

**State of Colorado**  
**Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
Document Number: <b>403288172</b>			
Date Received: <b>04/18/2023</b>			

**SUNDRY NOTICE**

This form is required for reports, updates, and requests as specified in the COGCC rules. It is also used to request changes to some aspects of approved permits for Wells and Oil and Gas Locations.

OGCC Operator Number: <u>10456</u>	Contact Name <u>Reed Haddock</u>
Name of Operator: <u>CAERUS PICEANCE LLC</u>	Phone: <u>(720) 880-6369</u>
Address: <u>1001 17TH STREET #1600</u>	Fax: <u>(303) 565-4606</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>	Email: <u>rhaddock@caerusoilandgas.com</u>

**FORM 4 SUBMITTED FOR:**

Facility Type: WELL

API Number : 05- 045 24374 00 ID Number: 478256

Name: BJU M23A FED Number: 25B-22-496

Location QtrQtr: SWSW Section: 23 Township: 4S Range: 96W Meridian: 6

County: GARFIELD Field Name: GRAND VALLEY

**Oil & Gas Location(s) and Oil & Gas Development Plan (OGDP) Information**

**Location(s)**

Location ID	Location Name and Number
478266	BJU M23A-496 Pad

**OGDP(s)**

No OGDP

**WELL LOCATION CHANGE OR AS-BUILT GPS REPORT**

Change of Location for Well \*     As-Built GPS Location Report     As-Built GPS Location Report with Survey

\* Well Location Change requires a new Plat.

**SURFACE LOCATION GPS DATA**      Data must be provided for Change of Surface Location and As Built Reports.

Latitude 39.684049      Longitude -108.140850

GPS Quality Value: 1.4      Type of GPS Quality Value: PDOP      Measurement Date: 01/10/2023

Well Ground Elevation: 8109 feet (Required for change of Surface Location.)

**WELL LOCATION CHANGE**

Well plan is: DIRECTIONAL (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From**:

Change of **Surface** Footage **To**:

Current <b>Surface</b> Location <b>From</b>	QtrQtr	<u>SWSW</u>	Sec	<u>23</u>	Twp	<u>4S</u>	Range	<u>96W</u>	Meridian	<u>6</u>
New <b>Surface</b> Location <b>To</b>	QtrQtr	<u>SWSW</u>	Sec	<u>23</u>	Twp	<u>4S</u>	Range	<u>96W</u>	Meridian	<u>6</u>

FNL/FSL		FEL/FWL	
<u>1234</u>	<u>FSL</u>	<u>1274</u>	<u>FWL</u>
<u>1268</u>	<u>FSL</u>	<u>1283</u>	<u>FWL</u>

Change of **Top of Productive Zone** Footage **From:**

1012 FSL

1226 FEL

Change of **Top of Productive Zone** Footage **To:**

1496 FSL

916 FEL

\*\*

Current **Top of Productive Zone** Location

Sec 22

Twp 4S

Range 96W

New **Top of Productive Zone** Location

Sec 22

Twp 4S

Range 96W

Change of **Base of Productive Zone** Footage **From:**

FSL

FEL

Change of **Base of Productive Zone** Footage **To:**

1462 FSL

1011 FEL

\*\*

Current **Base of Productive Zone** Location

Sec

Twp

Range

New **Base of Productive Zone** Location

Sec 22

Twp 4S

Range 96W

Change of **Bottomhole** Footage **From:**

979 FSL

1321 FEL

Change of **Bottomhole** Footage **To:**

1462 FSL

1011 FEL

\*\*

Current **Bottomhole** Location

Sec 22

Twp 4S

Range 96W

\*\* attach deviated drilling plan

New **Bottomhole** Location

Sec 22

Twp 4S

Range 96W

### SAFETY SETBACK INFORMATION

Required for change of Surface Location.

Distance from Well to nearest:

Building: 5280 Feet  
 Building Unit: 5280 Feet  
 Public Road: 4690 Feet  
 Above Ground Utility: 5280 Feet  
 Railroad: 5280 Feet  
 Property Line: 4094 Feet

#### INSTRUCTIONS:

- Specify all distances per Rule 308.b.(1).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit – as defined in 100 Series Rules.

### SUBSURFACE MINERAL SETBACKS

Required for change of Top and/or Base of Productive Zone. Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 3820 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 280 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: \_\_\_\_\_ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: \_\_\_\_\_ Feet

### Exception Location

If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers. \_\_\_\_\_

### LOCATION CHANGE COMMENTS

\_\_\_\_\_



Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

**Field inspection will be conducted to document Rule 1004.c. compliance**

Comments:

**ENGINEERING AND ENVIRONMENTAL WORK**

REPORT OF TEMPORARY ABANDONMENT

Describe the method used to ensure that the Well is closed to the atmosphere and the Operator's plans for future operation of the Well in the COMMENTS box below as required by Rule 434.b.(1).

REQUEST FOR TEMPORARY ABANDONMENT EXCEEDING 6 MONTHS

State the reason for the extension request and explain the Operator's plans for future operation of the Well in the COMMENTS box below as required by Rule 434.b.(3).

