

State of Colorado
Oil and Gas Conservation Commission1120 Lincoln Street, Suite 801, Denver, Colorado 80203
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Document Number:
403298880

Date Received:

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>10110</u> | Contact Name <u>Ally</u> <u>Ota</u> |
| Name of Operator: <u>GREAT WESTERN OPERATING COMPANY LLC</u> | Phone: <u>(303) 860-5800</u> |
| Address: <u>1775 SHERMAN STREET STE 3000</u> | Fax: <u>()</u> |
| City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u> | Email: <u>regulatory@pdce.com</u> |

FORM 4 SUBMITTED FOR:

Facility Type: WELL

API Number : 05- 123 48286 00 ID Number: 458239

Name: Ottesen LE Number: 06-050HN

Location QtrQtr: NWSE Section: 33 Township: 1N Range: 66W Meridian: 6

County: WELD Field Name: WATTENBERG

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

Location(s)

| Location ID | Location Name and Number |
|-------------|--------------------------|
| 449521 | Ottesen LE 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 _____ Longitude _____

GPS Quality Value: _____ Type of GPS Quality Value: _____ Measurement Date: _____

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

WELL LOCATION CHANGE

Well plan is: HORIZONTAL (Vertical, Directional, Horizontal)Change of **Surface** Footage **From**:Change of **Surface** Footage **To**:

| | | FNL/FSL | | FEL/FWL | |
|---|----------------------------------|---------------|------------------|-------------------|--|
| Current Surface Location From | QtrQtr <u>NWSE</u> Sec <u>33</u> | Twp <u>1N</u> | Range <u>66W</u> | Meridian <u>6</u> | |
| New Surface Location To | QtrQtr <u></u> Sec <u></u> | Twp <u></u> | Range <u></u> | Meridian <u></u> | |

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

1371 FSL

1427 FEL

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

1854 FSL

460 FEL

**

Current **Top of Productive Zone** Location

Sec 33

Twp 1S

Range 66W

New **Top of Productive Zone** Location

Sec 5

Twp 1S

Range 66W

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

FSL

FEL

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

1853 FSL

2503 FEL

**

Current **Base of Productive Zone** Location

Sec

Twp

Range

New **Base of Productive Zone** Location

Sec 6

Twp 1S

Range 66W

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

1371 FSL

1427 FEL

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

1853 FSL

2503 FEL

**

Current **Bottomhole** Location

Sec 33

Twp 1S

Range 66W

** attach deviated drilling plan

New **Bottomhole** Location

Sec 6

Twp 1S

Range 66W

SAFETY SETBACK INFORMATION

Required for change of Surface Location.

Distance from Well to nearest:

Building: _____ Feet
Building Unit: _____ Feet
Public Road: _____ Feet
Above Ground Utility: _____ Feet
Railroad: _____ Feet
Property Line: _____ 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: 150 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: 175 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

CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT

| Objective Formation | Formation Code | Spacing Order Number | Unit Acreage | Unit Configuration | Add | Modify | No Change | Delete |
|---------------------|----------------|----------------------|--------------|----------------------|-----|--------|-----------|--------|
| NIOBRARA | NBRR | 407-2614 | 906 | Sec 5: All, Sec 6: E | | | X | |

OTHER

☐ RULE 502 VARIANCE

Order Number: _____

Description: _____

☐ REMOVE FROM SURFACE BOND Signed surface use agreement is a required attachment☒ CHANGE NAME OR NUMBER OF WELL, FACILITY, OIL & GAS LOCATION, OR OGD

From: Name OTTESEN LE Number 06-050HN Effective Date: 11/30/2022

To: Name Ottesen Number 16N

☐ ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted.
Field inspection will be conducted to verify site status.☐ WELL: Abandon Application for Permit-to-Drill (Form2) – Well API Number _____ has not been drilled.☐ PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number _____ has not been constructed (Permitted and constructed pit requires closure per Rule 911)☐ CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number _____ has not been constructed (Constructed facility requires closure per Rule 907)

OIL & GAS LOCATION ID Number: _____

☐ Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.☐ Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.

