Project: Garfield County, CO
Site: NPM G35 496 Pad
Well: BJU G35 FED 15B-35 496
Wellbore: Wellbore #1
Design: Design #1
Latitude: 39.660301
Longitude: -108.133954
Ground Level: 8164.0
RKB @ 8194.0usft (H&P#329)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2440.0	2600.2	Wasatch
5440.0	5881.1	Wasatch G
5796.0	6270.4	Fort Union
7784.0	8395.0	Ohio Creek
7784.0	8395.0	TOG
8024.0	8635.1	Williams Fork
10723.0	11335.0	Cameo
11338.0	11950.3	Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well BJU G35 FED 15B-35 496 - Slot BJU G35 FED 15B-35 496, True North
Vertical (TVD) Reference: RKB @ 8194.0usft (H&P#329)
Section (VS) Reference: Slot - BJU G35 FED 15B-35 496(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8194.0usft (H&P#329)
Calculation Method: Minimum Curvature

WELL DETAILS: BJU G35 FED 15B-35 496

+N/-S	+E/-W	Northing	8164.0 Easting	Latitude	Longitude
0.0	0.0	14415235.10	2447102.80	39.660301	-108.133954

T M
Azimuths to True North
Magnetic North: 9.48°
Magnetic Field
Strength: 51251.0nT
Dip Angle: 65.83°
Date: 12/11/2019
Model: HDGM_FILE

PROJECT DETAILS: Garfield County, CO

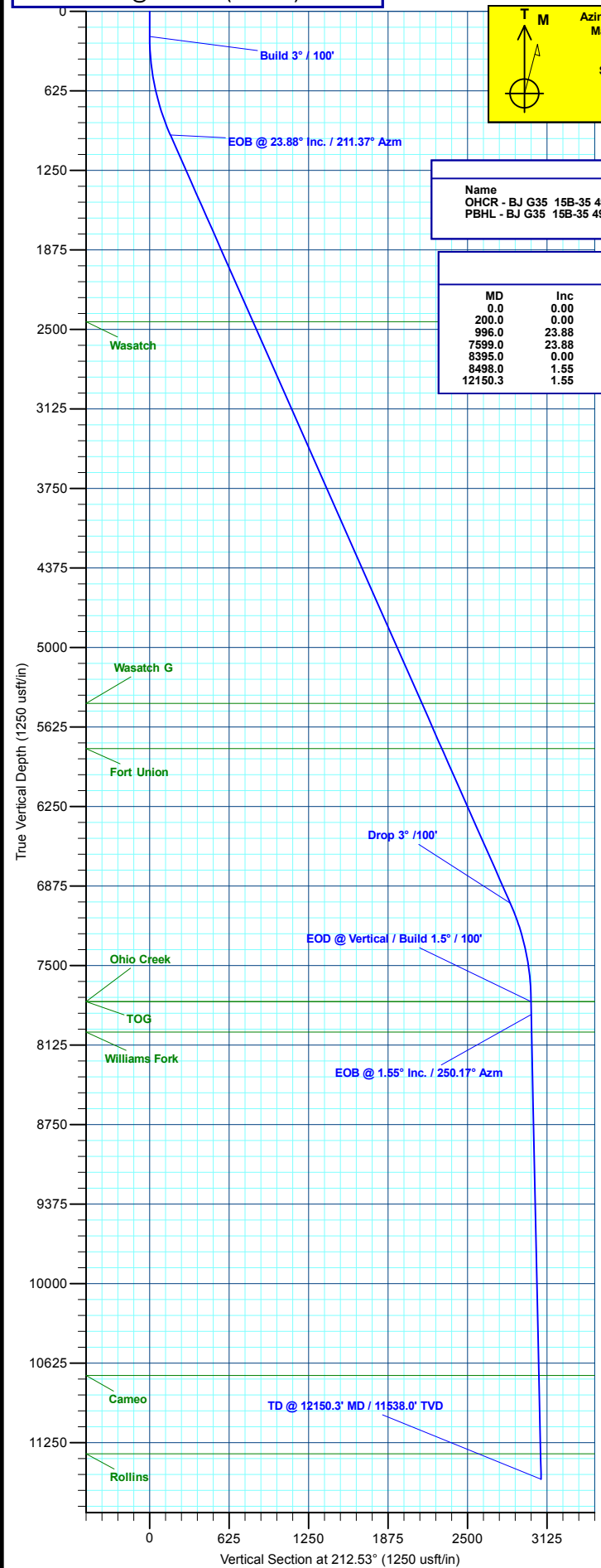
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
System Datum: Mean Sea Level

