

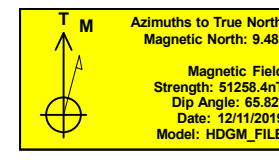
Project: Garfield County, CO  
 Site: NPM M33 496 Pad  
 Well: BJU M33 FED 13D-33 496  
 Wellbore: Wellbore #1  
 Design: Design #1  
 Latitude: 39.653666  
 Longitude: -108.177742  
 Ground Level: 8401.0  
 RKB @ 8431.0usft (H&P #329)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2387.0	2428.0	Wasatch
5387.0	5495.1	Wasatch G
5639.0	5752.8	Fort Union
7476.0	7624.9	Ohio Creek
7739.0	7888.0	TOG
7739.0	7888.0	Williams Fork
10337.0	10487.0	Cameo
10968.0	11118.2	Rollins

REFERENCE INFORMATION	
Co-ordinate (N/E) Reference:	Well BJU M33 FED 13D-33 496 - Slot BJU M33 FED 13D-33 496, True North
Vertical (TVD) Reference:	RKB @ 8431.0usft (H&P #329)
Section (VS) Reference:	Slot - BJU M33 FED 13D-33 496(0.0N, 0.0E)
Measured Depth Reference:	RKB @ 8431.0usft (H&P #329)
Calculation Method:	Minimum Curvature

