

Project: Garfield County, CO
 Site: NPM G35 496 Pad
 Well: BJU G35 FED 23B-35 496
 Wellbore: Wellbore #1
 Design: Design #1
 Latitude: 39.660477
 Longitude: -108.134097
 Ground Level: 8164.0
 RKB @ 8194.0usft (H&P#329)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2554.0	2565.6	Wasatch
5554.0	5581.7	Wasatch G
5808.0	5837.1	Fort Union
7894.0	7933.6	Ohio Creek
7894.0	7933.6	TOG
8137.0	8176.7	Williams Fork
10897.0	10937.7	Cameo
11471.0	11511.9	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well BJU G35 FED 23B-35 496 - Slot BJU G35 FED 23B-35 496, True North
 Vertical (TVD) Reference: RKB @ 8194.0usft (H&P#329)
 Section (VS) Reference: Slot - BJU G35 FED 23B-35 496(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8194.0usft (H&P#329)
 Calculation Method: Minimum Curvature

WELL DETAILS: BJU G35 FED 23B-35 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14415297.90	8164.0 2447060.50	39.660477	-108.134097

PROJECT DETAILS: Garfield County, CO

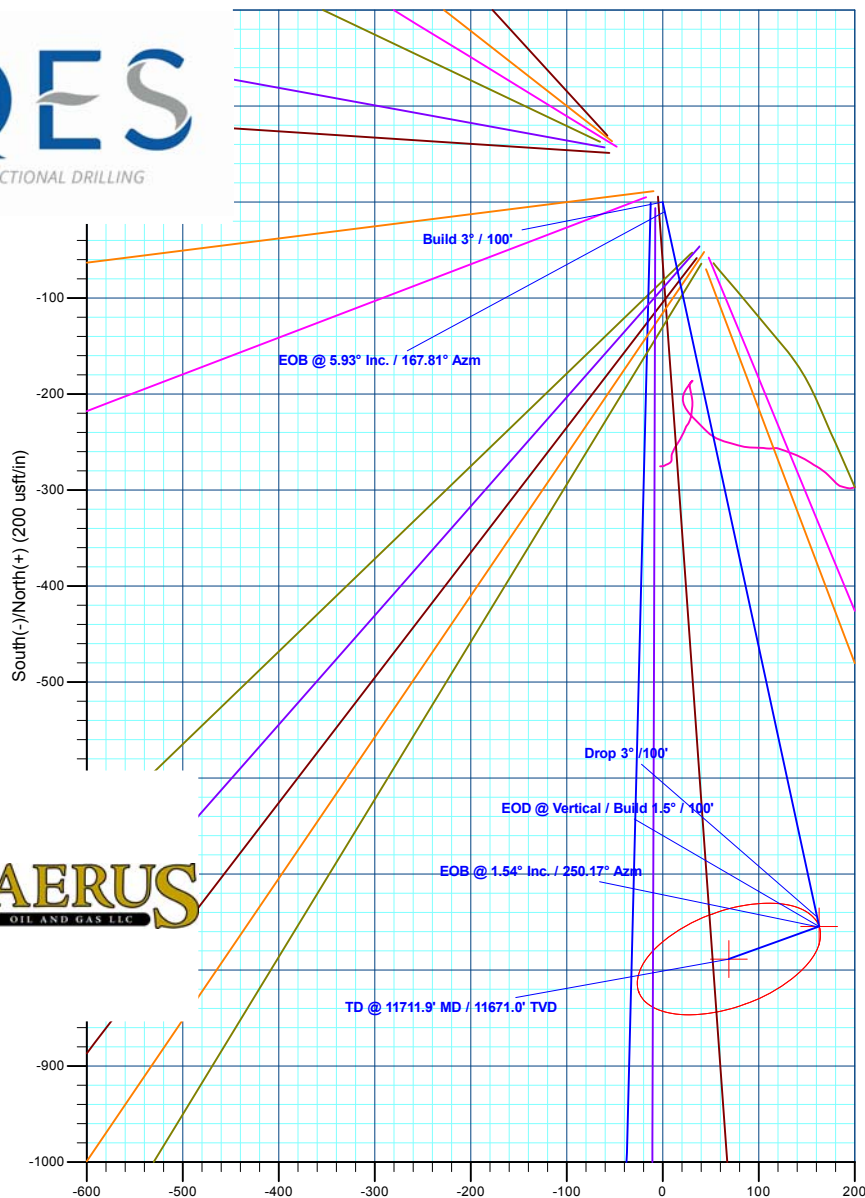
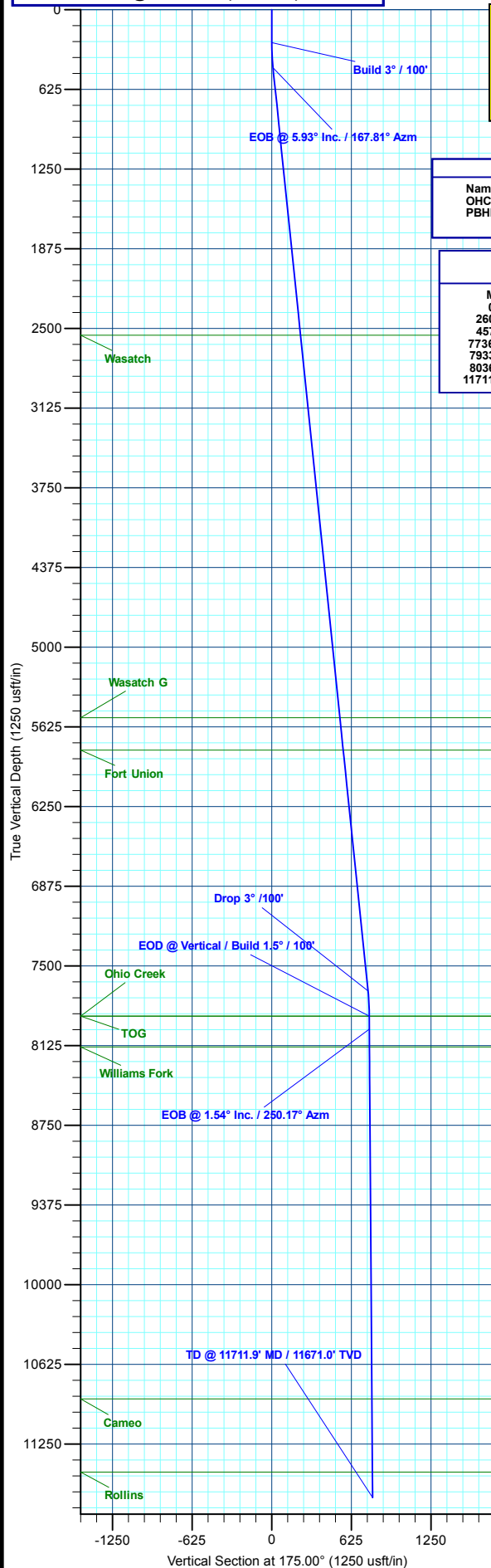
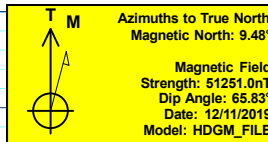
Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 System Datum: Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - BJ G35 23B-35 496	7894.0	-754.5	162.9	14414548.98	2447247.45	39.658406	-108.133518
PBHL - BJ G35 23B-35 496	11671.0	-788.4	69.0	14414512.10	2447154.60	39.658313	-108.133852