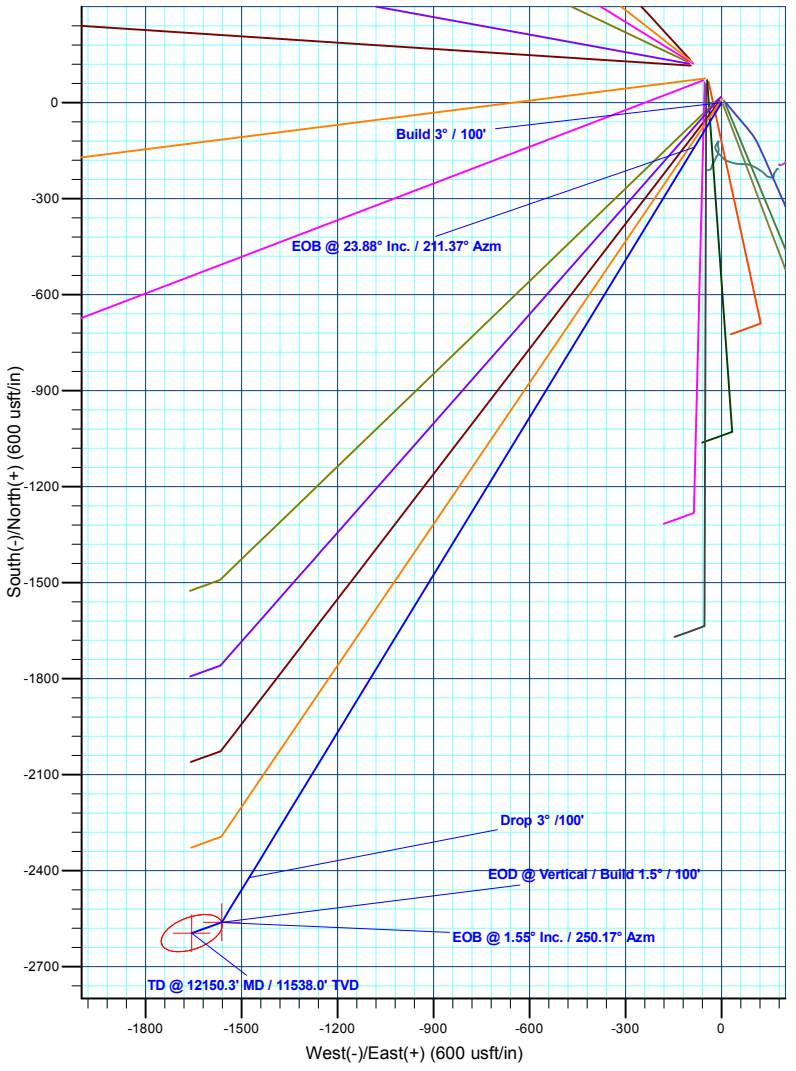
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - BJ G35 15B-35 496	7784.0	-2561.7	-1561.7	14412624.88	2445623.75	39.653271	-108.139498
PBHL - BJ G35 15B-35 496	11538.0	-2595.5	-1655.6	14412588.00	2445530.90	39.653178	-108.139832

