

State of Colorado
Oil and Gas Conservation Commission

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| | | | |
|--------------------------------------|----|----|----|
| DE | ET | OE | ES |
| Document Number: <u>403286580</u> | | | |
| Date Received: <u>04/18/2023</u> | | | |

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.

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|--|--|
| 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 24381 00 ID Number: 478263

Name: BJU M23A FED Number: 21B-26-496

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 39.683954 Longitude -108.140884

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

Well Ground Elevation: 8110 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 Surface Location From | QtrQtr | <u>SWSW</u> | Sec | <u>23</u> | Twp | <u>4S</u> | Range | <u>96W</u> | Meridian | <u>6</u> |
| New Surface Location To | 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>1277</u> | <u>FSL</u> | <u>1286</u> | <u>FWL</u> |
| <u>1234</u> | <u>FSL</u> | <u>1274</u> | <u>FWL</u> |

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

118 FNL

1866 FEL

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

15 FSL

2230 FEL **

Current **Top of Productive Zone** Location

Sec 26

Twp 4S

Range 96W

New **Top of Productive Zone** Location

Sec 23

Twp 4S

Range 96W

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

FNL

FEL

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

15 FNL

2324 FEL **

Current **Base of Productive Zone** Location

Sec

Twp

Range

New **Base of Productive Zone** Location

Sec 26

Twp 4S

Range 96W

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

152 FNL

1960 FEL

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

20 FNL

2324 FEL **

Current **Bottomhole** Location

Sec 26

Twp 4S

Range 96W

** attach deviated drilling plan

New **Bottomhole** Location

Sec 26

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: 4657 Feet
 Above Ground Utility: 5280 Feet
 Railroad: 5280 Feet
 Property Line: 4129 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: 5280 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: 300 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

| Casing Type | Size of Hole | Size of Casing | Grade | Wt/Ft | Csg/Liner Top | Setting Depth | Sacks Cmt | Cmt Btm | Cmt Top |
|-------------|--------------|----------------|--------|------------|---------------|---------------|-----------|---------|---------|
| 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 | 12661 | 1448 | 12661 | 3500 |
| | | 9+5/8 | | Stage Tool | | 1400 | 312 | 1400 | 0 |

POTENTIAL FLOW AND CONFINING FORMATIONS

| Zone Type | Formation /Hazard | Top M.D. | Top T.V.D. | Bottom M.D. | Bottom T.V.D. | TDS (mg/L) | Data Source | Comment |
|-----------------|-------------------|----------|------------|-------------|---------------|------------|-----------------------|--|
| Groundwater | Green River | 0 | 0 | 3500 | 3377 | 501-1000 | CGS | |
| Confining Layer | Wasatch | 3510 | 3387 | 6019 | 5787 | | | |
| Hydrocarbon | Wasatch G | 6019 | 5787 | 6333 | 6087 | | | The Wasatch G is a nonproductive zone in the referenced area of the basin. |
| Confining Layer | Fort Union | 6333 | 6087 | 8389 | 8070 | | | |
| Hydrocarbon | Ohio Creek | 8389 | 8070 | 8735 | 8416 | >10000 | Produced Water Sample | |
| Hydrocarbon | Williams Fork | 8735 | 8416 | 11661 | 11341 | >10000 | Produced Water Sample | |
| Hydrocarbon | Cameo | 11661 | 11341 | 12161 | 11841 | >10000 | Produced Water Sample | |
| Hydrocarbon | Rollins | 12161 | 11841 | 12661 | 12341 | >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

| 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:

| COA Type | Description |
|-----------------|---|
| 1 COA | <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> <p>4) During stimulation, operator shall monitor the bradenhead, casing, and tubing pressure of the proposed well and all offset wells under Operator's control which penetrate the stimulated formation and have a treated interval separation of 300 feet or less. Operator shall notify COGCC Engineering staff if bradenhead pressures increase by more than 200 psig.</p> |

General Comments

| User Group | Comment | Comment Date |
|-------------------|--|---------------------|
| 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 403198428</p> | 05/17/2023 |
| Permit | Corrected BHL footage to reflect well location plat | 05/03/2023 |

Total: 2 comment(s)

Attachment List

| Att Doc Num | Name |
|-----------------------|---|
| 403286580 | SUNDRY NOTICE APPROVED-LOC-SFTY-STBK-MNRL-STBK-OBJ-DRLG-CSG |
| 403286585 | DEVIATED DRILLING PLAN |
| 403286590 | DIRECTIONAL DATA |
| 403296141 | WELL LOCATION PLAT |
| 403405634 | FORM 4 SUBMITTED |
| Total Attach: 5 Files | |