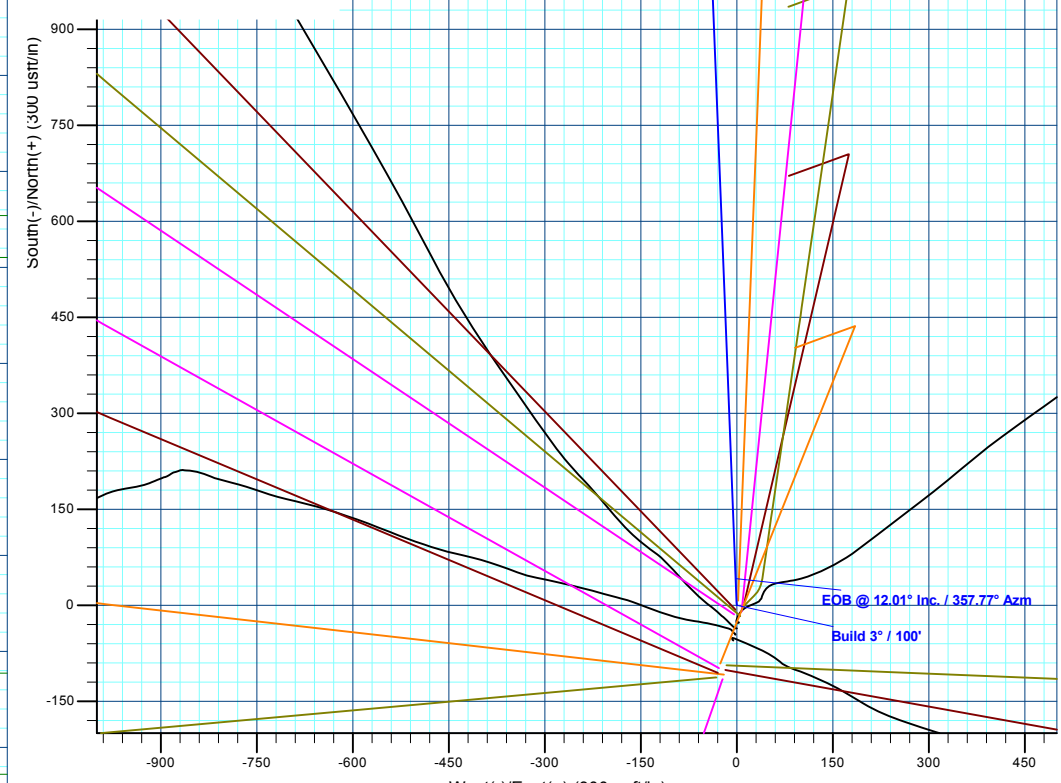
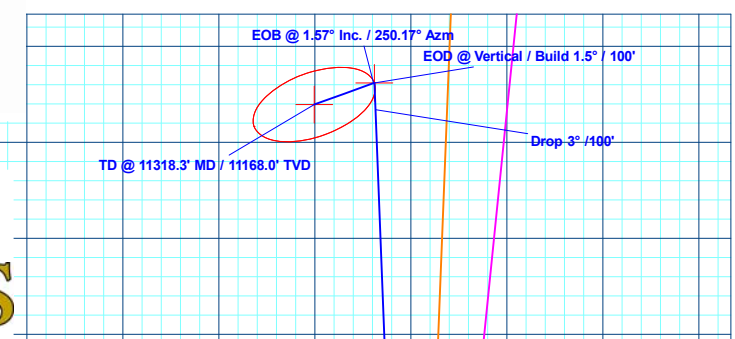
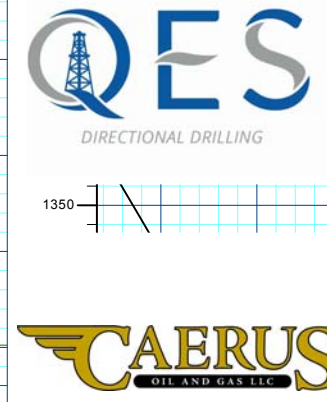
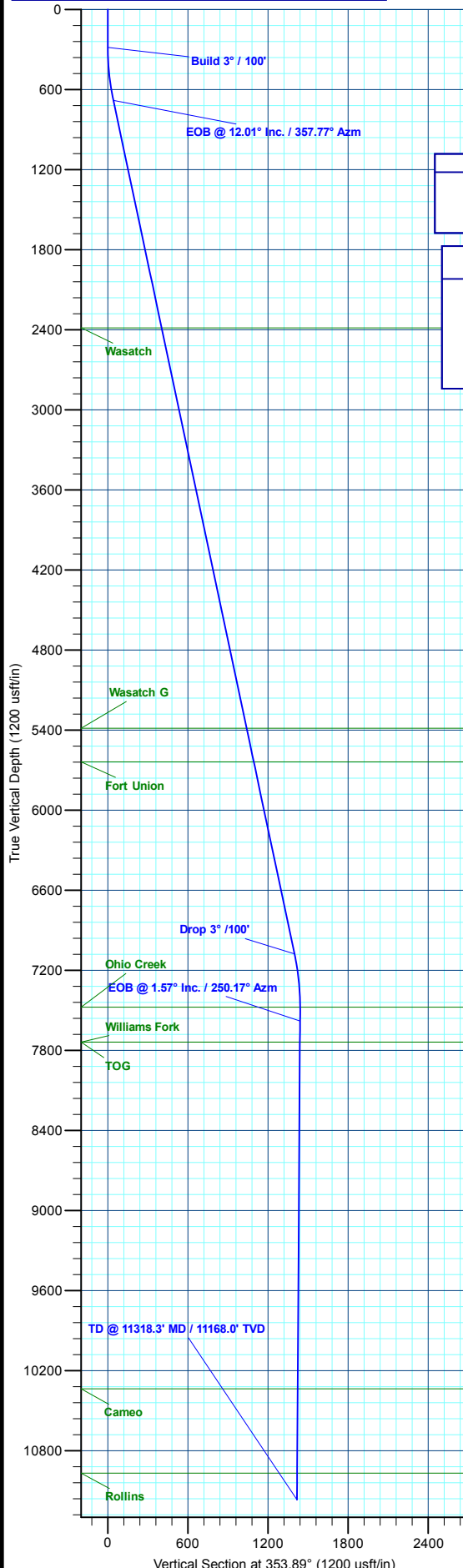
WELL DETAILS: BJU M33 FED 13D-33 496					
			8401.0		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14412427.60	2434852.20	39.653666	BJU M33 FED 13D-33 496

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



DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
OHCR - BJU M33 FED 13D-33 496	7476.0	1442.8	-56.9	14413867.88	2434749.95	39.657625
PBHL - BJU M33 FED 13D-33 496	11168.0	1408.8	-150.9	14413831.00	2434657.10	39.657532