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
996.0	23.88	211.37	973.2	-139.6	-85.1	3.00	211.37	163.5	EOB @ 23.88° Inc. / 211.37° Azm
7599.0	23.88	211.37	7010.8	-2422.0	-1476.6	0.00	0.00	2836.0	Drop 3° /100'
8395.0	0.00	0.00	7784.0	-2561.7	-1561.7	3.00	180.00	2999.5	EOD @ Vertical / Build 1.5° / 100'
8498.0	1.55	250.17	7887.0	-2562.1	-1563.0	1.50	250.17	3000.6	EOB @ 1.55° Inc. / 250.17° Azm
12150.3	1.55	250.17	11538.0	-2595.5	-1655.6	0.00	0.00	3078.6	TD @ 12150.3' MD / 11538.0' TVD





Plan: Design #1 (BJU G35 FED 15B-35 496/Wellbore #1)

Created By: Will Jircik Date: 16:19, December 18 2019

Caerus Oil & Gas

Garfield County, CO
NPM G35 496 Pad
BJU G35 FED 15B-35 496 - Slot BJU G35 FED 15B-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 15B-35 496 - Slot BJU G35 FED 15B-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 15B-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	**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 G35 FED 15B-35 496 - Slot BJU G35 FED 15B-35 496

Well Position	**+N/-S**	-121.8 usft	**Northing:**	14,415,235.10 usft	**Latitude:**	39.660301
	+E/-W	88.2 usft	**Easting:**	2,447,102.80 usft	**Longitude:**	-108.133954
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**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	212.53

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
996.0	23.88	211.37	973.2	-139.6	-85.1	3.00	3.00	0.00	211.37	
7,599.0	23.88	211.37	7,010.8	-2,422.0	-1,476.6	0.00	0.00	0.00	0.00	
8,395.0	0.00	0.00	7,784.0	-2,561.7	-1,561.7	3.00	-3.00	0.00	180.00	OHCR - BJ G35 15
8,498.0	1.55	250.17	7,887.0	-2,562.1	-1,563.0	1.50	1.50	-106.59	250.17	
12,150.3	1.55	250.17	11,538.0	-2,595.5	-1,655.6	0.00	0.00	0.00	0.00	PBHL - BJ G35 15I