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	
260.0	0.00	0.00	260.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
457.5	5.93	167.81	457.2	-10.0	2.2	3.00	167.81	10.1	EOB @ 5.93° Inc. / 167.81° Azm
7736.1	5.93	167.81	7696.8	-744.5	160.8	0.00	0.00	755.7	Drop 3° / 100'
7933.6	0.00	0.00	7894.0	-754.5	162.9	3.00	180.00	765.8	EOD @ Vertical / Build 1.5° / 100'
8036.0	1.54	250.17	7996.4	-755.0	161.6	1.50	250.17	766.2	EOB @ 1.54° Inc. / 250.17° Azm
11711.9	1.54	250.17	11671.0	-788.4	69.0	0.00	0.00	791.4	TD @ 11711.9° MD / 11671.0° TVD



Plan: Design #1 (BJU G35 FED 23B-35 496/Wellbore #1)

Created By: Will Jircik

Date: 16:49, December 18 2019



Caerus Oil & Gas

Garfield County, CO

NPM G35 496 Pad

BJU G35 FED 23B-35 496 - Slot BJU G35 FED 23B-35 496

Wellbore #1

Plan: Design #1

QES Well Planning Report

18 December, 2019



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU G35 FED 23B-35 496 - Slot BJU G35 FED 23B-35 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8194.0usft (H&P#329)
Project:	Garfield County, CO	MD Reference:	RKB @ 8194.0usft (H&P#329)
Site:	NPM G35 496 Pad	North Reference:	True
Well:	BJU G35 FED 23B-35 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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 G35 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 G35 FED 23B-35 496 - Slot BJU G35 FED 23B-35 496		
Well Position	+N/-S	-57.7 usft	Northing: 14,415,297.90 usft
	+E/-W	47.9 usft	Easting: 2,447,060.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39.660477
			Longitude: -108.134097
			Ground Level: 8,164.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/11/2019	9.48	65.83	51,251.00000000

Design	Design #1			
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	175.00

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	
260.0	0.00	0.00	260.0	0.0	0.0	0.00	0.00	0.00	0.00	
457.5	5.93	167.81	457.2	-10.0	2.2	3.00	3.00	0.00	167.81	
7,736.1	5.93	167.81	7,696.8	-744.5	160.8	0.00	0.00	0.00	0.00	
7,933.6	0.00	0.00	7,894.0	-754.5	162.9	3.00	-3.00	0.00	180.00	OHCR - BJ G35 23
8,036.0	1.54	250.17	7,996.4	-755.0	161.6	1.50	1.50	-107.26	250.17	
11,711.9	1.54	250.17	11,671.0	-788.4	69.0	0.00	0.00	0.00	0.00	PBHL - BJ G35 23I