☐ REQUEST FOR WELL RECORDS CONFIDENTIALITY (Rule 206.c.(1))☐ DIGITAL WELL LOG UPLOAD☐ DOCUMENTS SUBMITTED Purpose of Submission: _____☐ COMPLIANCE with CONDITION OF APPROVAL (COA) on Form NO: _____ Document Number: _____

RECLAMATION

INTERIM RECLAMATION

☐ Interim Reclamation will commence approximately _____

Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

☐ Interim reclamation complete, site ready for inspection.
Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

Field inspection will be conducted to document Rule 1003.e. compliance

FINAL RECLAMATION

☐ Final Reclamation will commence approximately _____

Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

☐

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 05/01/2023

☐ **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:

PDC requests to move the TPZ and BHL of this well. Revised well location plat and directional drilling plan are attached.

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> |
|--------------------|---------------------|-----------------------|--------------|--------------|----------------------|----------------------|------------------|----------------|----------------|
| 1ST | 8+1/2 | 5+1/2 | P-110 | 20 | 0 | 17569 | 3750 | 17569 | 1200 |

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 | Arapahoe | 139 | 139 | 495 | 495 | 1001-10000 | DWR | COGCC UPWQ Study |
| Groundwater | Fox Hills Sandstone | 867 | 867 | 1106 | 1106 | 1001-10000 | DWR | COGCC UPWQ Study |
| Confining Layer | Pierre Shale | 1515 | 1515 | 1642 | 1642 | | | |
| Groundwater | UPIR/Pawnee Aquifer | 1642 | 1642 | 2160 | 2160 | 1001-10000 | Other | COGCC UPWQ Study |
| Confining Layer | Pierre Shale | 2160 | 2160 | 4385 | 4385 | | | |
| Hydrocarbon | Parkman | 4385 | 4385 | 4585 | 4585 | | | |
| Confining Layer | Pierre Shale | 4585 | 4585 | 4765 | 4765 | | | |
| Hydrocarbon | Sussex | 4765 | 765 | 4944 | 4944 | | | |
| Confining Layer | Pierre Shale | 4944 | 4944 | 5495 | 5495 | | | |
| Hydrocarbon | Shannon | 5495 | 5495 | 5572 | 5572 | | | |
| Confining Layer | Pierre Shale | 5572 | 5572 | 9458 | 7180 | | | |
| Subsurface Hazard | Sharon Spring Shale | 9458 | 7180 | 9488 | 7199 | | | |
| Hydrocarbon | Niobrara | 9488 | 7199 | 17569 | 7524 | | | |

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:

- | | |
|--|--|
| <input type="checkbox"/> Add Oil and Gas Location(s) | <input type="checkbox"/> Add Drilling and Spacing Unit(s) |
| <input type="checkbox"/> Amend Oil and Gas Location(s) | <input type="checkbox"/> Amend Drilling and Spacing Unit(s) |
| <input type="checkbox"/> Remove Oil and Gas Location(s) | <input type="checkbox"/> Remove Drilling and Spacing Unit(s) |
| <input type="checkbox"/> Oil and Gas Location attachment or plan updates | <input type="checkbox"/> Amend the lands subject to the OGDG |
| <input type="checkbox"/> Other | |

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

Best Management Practices

No BMP/COA Type

Description

| | |
|--|--|
| | |
|--|--|

Operator Comments:

Sundry is being submitted to change TPZ and BHL, as well as update well name.
The distance from the completed zone to the completed zone of an offset well within the same unit was measured to the Ottesen 15C (05-123-48289) via COGCC GIS mapping, 2D plain view.

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

Signed: _____ Print Name: Ally Ota
Title: Regulatory Analyst Email: alexandria.ota@pdce.com Date: _____

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

COGCC Approved: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

| | |
|-------|--|
| | |
| 0 COA | |

General Comments

User Group

Comment

Comment Date

| | | |
|--|--|---------------------|
| | | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)

Attachment List

Att Doc Num

Name

| | |
|-----------|------------------------|
| 403298903 | DEVIATED DRILLING PLAN |
| 403298904 | DIRECTIONAL DATA |
| 403298906 | WELL LOCATION PLAT |

Total Attach: 3 Files