Date well temporarily abandoned \_\_\_\_\_

Has Production Equipment been removed from site? \_\_\_\_\_

Mechanical Integrity Test (MIT) required. Date of last MIT \_\_\_\_\_

**TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK**

Details of work must be described in full in the COMMENTS below or provided as an attachment.

NOTICE OF INTENT/REQUEST FOR APPROVAL      Approximate Start Date    06/01/2023

SUBSEQUENT REPORT      Date of Activity \_\_\_\_\_

<input type="checkbox"/> Bradenhead Plan	<input type="checkbox"/> Venting or Flaring (Rule 903)	<input type="checkbox"/> E&P Waste Mangement
<input checked="" type="checkbox"/> Change Drilling Plan	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Change		
<input type="checkbox"/> Underground Injection Control		
<input type="checkbox"/> Request approval of Reuse and Recycling Plan per Rule 905.a.(3). (Reuse and Recycling Plan must be attached.)		
<input type="checkbox"/> Request approval of Alternative Sampling Plan per Rule 909.j.(6). for this Pit. (Alternative Sampling Program must be attached.)		
<input type="checkbox"/> Other		

Request that an existing produced water sample from the same formation be used per Rule 909.j.(6) to meet the requirements of Rule 909.j.(1)-(5) for this Well.

Pit ID \_\_\_\_\_ Pit Name \_\_\_\_\_

(No Sample Provided)

Subsequent well operations with heavy equipment (Rule 312)

(No Well Provided)

COMMENTS:

**GAS CAPTURE**

VENTING AND FLARING:

Operation type: \_\_\_\_\_ Operational phase requiring venting/flaring: \_\_\_\_\_

Reason for venting/flaring: \_\_\_\_\_

Describe Other reason for venting/flaring:

\_\_\_\_\_

Describe why venting or flaring is necessary. If reporting per Rule 903.b.(2), 903.c.(3).C, or 903.d.(2), include the explanation, rationale, and cause of the event:

\_\_\_\_\_

Describe how the operation will protect and minimize adverse impacts to public health, safety, welfare, the environment, and wildlife resources. If reporting per Rule 903.d.(2), include BMPs used to minimize venting on the BMP Tab:

\_\_\_\_\_

Total volume of gas vented or flared: \_\_\_\_\_ mcf  estimated  measured

Total duration of emission event: \_\_\_\_\_ hours  consecutive  cumulative

Submit a single representative gas analysis via Form 43 to create a Sample Site Facility ID# for this Location. Reference the Form 43 document number on the Related Forms tab.

Sample Site Facility ID#: \_\_\_\_\_

**GAS CAPTURE PLAN**

Describe the plan to connect to a gathering line or beneficially use the gas; include anticipated timeline:

\_\_\_\_\_

A Gas Capture Plan that meets the requirements of Rule 903.e is attached.

**CASING PROGRAM**

<u>Casing Type</u>	<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Grade</u>	<u>Wt/Ft</u>	<u>Csg/Liner Top</u>	<u>Setting Depth</u>	<u>Sacks Cmt</u>	<u>Cmt Btm</u>	<u>Cmt Top</u>
CONDUCTOR	30	20	A252	54#	0	100	218	100	0
SURF	14+3/4	9+5/8	J55	36#	0	3000	710	3000	1400
1ST	8+3/4	4+1/2	HCP110	11.6#	0	12516	1424	12516	3500
		9+5/8		Stage Tool	0	1400	312	1400	0

**POTENTIAL FLOW AND CONFINING FORMATIONS**

<u>Zone Type</u>	<u>Formation /Hazard</u>	<u>Top M.D.</u>	<u>Top T.V.D.</u>	<u>Bottom M.D.</u>	<u>Bottom T.V.D.</u>	<u>TDS (mg/L)</u>	<u>Data Source</u>	<u>Comment</u>
Groundwater	Green River	0	0	3400	3278	501-1000	CGS	
Confining Layer	Wasatch	3454	3330	5966	5730			
Hydrocarbon	Wasatch G	5966	5730	6280	6030			The Wasatch G is a nonproductive zone in the referenced area of the basin.
Confining Layer	Fort Union	6280	6030	8352	8027			
Hydrocarbon	Ohio Creek	8352	8027	8747	8422	>10000	Produced Water Sample	
Hydrocarbon	Williams Fork	8747	8422	11516	11190	>10000	Produced Water Sample	
Hydrocarbon	Cameo	11516	11190	12016	11690	>10000	Produced Water Sample	
Hydrocarbon	Rollins	12016	11690	12516	12190	>10000	Produced Water Sample	

**H2S REPORTING**

- Intentional release of H2S gas due to Upset Condition or malfunction.
- Intent to temporarily abandon well with potential H2S concentration >100 ppm.