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU G35 FED 23B-35 496 - Slot BJU G35 FED 23B-35 496
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Project:	Garfield County, CO	MD Reference:	RKB @ 8194.0usft (H&P#329)
Site:	NPM G35 496 Pad	North Reference:	True
Well:	BJU G35 FED 23B-35 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
Build 3° / 100'									
260.0	0.00	0.00	260.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	1.20	167.81	300.0	-0.4	0.1	0.4	3.00	3.00	0.00
400.0	4.20	167.81	399.9	-5.0	1.1	5.1	3.00	3.00	0.00
EOB @ 5.93° Inc. / 167.81° Azm									
457.5	5.93	167.81	457.2	-10.0	2.2	10.1	3.00	3.00	0.00
500.0	5.93	167.81	499.4	-14.3	3.1	14.5	0.00	0.00	0.00
600.0	5.93	167.81	598.9	-24.4	5.3	24.7	0.00	0.00	0.00
700.0	5.93	167.81	698.4	-34.4	7.4	35.0	0.00	0.00	0.00
800.0	5.93	167.81	797.8	-44.5	9.6	45.2	0.00	0.00	0.00
900.0	5.93	167.81	897.3	-54.6	11.8	55.5	0.00	0.00	0.00
1,000.0	5.93	167.81	996.7	-64.7	14.0	65.7	0.00	0.00	0.00
1,100.0	5.93	167.81	1,096.2	-74.8	16.2	75.9	0.00	0.00	0.00
1,200.0	5.93	167.81	1,195.7	-84.9	18.3	86.2	0.00	0.00	0.00
1,300.0	5.93	167.81	1,295.1	-95.0	20.5	96.4	0.00	0.00	0.00
1,400.0	5.93	167.81	1,394.6	-105.1	22.7	106.7	0.00	0.00	0.00
1,500.0	5.93	167.81	1,494.1	-115.2	24.9	116.9	0.00	0.00	0.00
1,600.0	5.93	167.81	1,593.5	-125.3	27.1	127.2	0.00	0.00	0.00
1,700.0	5.93	167.81	1,693.0	-135.4	29.2	137.4	0.00	0.00	0.00
1,800.0	5.93	167.81	1,792.5	-145.5	31.4	147.6	0.00	0.00	0.00
1,900.0	5.93	167.81	1,891.9	-155.6	33.6	157.9	0.00	0.00	0.00
2,000.0	5.93	167.81	1,991.4	-165.6	35.8	168.1	0.00	0.00	0.00
2,100.0	5.93	167.81	2,090.9	-175.7	38.0	178.4	0.00	0.00	0.00
2,200.0	5.93	167.81	2,190.3	-185.8	40.1	188.6	0.00	0.00	0.00
2,300.0	5.93	167.81	2,289.8	-195.9	42.3	198.9	0.00	0.00	0.00
2,400.0	5.93	167.81	2,389.3	-206.0	44.5	209.1	0.00	0.00	0.00
2,500.0	5.93	167.81	2,488.7	-216.1	46.7	219.3	0.00	0.00	0.00
Wasatch									
2,565.6	5.93	167.81	2,554.0	-222.7	48.1	226.1	0.00	0.00	0.00
2,600.0	5.93	167.81	2,588.2	-226.2	48.8	229.6	0.00	0.00	0.00
2,700.0	5.93	167.81	2,687.7	-236.3	51.0	239.8	0.00	0.00	0.00
2,800.0	5.93	167.81	2,787.1	-246.4	53.2	250.1	0.00	0.00	0.00
2,900.0	5.93	167.81	2,886.6	-256.5	55.4	260.3	0.00	0.00	0.00
