0.00
9,900.0	1.59	250.14	9,487.4	1,573.1	-1,811.4	2,398.8	0.00	0.00	0.00
10,000.0	1.59	250.14	9,587.4	1,572.1	-1,814.0	2,400.2	0.00	0.00	0.00
10,100.0	1.59	250.14	9,687.4	1,571.2	-1,816.6	2,401.6	0.00	0.00	0.00
10,200.0	1.59	250.14	9,787.3	1,570.3	-1,819.2	2,403.0	0.00	0.00	0.00
10,300.0	1.59	250.14	9,887.3	1,569.3	-1,821.8	2,404.4	0.00	0.00	0.00
10,400.0	1.59	250.14	9,987.3	1,568.4	-1,824.4	2,405.7	0.00	0.00	0.00
10,500.0	1.59	250.14	10,087.2	1,567.4	-1,827.0	2,407.1	0.00	0.00	0.00
10,600.0	1.59	250.14	10,187.2	1,566.5	-1,829.6	2,408.5	0.00	0.00	0.00
Cameo									
10,633.8	1.59	250.14	10,221.0	1,566.2	-1,830.5	2,409.0	0.00	0.00	0.00
10,700.0	1.59	250.14	10,287.1	1,565.6	-1,832.2	2,409.9	0.00	0.00	0.00
10,800.0	1.59	250.14	10,387.1	1,564.6	-1,834.8	2,411.3	0.00	0.00	0.00
10,900.0	1.59	250.14	10,487.1	1,563.7	-1,837.4	2,412.7	0.00	0.00	0.00
11,000.0	1.59	250.14	10,587.0	1,562.7	-1,840.0	2,414.1	0.00	0.00	0.00
11,100.0	1.59	250.14	10,687.0	1,561.8	-1,842.6	2,415.4	0.00	0.00	0.00
11,200.0	1.59	250.14	10,787.0	1,560.9	-1,845.2	2,416.8	0.00	0.00	0.00
Rollins									
11,280.1	1.59	250.14	10,867.0	1,560.1	-1,847.3	2,417.9	0.00	0.00	0.00
11,300.0	1.59	250.14	10,886.9	1,559.9	-1,847.8	2,418.2	0.00	0.00	0.00
11,400.0	1.59	250.14	10,986.9	1,559.0	-1,850.4	2,419.6	0.00	0.00	0.00
TD @ 11480.2' MD / 11067.0' TVD									
11,480.2	1.59	250.14	11,067.0	1,558.2	-1,852.5	2,420.7	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
- hit/miss target									
- Shape									
OHCR - D#2 - BJ M33	0.00	0.00	7,404.0	1,592.2	-1,758.6	14,413,946.68	2,433,050.55	39.657988	-108.183966
- plan hits target center									
- Point									
PBHL - D#2 - BJ M33	0.00	0.00	11,067.0	1,558.2	-1,852.5	14,413,909.80	2,432,957.70	39.657895	-108.184300
- plan hits target center									
- Ellipse (radii L100.0 W50.0 on 250.00 azi)									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M33 FED 23D-32 496 - Slot BJU M33 FED 23D-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 23D-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 (°)	
2,378.9	2,279.0	Wasatch				
5,579.1	5,279.0	Wasatch G				
5,874.6	5,556.0	Fort Union				
7,815.8	7,404.0	Ohio Creek				
8,089.9	7,678.0	Williams Fork				
8,089.9	7,678.0	TOG				
10,633.8	10,221.0	Cameo				
11,280.1	10,867.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
330.0	330.0	0.0	0.0	Build 3° / 100'	
1,009.1	994.9	80.2	-88.6	EOB @ 20.37° Inc. / 312.16° Azm	
7,136.6	6,739.1	1,512.0	-1,670.0	Drop 3° / 100'	
7,815.8	7,404.0	1,592.2	-1,758.6	EOD @ Vertical / Build 1.5° / 100'	
7,921.5	7,509.7	1,591.7	-1,759.9	EOB @ 1.59° Inc. / 250.14° Azm	
11,480.2	11,067.0	1,558.2	-1,852.5	TD @ 11480.2' MD / 11067.0' TVD	