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		
285.0	0.00	0.00	285.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'	
685.2	12.01	357.74	682.3	41.7	-1.6	3.00	357.74	41.7	EOB @ 12.01° Inc. / 357.77° Azm	
7224.7	12.01	357.74	7078.7	1401.0	-55.3	0.00	0.00	0.00	Drop 3° / 100'	
7624.9	0.00	0.00	7476.0	1442.8	-56.9	3.00	180.00	1399.0	EOD @ Vertical / Build 1.5° / 100'	
7729.7	1.57	250.14	7580.8	1442.3	-58.3	1.50	250.14	1440.3	EOB @ 1.57° Inc. / 250.17° Azm	
11318.3	1.57	250.14	11168.0	1408.8	-150.9	0.00	0.00	1416.9	TD @ 11318.3' MD / 11168.0' TVD	



Plan: Design #1 (BJU M33 FED 13D-33 496/Wellbore #1)  
 Created By: Will Jircik Date: 14:40, December 16 2019



## **Caerus Oil & Gas**

**Garfield County, CO**

**NPM M33 496 Pad**

**BJU M33 FED 13D-33 496 - Slot BJU M33 FED 13D-33 496**

**Wellbore #1**

**Plan: Design #1**

## **QES Well Planning Report**

**16 December, 2019**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M33 FED 13D-33 496 - Slot BJU M33 FED 13D-33 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Site:</b>	NPM M33 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M33 FED 13D-33 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	Garfield County, CO		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	NPM M33 496 Pad				
<b>Site Position:</b>		<b>Northing:</b>	14,415,354.00 usft	<b>Latitude:</b>	39.660635
<b>From:</b>	Map	<b>Easting:</b>	2,447,010.80 usft	<b>Longitude:</b>	-108.134267
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	1.83 °

<b>Well</b>	BJU M33 FED 13D-33 496 - Slot BJU M33 FED 13D-33 496					
<b>Well Position</b>	<b>+N/-S</b>	-2,536.6 usft	<b>Northing:</b>	14,412,427.60 usft	<b>Latitude:</b>	39.653666
	<b>+E/-W</b>	-12,245.9 usft	<b>Easting:</b>	2,434,852.20 usft	<b>Longitude:</b>	-108.177742
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	8,401.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM_FILE	12/11/2019	9.48	65.82	51,258.40000000