3,000.0	5.93	167.81	2,986.1	-266.6	57.6	270.6	0.00	0.00	0.00
3,100.0	5.93	167.81	3,085.5	-276.7	59.7	280.8	0.00	0.00	0.00
3,200.0	5.93	167.81	3,185.0	-286.7	61.9	291.1	0.00	0.00	0.00
3,300.0	5.93	167.81	3,284.5	-296.8	64.1	301.3	0.00	0.00	0.00
3,400.0	5.93	167.81	3,383.9	-306.9	66.3	311.5	0.00	0.00	0.00
3,500.0	5.93	167.81	3,483.4	-317.0	68.5	321.8	0.00	0.00	0.00
3,600.0	5.93	167.81	3,582.9	-327.1	70.6	332.0	0.00	0.00	0.00
3,700.0	5.93	167.81	3,682.3	-337.2	72.8	342.3	0.00	0.00	0.00
3,800.0	5.93	167.81	3,781.8	-347.3	75.0	352.5	0.00	0.00	0.00
3,900.0	5.93	167.81	3,881.3	-357.4	77.2	362.8	0.00	0.00	0.00
4,000.0	5.93	167.81	3,980.7	-367.5	79.4	373.0	0.00	0.00	0.00
4,100.0	5.93	167.81	4,080.2	-377.6	81.5	383.2	0.00	0.00	0.00
4,200.0	5.93	167.81	4,179.6	-387.7	83.7	393.5	0.00	0.00	0.00
4,300.0	5.93	167.81	4,279.1	-397.8	85.9	403.7	0.00	0.00	0.00
4,400.0	5.93	167.81	4,378.6	-407.9	88.1	414.0	0.00	0.00	0.00
4,500.0	5.93	167.81	4,478.0	-417.9	90.3	424.2	0.00	0.00	0.00
4,600.0	5.93	167.81	4,577.5	-428.0	92.4	434.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU G35 FED 23B-35 496 - Slot BJU G35 FED 23B-35 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8194.0usft (H&P#329)
Project:	Garfield County, CO	MD Reference:	RKB @ 8194.0usft (H&P#329)
Site:	NPM G35 496 Pad	North Reference:	True
Well:	BJU G35 FED 23B-35 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	5.93	167.81	4,677.0	-438.1	94.6	444.7	0.00	0.00	0.00
4,800.0	5.93	167.81	4,776.4	-448.2	96.8	455.0	0.00	0.00	0.00
4,900.0	5.93	167.81	4,875.9	-458.3	99.0	465.2	0.00	0.00	0.00
5,000.0	5.93	167.81	4,975.4	-468.4	101.2	475.4	0.00	0.00	0.00
5,100.0	5.93	167.81	5,074.8	-478.5	103.3	485.7	0.00	0.00	0.00
5,200.0	5.93	167.81	5,174.3	-488.6	105.5	495.9	0.00	0.00	0.00
5,300.0	5.93	167.81	5,273.8	-498.7	107.7	506.2	0.00	0.00	0.00
5,400.0	5.93	167.81	5,373.2	-508.8	109.9	516.4	0.00	0.00	0.00
5,500.0	5.93	167.81	5,472.7	-518.9	112.0	526.7	0.00	0.00	0.00
Wasatch G									
5,581.7	5.93	167.81	5,554.0	-527.1	113.8	535.0	0.00	0.00	0.00
5,600.0	5.93	167.81	5,572.2	-529.0	114.2	536.9	0.00	0.00	0.00
5,700.0	5.93	167.81	5,671.6	-539.1	116.4	547.1	0.00	0.00	0.00
5,800.0	5.93	167.81	5,771.1	-549.1	118.6	557.4	0.00	0.00	0.00