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well BJU G35 FED 15B-35 496 - Slot BJU G35 FED 15B-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 15B-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
Build 3° / 100'									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	3.00	211.37	300.0	-2.2	-1.4	2.6	3.00	3.00	0.00
400.0	6.00	211.37	399.6	-8.9	-5.4	10.5	3.00	3.00	0.00
500.0	9.00	211.37	498.8	-20.1	-12.2	23.5	3.00	3.00	0.00
600.0	12.00	211.37	597.1	-35.6	-21.7	41.7	3.00	3.00	0.00
700.0	15.00	211.37	694.3	-55.6	-33.9	65.1	3.00	3.00	0.00
800.0	18.00	211.37	790.2	-79.8	-48.7	93.5	3.00	3.00	0.00
900.0	21.00	211.37	884.4	-108.3	-66.0	126.8	3.00	3.00	0.00
EOB @ 23.88° Inc. / 211.37° Azm									
996.0	23.88	211.37	973.2	-139.6	-85.1	163.5	3.00	3.00	0.00
1,000.0	23.88	211.37	976.8	-141.0	-85.9	165.1	0.00	0.00	0.00
1,100.0	23.88	211.37	1,068.3	-175.5	-107.0	205.6	0.00	0.00	0.00
1,200.0	23.88	211.37	1,159.7	-210.1	-128.1	246.0	0.00	0.00	0.00
1,300.0	23.88	211.37	1,251.1	-244.7	-149.2	286.5	0.00	0.00	0.00
1,400.0	23.88	211.37	1,342.6	-279.2	-170.2	327.0	0.00	0.00	0.00
1,500.0	23.88	211.37	1,434.0	-313.8	-191.3	367.5	0.00	0.00	0.00
1,600.0	23.88	211.37	1,525.4	-348.4	-212.4	407.9	0.00	0.00	0.00
1,700.0	23.88	211.37	1,616.9	-382.9	-233.5	448.4	0.00	0.00	0.00
1,800.0	23.88	211.37	1,708.3	-417.5	-254.5	488.9	0.00	0.00	0.00
1,900.0	23.88	211.37	1,799.8	-452.1	-275.6	529.4	0.00	0.00	0.00
2,000.0	23.88	211.37	1,891.2	-486.7	-296.7	569.8	0.00	0.00	0.00
2,100.0	23.88	211.37	1,982.6	-521.2	-317.8	610.3	0.00	0.00	0.00
2,200.0	23.88	211.37	2,074.1	-555.8	-338.8	650.8	0.00	0.00	0.00
2,300.0	23.88	211.37	2,165.5	-590.4	-359.9	691.3	0.00	0.00	0.00
2,400.0	23.88	211.37	2,257.0	-624.9	-381.0	731.7	0.00	0.00	0.00
2,500.0	23.88	211.37	2,348.4	-659.5	-402.0	772.2	0.00	0.00	0.00
2,600.0	23.88	211.37	2,439.8	-694.1	-423.1	812.7	0.00	0.00	0.00
Wasatch									
2,600.2	23.88	211.37	2,440.0	-694.1	-423.2	812.8	0.00	0.00	0.00
2,700.0	23.88	211.37	2,531.3	-728.6	-444.2	853.2	0.00	0.00	0.00
2,800.0	23.88	211.37	2,622.7	-763.2	-465.3	893.6	0.00	0.00	0.00
2,900.0	23.88	211.37	2,714.1	-797.8	-486.3	934.1	0.00	0.00	0.00
3,000.0	23.88	211.37	2,805.6	-832.3	-507.4	974.6	0.00	0.00	0.00
3,100.0	23.88	211.37	2,897.0	-866.9	-528.5	1,015.1	0.00	0.00	0.00
3,200.0	23.88	211.37	2,988.5	-901.5	-549.6	1,055.5	0.00	0.00	0.00
3,300.0	23.88	211.37	3,079.9	-936.0	-570.6	1,096.0	0.00	0.00	0.00
3,400.0	23.88	211.37	3,171.3	-970.6	-591.7	1,136.5	0.00	0.00	0.00
3,500.0	23.88	211.37	3,262.8	-1,005.2	-612.8	1,177.0	0.00	0.00	0.00
3,600.0	23.88	211.37	3,354.2	-1,039.7	-633.8	1,217.4	0.00	0.00	0.00
3,700.0	23.88	211.37	3,445.7	-1,074.3	-654.9	1,257.9	0.00	0.00	0.00
3,800.0	23.88	211.37	3,537.1	-1,108.9	-676.0	1,298.4	0.00	0.00	0.00