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	353.89

<b>Plan Sections</b>											
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		
285.0	0.00	0.00	285.0	0.0	0.0	0.00	0.00	0.00	0.00		
685.2	12.01	357.74	682.3	41.7	-1.6	3.00	3.00	0.00	357.74		
7,224.7	12.01	357.74	7,078.7	1,401.0	-55.3	0.00	0.00	0.00	0.00		
7,624.9	0.00	0.00	7,476.0	1,442.8	-56.9	3.00	-3.00	0.00	180.00	OHCR - BJU M33 F	
7,729.7	1.57	250.14	7,580.8	1,442.3	-58.3	1.50	1.50	-104.80	250.14		
11,318.3	1.57	250.14	11,168.0	1,408.8	-150.9	0.00	0.00	0.00	0.00	PBHL - BJU M33 FI	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M33 FED 13D-33 496 - Slot BJU M33 FED 13D-33 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Site:</b>	NPM M33 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M33 FED 13D-33 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
<b>Build 3° / 100'</b>									
285.0	0.00	0.00	285.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.45	357.74	300.0	0.1	0.0	0.1	3.00	3.00	0.00
400.0	3.45	357.74	399.9	3.5	-0.1	3.5	3.00	3.00	0.00
500.0	6.45	357.74	499.5	12.1	-0.5	12.1	3.00	3.00	0.00
600.0	9.45	357.74	598.6	25.9	-1.0	25.9	3.00	3.00	0.00
<b>EOB @ 12.01° Inc. / 357.77° Azm</b>									
685.2	12.01	357.74	682.3	41.7	-1.6	41.7	3.00	3.00	0.00
700.0	12.01	357.74	696.8	44.8	-1.8	44.8	0.00	0.00	0.00
800.0	12.01	357.74	794.6	65.6	-2.6	65.5	0.00	0.00	0.00
900.0	12.01	357.74	892.4	86.4	-3.4	86.3	0.00	0.00	0.00
1,000.0	12.01	357.74	990.2	107.2	-4.2	107.0	0.00	0.00	0.00
1,100.0	12.01	357.74	1,088.0	128.0	-5.0	127.8	0.00	0.00	0.00
1,200.0	12.01	357.74	1,185.8	148.8	-5.9	148.5	0.00	0.00	0.00
1,300.0	12.01	357.74	1,283.6	169.5	-6.7	169.3	0.00	0.00	0.00
1,400.0	12.01	357.74	1,381.4	190.3	-7.5	190.0	0.00	0.00	0.00
1,500.0	12.01	357.74	1,479.3	211.1	-8.3	210.8	0.00	0.00	0.00
1,600.0	12.01	357.74	1,577.1	231.9	-9.1	231.5	0.00	0.00	0.00
1,700.0	12.01	357.74	1,674.9	252.7	-10.0	252.3	0.00	0.00	0.00
1,800.0	12.01	357.74	1,772.7	273.5	-10.8	273.1	0.00	0.00	0.00
1,900.0	12.01	357.74	1,870.5	294.3	-11.6	293.8	0.00	0.00	0.00
2,000.0	12.01	357.74	1,968.3	315.0	-12.4	314.6	0.00	0.00	0.00
2,100.0	12.01	357.74	2,066.1	335.8	-13.2	335.3	0.00	0.00	0.00
2,200.0	12.01	357.74	2,163.9	356.6	-14.1	356.1	0.00	0.00	0.00
2,300.0	12.01	357.74	2,261.8	377.4	-14.9	376.8	0.00	0.00	0.00
2,400.0	12.01	357.74	2,359.6	398.2	-15.7	397.6	0.00	0.00	0.00
<b>Wasatch</b>									
2,428.0	12.01	357.74	2,387.0	404.0	-15.9	403.4	0.00	0.00	0.00
2,500.0	12.01	357.74	2,457.4	419.0	-16.5	418.3	0.00	0.00	0.00
2,600.0	12.01	357.74	2,555.2	439.8	-17.3	439.1	0.00	0.00	0.00
2,700.0	12.01	357.74	2,653.0	460.5	-18.2	459.9	0.00	0.00	0.00
2,800.0	12.01	357.74	2,750.8	481.3	-19.0	480.6	0.00	0.00	0.00
2,900.0	12.01	357.74	2,848.6	502.1	-19.8	501.4	0.00	0.00	0.00