Fort Union									
5,837.1	5.93	167.81	5,808.0	-552.9	119.4	561.2	0.00	0.00	0.00
5,900.0	5.93	167.81	5,870.6	-559.2	120.8	567.6	0.00	0.00	0.00
6,000.0	5.93	167.81	5,970.0	-569.3	122.9	577.9	0.00	0.00	0.00
6,100.0	5.93	167.81	6,069.5	-579.4	125.1	588.1	0.00	0.00	0.00
6,200.0	5.93	167.81	6,169.0	-589.5	127.3	598.4	0.00	0.00	0.00
6,300.0	5.93	167.81	6,268.4	-599.6	129.5	608.6	0.00	0.00	0.00
6,400.0	5.93	167.81	6,367.9	-609.7	131.7	618.8	0.00	0.00	0.00
6,500.0	5.93	167.81	6,467.4	-619.8	133.8	629.1	0.00	0.00	0.00
6,600.0	5.93	167.81	6,566.8	-629.9	136.0	639.3	0.00	0.00	0.00
6,700.0	5.93	167.81	6,666.3	-640.0	138.2	649.6	0.00	0.00	0.00
6,800.0	5.93	167.81	6,765.8	-650.1	140.4	659.8	0.00	0.00	0.00
6,900.0	5.93	167.81	6,865.2	-660.2	142.6	670.1	0.00	0.00	0.00
7,000.0	5.93	167.81	6,964.7	-670.2	144.7	680.3	0.00	0.00	0.00
7,100.0	5.93	167.81	7,064.1	-680.3	146.9	690.6	0.00	0.00	0.00
7,200.0	5.93	167.81	7,163.6	-690.4	149.1	700.8	0.00	0.00	0.00
7,300.0	5.93	167.81	7,263.1	-700.5	151.3	711.0	0.00	0.00	0.00
7,400.0	5.93	167.81	7,362.5	-710.6	153.5	721.3	0.00	0.00	0.00
7,500.0	5.93	167.81	7,462.0	-720.7	155.6	731.5	0.00	0.00	0.00
7,600.0	5.93	167.81	7,561.5	-730.8	157.8	741.8	0.00	0.00	0.00
7,700.0	5.93	167.81	7,660.9	-740.9	160.0	752.0	0.00	0.00	0.00
Drop 3° /100'									
7,736.1	5.93	167.81	7,696.8	-744.5	160.8	755.7	0.00	0.00	0.00
7,800.0	4.01	167.81	7,760.5	-749.9	162.0	761.2	3.00	-3.00	0.00
7,900.0	1.01	167.81	7,860.4	-754.2	162.9	765.5	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
7,933.6	0.00	0.00	7,894.0	-754.5	162.9	765.8	3.00	-3.00	0.00
8,000.0	1.00	250.17	7,960.4	-754.7	162.4	766.0	1.50	1.50	0.00
EOB @ 1.54° Inc. / 250.17° Azm									
8,036.0	1.54	250.17	7,996.4	-755.0	161.6	766.2	1.50	1.50	0.00
8,100.0	1.54	250.17	8,060.4	-755.6	160.0	766.6	0.00	0.00	0.00
Williams Fork									
8,176.7	1.54	250.17	8,137.0	-756.3	158.1	767.2	0.00	0.00	0.00
8,200.0	1.54	250.17	8,160.3	-756.5	157.5	767.3	0.00	0.00	0.00
8,300.0	1.54	250.17	8,260.3	-757.4	155.0	768.0	0.00	0.00	0.00
8,400.0	1.54	250.17	8,360.3	-758.3	152.5	768.7	0.00	0.00	0.00
8,500.0	1.54	250.17	8,460.2	-759.2	149.9	769.4	0.00	0.00	0.00
8,600.0	1.54	250.17	8,560.2	-760.1	147.4	770.1	0.00	0.00	0.00