3,900.0	23.88	211.37	3,628.5	-1,143.4	-697.1	1,338.9	0.00	0.00	0.00
4,000.0	23.88	211.37	3,720.0	-1,178.0	-718.1	1,379.3	0.00	0.00	0.00
4,100.0	23.88	211.37	3,811.4	-1,212.6	-739.2	1,419.8	0.00	0.00	0.00
4,200.0	23.88	211.37	3,902.9	-1,247.1	-760.3	1,460.3	0.00	0.00	0.00
4,300.0	23.88	211.37	3,994.3	-1,281.7	-781.4	1,500.8	0.00	0.00	0.00
4,400.0	23.88	211.37	4,085.7	-1,316.3	-802.4	1,541.2	0.00	0.00	0.00
4,500.0	23.88	211.37	4,177.2	-1,350.8	-823.5	1,581.7	0.00	0.00	0.00
4,600.0	23.88	211.37	4,268.6	-1,385.4	-844.6	1,622.2	0.00	0.00	0.00
4,700.0	23.88	211.37	4,360.0	-1,420.0	-865.7	1,662.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well BJU G35 FED 15B-35 496 - Slot BJU G35 FED 15B-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 15B-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)
4,800.0	23.88	211.37	4,451.5	-1,454.5	-886.7	1,703.2	0.00	0.00	0.00
4,900.0	23.88	211.37	4,542.9	-1,489.1	-907.8	1,743.6	0.00	0.00	0.00
5,000.0	23.88	211.37	4,634.4	-1,523.7	-928.9	1,784.1	0.00	0.00	0.00
5,100.0	23.88	211.37	4,725.8	-1,558.2	-949.9	1,824.6	0.00	0.00	0.00
5,200.0	23.88	211.37	4,817.2	-1,592.8	-971.0	1,865.1	0.00	0.00	0.00
5,300.0	23.88	211.37	4,908.7	-1,627.4	-992.1	1,905.5	0.00	0.00	0.00
5,400.0	23.88	211.37	5,000.1	-1,661.9	-1,013.2	1,946.0	0.00	0.00	0.00
5,500.0	23.88	211.37	5,091.6	-1,696.5	-1,034.2	1,986.5	0.00	0.00	0.00
5,600.0	23.88	211.37	5,183.0	-1,731.1	-1,055.3	2,027.0	0.00	0.00	0.00
5,700.0	23.88	211.37	5,274.4	-1,765.6	-1,076.4	2,067.4	0.00	0.00	0.00
5,800.0	23.88	211.37	5,365.9	-1,800.2	-1,097.5	2,107.9	0.00	0.00	0.00
Wasatch G									
5,881.1	23.88	211.37	5,440.0	-1,828.2	-1,114.5	2,140.7	0.00	0.00	0.00
5,900.0	23.88	211.37	5,457.3	-1,834.8	-1,118.5	2,148.4	0.00	0.00	0.00
6,000.0	23.88	211.37	5,548.7	-1,869.3	-1,139.6	2,188.9	0.00	0.00	0.00
6,100.0	23.88	211.37	5,640.2	-1,903.9	-1,160.7	2,229.3	0.00	0.00	0.00
6,200.0	23.88	211.37	5,731.6	-1,938.5	-1,181.7	2,269.8	0.00	0.00	0.00
Fort Union									
6,270.4	23.88	211.37	5,796.0	-1,962.8	-1,196.6	2,298.3	0.00	0.00	0.00
6,300.0	23.88	211.37	5,823.1	-1,973.0	-1,202.8	2,310.3	0.00	0.00	0.00
6,400.0	23.88	211.37	5,914.5	-2,007.6	-1,223.9	2,350.8	0.00	0.00	0.00
6,500.0	23.88	211.37	6,005.9	-2,042.2	-1,245.0	2,391.2	0.00	0.00	0.00
6,600.0	23.88	211.37	6,097.4	-2,076.7	-1,266.0	2,431.7	0.00	0.00	0.00
6,700.0	23.88	211.37	6,188.8	-2,111.3	-1,287.1	2,472.2	0.00	0.00	0.00
6,800.0	23.88	211.37	6,280.3	-2,145.9	-1,308.2	2,512.7	0.00	0.00	0.00
6,900.0	23.88	211.37	6,371.7	-2,180.4	-1,329.3	2,553.1	0.00	0.00	0.00
7,000.0	23.88	211.37	6,463.1	-2,215.0	-1,350.3	2,593.6	0.00	0.00	0.00
7,100.0	23.88	211.37	6,554.6	-2,249.6	-1,371.4	2,634.1	0.00	0.00	0.00
7,200.0	23.88	211.37	6,646.0	-2,284.1	-1,392.5	2,674.6	0.00	0.00	0.00