3,000.0	12.01	357.74	2,946.4	522.9	-20.6	522.1	0.00	0.00	0.00
3,100.0	12.01	357.74	3,044.3	543.7	-21.4	542.9	0.00	0.00	0.00
3,200.0	12.01	357.74	3,142.1	564.5	-22.3	563.6	0.00	0.00	0.00
3,300.0	12.01	357.74	3,239.9	585.3	-23.1	584.4	0.00	0.00	0.00
3,400.0	12.01	357.74	3,337.7	606.0	-23.9	605.1	0.00	0.00	0.00
3,500.0	12.01	357.74	3,435.5	626.8	-24.7	625.9	0.00	0.00	0.00
3,600.0	12.01	357.74	3,533.3	647.6	-25.5	646.7	0.00	0.00	0.00
3,700.0	12.01	357.74	3,631.1	668.4	-26.4	667.4	0.00	0.00	0.00
3,800.0	12.01	357.74	3,728.9	689.2	-27.2	688.2	0.00	0.00	0.00
3,900.0	12.01	357.74	3,826.8	710.0	-28.0	708.9	0.00	0.00	0.00
4,000.0	12.01	357.74	3,924.6	730.8	-28.8	729.7	0.00	0.00	0.00
4,100.0	12.01	357.74	4,022.4	751.5	-29.6	750.4	0.00	0.00	0.00
4,200.0	12.01	357.74	4,120.2	772.3	-30.5	771.2	0.00	0.00	0.00
4,300.0	12.01	357.74	4,218.0	793.1	-31.3	791.9	0.00	0.00	0.00
4,400.0	12.01	357.74	4,315.8	813.9	-32.1	812.7	0.00	0.00	0.00
4,500.0	12.01	357.74	4,413.6	834.7	-32.9	833.4	0.00	0.00	0.00
4,600.0	12.01	357.74	4,511.4	855.5	-33.7	854.2	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M33 FED 13D-33 496 - Slot BJU M33 FED 13D-33 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Site:</b>	NPM M33 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M33 FED 13D-33 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
4,700.0	12.01	357.74	4,609.3	876.3	-34.6	875.0	0.00	0.00	0.00
4,800.0	12.01	357.74	4,707.1	897.0	-35.4	895.7	0.00	0.00	0.00
4,900.0	12.01	357.74	4,804.9	917.8	-36.2	916.5	0.00	0.00	0.00
5,000.0	12.01	357.74	4,902.7	938.6	-37.0	937.2	0.00	0.00	0.00
5,100.0	12.01	357.74	5,000.5	959.4	-37.8	958.0	0.00	0.00	0.00
5,200.0	12.01	357.74	5,098.3	980.2	-38.7	978.7	0.00	0.00	0.00
5,300.0	12.01	357.74	5,196.1	1,001.0	-39.5	999.5	0.00	0.00	0.00
5,400.0	12.01	357.74	5,293.9	1,021.8	-40.3	1,020.2	0.00	0.00	0.00
<b>Wasatch G</b>									
5,495.1	12.01	357.74	5,387.0	1,041.5	-41.1	1,040.0	0.00	0.00	0.00
5,500.0	12.01	357.74	5,391.8	1,042.5	-41.1	1,041.0	0.00	0.00	0.00
5,600.0	12.01	357.74	5,489.6	1,063.3	-41.9	1,061.8	0.00	0.00	0.00
5,700.0	12.01	357.74	5,587.4	1,084.1	-42.8	1,082.5	0.00	0.00	0.00
<b>Fort Union</b>									
5,752.8	12.01	357.74	5,639.0	1,095.1	-43.2	1,093.5	0.00	0.00	0.00
5,800.0	12.01	357.74	5,685.2	1,104.9	-43.6	1,103.3	0.00	0.00	0.00
5,900.0	12.01	357.74	5,783.0	1,125.7	-44.4	1,124.0	0.00	0.00	0.00
6,000.0	12.01	357.74	5,880.8	1,146.5	-45.2	1,144.8	0.00	0.00	0.00
6,100.0	12.01	357.74	5,978.6	1,167.3	-46.0	1,165.5	0.00	0.00	0.00
6,200.0	12.01	357.74	6,076.4	1,188.0	-46.9	1,186.3	0.00	0.00	0.00
6,300.0	12.01	357.74	6,174.3	1,208.8	-47.7	1,207.0	0.00	0.00	0.00
6,400.0	12.01	357.74	6,272.1	1,229.6	-48.5	1,227.8	0.00	0.00	0.00
6,500.0	12.01	357.74	6,369.9	1,250.4	-49.3	1,248.5	0.00	0.00	0.00