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

**Gas Analysis Report must be attached.**

H2S Concentration: \_\_\_\_\_ in ppm (parts per million)

Date of Measurement or Sample Collection \_\_\_\_\_

Description of Sample Point:

Absolute Open Flow Potential \_\_\_\_\_ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: \_\_\_\_\_

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: \_\_\_\_\_

COMMENTS:

**OIL & GAS LOCATION UPDATES**

OGDP ID \_\_\_\_\_ OGDP Name \_\_\_\_\_

**SITE EQUIPMENT LIST UPDATES**

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

Wells _____	Oil Tanks _____	Condensate Tanks _____	Water Tanks _____	Buried Produced Water Vaults _____
Drilling Pits _____	Production Pits _____	Special Purpose Pits _____	Multi-Well Pits _____	Modular Large Volume Tank _____
Pump Jacks _____	Separators _____	Injection Pumps _____	Heater-Treaters _____	Gas Compressors _____
Gas or Diesel Motors _____	Electric Motors _____	Electric Generators _____	Fuel Tanks _____	LACT Unit _____
Dehydrator Units _____	Vapor Recovery Unit _____	VOC Combustor _____	Flare _____	Enclosed Combustion Devices _____
Meter/Sales Building _____	Pigging Station _____		Vapor Recovery Towers _____	

**OTHER PERMANENT EQUIPMENT UPDATES**

**OTHER TEMPORARY EQUIPMENT UPDATES**

**CULTURAL AND SAFETY SETBACK UPDATES**

**OTHER LOCATION CHANGES AND UPDATES**

Provide a description of other changes or updates to technical information for this Location:

POTENTIAL OGDG UPDATES

PROPOSED CHANGES TO AN APPROVED OGDG

This Sundry Form 4 is being submitted pursuant to Rule 301.c to propose changes to an approved Oil and Gas Development Plan.

Check all boxes that pertain to the type(s) of changes being proposed for this OGDG:

- Add Oil and Gas Location(s)
- Add Drilling and Spacing Unit(s)
- Amend Oil and Gas Location(s)
- Amend Drilling and Spacing Unit(s)
- Remove Oil and Gas Location(s)
- Remove Drilling and Spacing Unit(s)
- Oil and Gas Location attachment or plan updates
- Amend the lands subject to the OGDG
- Other

Provide a detailed description of the changes being proposed for this OGDG. Attach supporting documentation such as maps if necessary.

[Empty text box for description]

**Best Management Practices**

**No BMP/COA Type**

**Description**



Operator Comments:

[Empty text box for operator comments]

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Reed Haddock

Title: Regulatory Lead Email: rhaddock@caerusoilandgas.com Date: 4/18/2023

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Katz, Aaron Date: 5/17/2023

**CONDITIONS OF APPROVAL, IF ANY:**

<b>COA Type</b>	<b>Description</b>
	<p>1) Operator shall comply with the most current revision of the Northwest Notification Policy.</p> <p>2) Operator shall comply with the most current revision of the Garfield County Rulison Field Notice to Operators, with the following exception: All field notice requirements specified in that Notice to Operators are superseded by the requirements of the most current revision of the Northwest Colorado Notification Policy (see Condition of Approval #1).</p> <p>3) Operator shall provide cement coverage from the production casing shoe (4 1/2" FIRST STRING) to a minimum of 200' above the Wasatch G as defined by COGCC in the report "Casing and Cement Standards for Geologic Isolation Piceance Basin Bradenhead Monitoring Area and Nearby Fields," dated April 18, 2016, COGCC Document No. 2056199, Appendix A Field Scout Cards and Annotated Type Logs) to provide isolation of the Lower Wasatch, all Mesaverde Group formations including the Ohio Creek Formation, and underlying formations, if penetrated. Verify production casing cement coverage with a cement bond log.</p>
1 COA	

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	<p>Offset Well Evaluation: Existing offset oil and gas wells within 1,500 feet of this wellbore meet standards. No mitigation required. Active Wasatch G injection wells owned by Caerus, SGU *CP01B-27 M23 49, SGU *8506B F26 496 are within the offset evaluation areas. The injection well has been taken into consideration for the cement coverage COA#3.</p> <p>Offset water well check: COGCC evaluated offset water wells within one mile of this proposed well's surface hole location. This information in addition to locally-available geophysical logs and hydrogeologic information was used to evaluate the adequacy of the operator's proposed surface casing setting depth. The deepest water well within one mile is 235 feet. None of the water wells within one mile are for domestic use.</p> <p>Corrected casing table stage tool line item to meet casing table data specifications</p> <p>Offset well SGU #CP12D-23 has a primary TOC of 8450 ft. and a TOC of 6910 from remedial cement operations. Area engineer contacted Operator to discuss Offset Well Review data.</p> <p>The BH pressures in the offset well review table are the most current field measured values</p> <p>Offset well evaluation Doc 403198438</p>	05/17/2023

Total: 1 comment(s)

### Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403288172	SUNDRY NOTICE APPROVED-LOC-SFTY-STBK-MNRL-STBK-OBJ-DRLG-CSG
403288176	DEVIATED DRILLING PLAN
403288179	DIRECTIONAL DATA
403296934	WELL LOCATION PLAT
403405679	FORM 4 SUBMITTED
Total Attach: 5 Files	