7,300.0	23.88	211.37	6,737.5	-2,318.7	-1,413.6	2,715.0	0.00	0.00	0.00
7,400.0	23.88	211.37	6,828.9	-2,353.3	-1,434.6	2,755.5	0.00	0.00	0.00
7,500.0	23.88	211.37	6,920.3	-2,387.8	-1,455.7	2,796.0	0.00	0.00	0.00
Drop 3° /100'									
7,599.0	23.88	211.37	7,010.8	-2,422.0	-1,476.6	2,836.0	0.00	0.00	0.00
7,600.0	23.85	211.37	7,011.8	-2,422.4	-1,476.8	2,836.5	3.00	-3.00	0.00
7,700.0	20.85	211.37	7,104.2	-2,454.9	-1,496.6	2,874.5	3.00	-3.00	0.00
7,800.0	17.85	211.37	7,198.6	-2,483.2	-1,513.8	2,907.6	3.00	-3.00	0.00
7,900.0	14.85	211.37	7,294.5	-2,507.2	-1,528.5	2,935.7	3.00	-3.00	0.00
8,000.0	11.85	211.37	7,391.8	-2,526.9	-1,540.5	2,958.8	3.00	-3.00	0.00
8,100.0	8.85	211.37	7,490.2	-2,542.2	-1,549.8	2,976.8	3.00	-3.00	0.00
8,200.0	5.85	211.37	7,589.3	-2,553.2	-1,556.5	2,989.6	3.00	-3.00	0.00
8,300.0	2.85	211.37	7,689.0	-2,559.6	-1,560.4	2,997.2	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
8,395.0	0.00	0.00	7,784.0	-2,561.7	-1,561.7	2,999.5	3.00	-3.00	0.00
8,400.0	0.08	250.17	7,789.0	-2,561.7	-1,561.7	2,999.5	1.50	1.50	0.00
EOB @ 1.55° Inc. / 250.17° Azm									
8,498.0	1.55	250.17	7,887.0	-2,562.1	-1,563.0	3,000.6	1.50	1.50	0.00
8,500.0	1.55	250.17	7,889.0	-2,562.1	-1,563.0	3,000.7	0.00	0.00	0.00
8,600.0	1.55	250.17	7,989.0	-2,563.1	-1,565.6	3,002.8	0.00	0.00	0.00
Williams Fork									
8,635.1	1.55	250.17	8,024.0	-2,563.4	-1,566.4	3,003.5	0.00	0.00	0.00
8,700.0	1.55	250.17	8,088.9	-2,564.0	-1,568.1	3,004.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well BJU G35 FED 15B-35 496 - Slot BJU G35 FED 15B-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 15B-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)
8,800.0	1.55	250.17	8,188.9	-2,564.9	-1,570.6	3,007.1	0.00	0.00	0.00
8,900.0	1.55	250.17	8,288.9	-2,565.8	-1,573.2	3,009.2	0.00	0.00	0.00
9,000.0	1.55	250.17	8,388.8	-2,566.7	-1,575.7	3,011.3	0.00	0.00	0.00
9,100.0	1.55	250.17	8,488.8	-2,567.6	-1,578.2	3,013.5	0.00	0.00	0.00
9,200.0	1.55	250.17	8,588.7	-2,568.5	-1,580.8	3,015.6	0.00	0.00	0.00
9,300.0	1.55	250.17	8,688.7	-2,569.5	-1,583.3	3,017.8	0.00	0.00	0.00
9,400.0	1.55	250.17	8,788.7	-2,570.4	-1,585.9	3,019.9	0.00	0.00	0.00
9,500.0	1.55	250.17	8,888.6	-2,571.3	-1,588.4	3,022.0	0.00	0.00	0.00
9,600.0	1.55	250.17	8,988.6	-2,572.2	-1,590.9	3,024.2	0.00	0.00	0.00
9,700.0	1.55	250.17	9,088.6	-2,573.1	-1,593.5	3,026.3	0.00	0.00	0.00
9,800.0	1.55	250.17	9,188.5	-2,574.0	-1,596.0	3,028.4	0.00	0.00	0.00
9,900.0	1.55	250.17	9,288.5	-2,575.0	-1,598.5	3,030.6	0.00	0.00	0.00
10,000.0	1.55	250.17	9,388.5	-2,575.9	-1,601.1	3,032.7	0.00	0.00	0.00
10,100.0	1.55	250.17	9,488.4	-2,576.8	-1,603.6	3,034.8	0.00	0.00	0.00
10,200.0	1.55	250.17	9,588.4	-2,577.7	-1,606.2	3,037.0	0.00	0.00	0.00
10,300.0	1.55	250.17	9,688.3	-2,578.6	-1,608.7	3,039.1	0.00	0.00	0.00