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Project:	Garfield County, CO	MD Reference:	RKB @ 8194.0usft (H&P#329)
Site:	NPM G35 496 Pad	North Reference:	True
Well:	BJU G35 FED 23B-35 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	1.54	250.17	8,660.1	-761.0	144.9	770.7	0.00	0.00	0.00
8,800.0	1.54	250.17	8,760.1	-761.9	142.4	771.4	0.00	0.00	0.00
8,900.0	1.54	250.17	8,860.1	-762.8	139.9	772.1	0.00	0.00	0.00
9,000.0	1.54	250.17	8,960.0	-763.7	137.3	772.8	0.00	0.00	0.00
9,100.0	1.54	250.17	9,060.0	-764.7	134.8	773.5	0.00	0.00	0.00
9,200.0	1.54	250.17	9,160.0	-765.6	132.3	774.2	0.00	0.00	0.00
9,300.0	1.54	250.17	9,259.9	-766.5	129.8	774.9	0.00	0.00	0.00
9,400.0	1.54	250.17	9,359.9	-767.4	127.3	775.5	0.00	0.00	0.00
9,500.0	1.54	250.17	9,459.9	-768.3	124.7	776.2	0.00	0.00	0.00
9,600.0	1.54	250.17	9,559.8	-769.2	122.2	776.9	0.00	0.00	0.00
9,700.0	1.54	250.17	9,659.8	-770.1	119.7	777.6	0.00	0.00	0.00
9,800.0	1.54	250.17	9,759.8	-771.0	117.2	778.3	0.00	0.00	0.00
9,900.0	1.54	250.17	9,859.7	-771.9	114.6	779.0	0.00	0.00	0.00
10,000.0	1.54	250.17	9,959.7	-772.8	112.1	779.7	0.00	0.00	0.00
10,100.0	1.54	250.17	10,059.6	-773.7	109.6	780.4	0.00	0.00	0.00
10,200.0	1.54	250.17	10,159.6	-774.7	107.1	781.0	0.00	0.00	0.00
10,300.0	1.54	250.17	10,259.6	-775.6	104.6	781.7	0.00	0.00	0.00
10,400.0	1.54	250.17	10,359.5	-776.5	102.0	782.4	0.00	0.00	0.00
10,500.0	1.54	250.17	10,459.5	-777.4	99.5	783.1	0.00	0.00	0.00
10,600.0	1.54	250.17	10,559.5	-778.3	97.0	783.8	0.00	0.00	0.00
10,700.0	1.54	250.17	10,659.4	-779.2	94.5	784.5	0.00	0.00	0.00
10,800.0	1.54	250.17	10,759.4	-780.1	92.0	785.2	0.00	0.00	0.00
10,900.0	1.54	250.17	10,859.4	-781.0	89.4	785.8	0.00	0.00	0.00
Cameo									
10,937.7	1.54	250.17	10,897.0	-781.4	88.5	786.1	0.00	0.00	0.00
11,000.0	1.54	250.17	10,959.3	-781.9	86.9	786.5	0.00	0.00	0.00
11,100.0	1.54	250.17	11,059.3	-782.8	84.4	787.2	0.00	0.00	0.00
11,200.0	1.54	250.17	11,159.2	-783.7	81.9	787.9	0.00	0.00	0.00
11,300.0	1.54	250.17	11,259.2	-784.7	79.3	788.6	0.00	0.00	0.00
11,400.0	1.54	250.17	11,359.2	-785.6	76.8	789.3	0.00	0.00	0.00
11,500.0	1.54	250.17	11,459.1	-786.5	74.3	790.0	0.00	0.00	0.00
Rollins									
11,511.9	1.54	250.17	11,471.0	-786.6	74.0	790.0	0.00	0.00	0.00
11,600.0	1.54	250.17	11,559.1	-787.4	71.8	790.6	0.00	0.00	0.00
11,700.0	1.54	250.17	11,659.1	-788.3	69.3	791.3	0.00	0.00	0.00
TD @ 11711.9' MD / 11671.0' TVD									
11,711.9	1.54	250.17	11,671.0	-788.4	69.0	791.4	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 - BJ G35 23B-	0.00	0.00	7,894.0	-754.5	162.9	14,414,548.98	2,447,247.45	39.658407	-108.133519
- plan hits target center									
- Point									
PBHL - BJ G35 23B-	0.00	0.00	11,671.0	-788.4	69.0	14,414,512.10	2,447,154.60	39.658314	-108.133852
- 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 G35 FED 23B-35 496 - Slot BJU G35 FED 23B-35 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8194.0usft (H&P#329)
Project:	Garfield County, CO	MD Reference:	RKB @ 8194.0usft (H&P#329)
Site:	NPM G35 496 Pad	North Reference:	True
Well:	BJU G35 FED 23B-35 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,565.6	2,554.0	Wasatch			
5,581.7	5,554.0	Wasatch G			
5,837.1	5,808.0	Fort Union			
7,933.6	7,894.0	Ohio Creek			
7,933.6	7,894.0	TOG			
8,176.7	8,137.0	Williams Fork			
10,937.7	10,897.0	Cameo			
11,511.9	11,471.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
260.0	260.0	0.0	0.0	Build 3° / 100'
457.5	457.2	-10.0	2.2	EOB @ 5.93° Inc. / 167.81° Azm
7,736.1	7,696.8	-744.5	160.8	Drop 3° / 100'
7,933.6	7,894.0	-754.5	162.9	EOD @ Vertical / Build 1.5° / 100'
8,036.0	7,996.4	-755.0	161.6	EOB @ 1.54° Inc. / 250.17° Azm
11,711.9	11,671.0	-788.4	69.0	TD @ 11711.9' MD / 11671.0' TVD