6,600.0	12.01	357.74	6,467.7	1,271.2	-50.1	1,269.3	0.00	0.00	0.00
6,700.0	12.01	357.74	6,565.5	1,292.0	-51.0	1,290.1	0.00	0.00	0.00
6,800.0	12.01	357.74	6,663.3	1,312.8	-51.8	1,310.8	0.00	0.00	0.00
6,900.0	12.01	357.74	6,761.1	1,333.5	-52.6	1,331.6	0.00	0.00	0.00
7,000.0	12.01	357.74	6,858.9	1,354.3	-53.4	1,352.3	0.00	0.00	0.00
7,100.0	12.01	357.74	6,956.8	1,375.1	-54.2	1,373.1	0.00	0.00	0.00
7,200.0	12.01	357.74	7,054.6	1,395.9	-55.1	1,393.8	0.00	0.00	0.00
<b>Drop 3° / 100'</b>									
7,224.7	12.01	357.74	7,078.7	1,401.0	-55.3	1,399.0	0.00	0.00	0.00
7,300.0	9.75	357.74	7,152.7	1,415.2	-55.8	1,413.1	3.00	-3.00	0.00
7,400.0	6.75	357.74	7,251.6	1,429.6	-56.4	1,427.4	3.00	-3.00	0.00
7,500.0	3.75	357.74	7,351.2	1,438.7	-56.7	1,436.6	3.00	-3.00	0.00
7,600.0	0.75	357.74	7,451.1	1,442.6	-56.9	1,440.5	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek</b>									
7,624.9	0.00	0.00	7,476.0	1,442.8	-56.9	1,440.6	3.00	-3.00	0.00
7,700.0	1.13	250.14	7,551.1	1,442.5	-57.6	1,440.5	1.50	1.50	0.00
<b>EOB @ 1.57° Inc. / 250.17° Azm</b>									
7,729.7	1.57	250.14	7,580.8	1,442.3	-58.3	1,440.3	1.50	1.50	0.00
7,800.0	1.57	250.14	7,651.1	1,441.6	-60.1	1,439.8	0.00	0.00	0.00
<b>Williams Fork - TOG</b>									
7,888.0	1.57	250.14	7,739.0	1,440.8	-62.3	1,439.3	0.00	0.00	0.00
7,900.0	1.57	250.14	7,751.0	1,440.7	-62.7	1,439.2	0.00	0.00	0.00
8,000.0	1.57	250.14	7,851.0	1,439.8	-65.2	1,438.5	0.00	0.00	0.00
8,100.0	1.57	250.14	7,950.9	1,438.8	-67.8	1,437.9	0.00	0.00	0.00
8,200.0	1.57	250.14	8,050.9	1,437.9	-70.4	1,437.2	0.00	0.00	0.00
8,300.0	1.57	250.14	8,150.9	1,437.0	-73.0	1,436.6	0.00	0.00	0.00
8,400.0	1.57	250.14	8,250.8	1,436.0	-75.6	1,435.9	0.00	0.00	0.00
8,500.0	1.57	250.14	8,350.8	1,435.1	-78.1	1,435.3	0.00	0.00	0.00
8,600.0	1.57	250.14	8,450.8	1,434.2	-80.7	1,434.6	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M33 FED 13D-33 496 - Slot BJU M33 FED 13D-33 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Site:</b>	NPM M33 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M33 FED 13D-33 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
8,700.0	1.57	250.14	8,550.7	1,433.2	-83.3	1,434.0	0.00	0.00	0.00	
8,800.0	1.57	250.14	8,650.7	1,432.3	-85.9	1,433.3	0.00	0.00	0.00	
8,900.0	1.57	250.14	8,750.6	1,431.4	-88.5	1,432.7	0.00	0.00	0.00	
9,000.0	1.57	250.14	8,850.6	1,430.5	-91.0	1,432.0	0.00	0.00	0.00	
9,100.0	1.57	250.14	8,950.6	1,429.5	-93.6	1,431.4	0.00	0.00	0.00	
9,200.0	1.57	250.14	9,050.5	1,428.6	-96.2	1,430.7	0.00	0.00	0.00	
9,300.0	1.57	250.14	9,150.5	1,427.7	-98.8	1,430.1	0.00	0.00	0.00	
9,400.0	1.57	250.14	9,250.5	1,426.7	-101.4	1,429.4	0.00	0.00	0.00	
9,500.0	1.57	250.14	9,350.4	1,425.8	-103.9	1,428.8	0.00	0.00	0.00	
9,600.0	1.57	250.14	9,450.4	1,424.9	-106.5	1,428.1	0.00	0.00	0.00	