10,400.0	1.55	250.17	9,788.3	-2,579.5	-1,611.2	3,041.2	0.00	0.00	0.00
10,500.0	1.55	250.17	9,888.3	-2,580.4	-1,613.8	3,043.4	0.00	0.00	0.00
10,600.0	1.55	250.17	9,988.2	-2,581.4	-1,616.3	3,045.5	0.00	0.00	0.00
10,700.0	1.55	250.17	10,088.2	-2,582.3	-1,618.8	3,047.7	0.00	0.00	0.00
10,800.0	1.55	250.17	10,188.2	-2,583.2	-1,621.4	3,049.8	0.00	0.00	0.00
10,900.0	1.55	250.17	10,288.1	-2,584.1	-1,623.9	3,051.9	0.00	0.00	0.00
11,000.0	1.55	250.17	10,388.1	-2,585.0	-1,626.5	3,054.1	0.00	0.00	0.00
11,100.0	1.55	250.17	10,488.1	-2,585.9	-1,629.0	3,056.2	0.00	0.00	0.00
11,200.0	1.55	250.17	10,588.0	-2,586.8	-1,631.5	3,058.3	0.00	0.00	0.00
11,300.0	1.55	250.17	10,688.0	-2,587.8	-1,634.1	3,060.5	0.00	0.00	0.00
Cameo									
11,335.0	1.55	250.17	10,723.0	-2,588.1	-1,635.0	3,061.2	0.00	0.00	0.00
11,400.0	1.55	250.17	10,787.9	-2,588.7	-1,636.6	3,062.6	0.00	0.00	0.00
11,500.0	1.55	250.17	10,887.9	-2,589.6	-1,639.1	3,064.7	0.00	0.00	0.00
11,600.0	1.55	250.17	10,987.9	-2,590.5	-1,641.7	3,066.9	0.00	0.00	0.00
11,700.0	1.55	250.17	11,087.8	-2,591.4	-1,644.2	3,069.0	0.00	0.00	0.00
11,800.0	1.55	250.17	11,187.8	-2,592.3	-1,646.8	3,071.2	0.00	0.00	0.00
11,900.0	1.55	250.17	11,287.8	-2,593.3	-1,649.3	3,073.3	0.00	0.00	0.00
Rollins									
11,950.3	1.55	250.17	11,338.0	-2,593.7	-1,650.6	3,074.4	0.00	0.00	0.00
12,000.0	1.55	250.17	11,387.7	-2,594.2	-1,651.8	3,075.4	0.00	0.00	0.00
12,100.0	1.55	250.17	11,487.7	-2,595.1	-1,654.4	3,077.6	0.00	0.00	0.00
TD @ 12150.3' MD / 11538.0' TVD									
12,150.3	1.55	250.17	11,538.0	-2,595.5	-1,655.6	3,078.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well BJU G35 FED 15B-35 496 - Slot BJU G35 FED 15B-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 15B-35 496	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
OHCR - BJ G35 15B- - plan hits target center - Point	0.00	0.00	7,784.0	-2,561.7	-1,561.7	14,412,624.88	2,445,623.75	39.653271	-108.139498
PBHL - BJ G35 15B-: - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	11,538.0	-2,595.5	-1,655.6	14,412,588.00	2,445,530.90	39.653178	-108.139832

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,600.2	2,440.0	Wasatch			
5,881.1	5,440.0	Wasatch G			
6,270.4	5,796.0	Fort Union			
8,395.0	7,784.0	Ohio Creek			
8,395.0	7,784.0	TOG			
8,635.1	8,024.0	Williams Fork			
11,335.0	10,723.0	Cameo			
11,950.3	11,338.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
200.0	200.0	0.0	0.0	Build 3° / 100'
996.0	973.2	-139.6	-85.1	EOB @ 23.88° Inc. / 211.37° Azm
7,599.0	7,010.8	-2,422.0	-1,476.6	Drop 3° /100'
8,395.0	7,784.0	-2,561.7	-1,561.7	EOD @ Vertical / Build 1.5° / 100'
8,498.0	7,887.0	-2,562.1	-1,563.0	EOB @ 1.55° Inc. / 250.17° Azm
12,150.3	11,538.0	-2,595.5	-1,655.6	TD @ 12150.3' MD / 11538.0' TVD