9,700.0	1.57	250.14	9,550.3	1,423.9	-109.1	1,427.4	0.00	0.00	0.00	
9,800.0	1.57	250.14	9,650.3	1,423.0	-111.7	1,426.8	0.00	0.00	0.00	
9,900.0	1.57	250.14	9,750.3	1,422.1	-114.3	1,426.1	0.00	0.00	0.00	
10,000.0	1.57	250.14	9,850.2	1,421.1	-116.9	1,425.5	0.00	0.00	0.00	
10,100.0	1.57	250.14	9,950.2	1,420.2	-119.4	1,424.8	0.00	0.00	0.00	
10,200.0	1.57	250.14	10,050.2	1,419.3	-122.0	1,424.2	0.00	0.00	0.00	
10,300.0	1.57	250.14	10,150.1	1,418.3	-124.6	1,423.5	0.00	0.00	0.00	
10,400.0	1.57	250.14	10,250.1	1,417.4	-127.2	1,422.9	0.00	0.00	0.00	
<b>Cameo</b>										
10,487.0	1.57	250.14	10,337.0	1,416.6	-129.4	1,422.3	0.00	0.00	0.00	
10,500.0	1.57	250.14	10,350.0	1,416.5	-129.8	1,422.2	0.00	0.00	0.00	
10,600.0	1.57	250.14	10,450.0	1,415.5	-132.3	1,421.6	0.00	0.00	0.00	
10,700.0	1.57	250.14	10,550.0	1,414.6	-134.9	1,420.9	0.00	0.00	0.00	
10,800.0	1.57	250.14	10,649.9	1,413.7	-137.5	1,420.3	0.00	0.00	0.00	
10,900.0	1.57	250.14	10,749.9	1,412.7	-140.1	1,419.6	0.00	0.00	0.00	
11,000.0	1.57	250.14	10,849.9	1,411.8	-142.7	1,419.0	0.00	0.00	0.00	
11,100.0	1.57	250.14	10,949.8	1,410.9	-145.2	1,418.3	0.00	0.00	0.00	
<b>Rollins</b>										
11,118.2	1.57	250.14	10,968.0	1,410.7	-145.7	1,418.2	0.00	0.00	0.00	
11,200.0	1.57	250.14	11,049.8	1,409.9	-147.8	1,417.7	0.00	0.00	0.00	
11,300.0	1.57	250.14	11,149.7	1,409.0	-150.4	1,417.0	0.00	0.00	0.00	
<b>TD @ 11318.3' MD / 11168.0' TVD</b>										
11,318.3	1.57	250.14	11,168.0	1,408.8	-150.9	1,416.9	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 - Point	0.00	0.00	7,476.0	1,442.8	-56.9	14,413,867.88	2,434,749.95	39.657625	-108.177944	
PBHL - BJU M33 FED - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	11,168.0	1,408.8	-150.9	14,413,831.00	2,434,657.10	39.657532	-108.178278	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M33 FED 13D-33 496 - Slot BJU M33 FED 13D-33 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8431.0usft (H&P #329)
<b>Site:</b>	NPM M33 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M33 FED 13D-33 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Formations**

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,428.0	2,387.0	Wasatch			
5,495.1	5,387.0	Wasatch G			
5,752.8	5,639.0	Fort Union			
7,624.9	7,476.0	Ohio Creek			
7,888.0	7,739.0	Williams Fork			
7,888.0	7,739.0	TOG			
10,487.0	10,337.0	Cameo			
11,118.2	10,968.0	Rollins			

**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
285.0	285.0	0.0	0.0	Build 3° / 100'
685.2	682.3	41.7	-1.6	EOB @ 12.01° Inc. / 357.77° Azm
7,224.7	7,078.7	1,401.0	-55.3	Drop 3° / 100'
7,624.9	7,476.0	1,442.8	-56.9	EOD @ Vertical / Build 1.5° / 100'
7,729.7	7,580.8	1,442.3	-58.3	EOB @ 1.57° Inc. / 250.17° Azm
11,318.3	11,168.0	1,408.8	-150.9	TD @ 11318.3' MD / 11168.0' TVD