

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: <u>400964497</u> | | | |
| Date Received: <u>01/05/2016</u> | | | |

SUNDRY NOTICE

Submit a signed original. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full in Comments or provide as an attachment. Identify Well by API Number; identify Oil and Gas Location by Location ID Number; identify other Facility by Facility ID Number.

| | |
|---|--------------------------------------|
| OGCC Operator Number: <u>10450</u> | Contact Name <u>Kimberly Rodell</u> |
| Name of Operator: <u>EE3 LLC</u> | Phone: <u>(303) 942-0506</u> |
| Address: <u>4410 ARAPAHOE AVENUE #100</u> | Fax: <u>()</u> |
| City: <u>BOULDER</u> State: <u>CO</u> Zip: <u>80303</u> | Email: <u>krodell@upstreampm.com</u> |

| | |
|--|--|
| API Number : <u>05-</u> <u>057</u> <u>06536</u> <u>00</u> | OGCC Facility ID Number: <u>439660</u> |
| Well/Facility Name: <u>Hebron</u> | Well/Facility Number: <u>01-18HR</u> |
| Location QtrQtr: <u>NWNE</u> Section: <u>18</u> Township: <u>7N</u> Range: <u>80W</u> Meridian: <u>6</u> | |
| County: <u>JACKSON</u> Field Name: <u>NORTH PARK HORIZONTAL NIOBRARA</u> | |
| Federal, Indian or State Lease Number: _____ | |

Complete the Attachment
Checklist

OP OGCC

| | | |
|---------------------|--|--|
| Survey Plat | | |
| Directional Survey | | |
| Srvc Eqpmt Diagram | | |
| Technical Info Page | | |
| Other | | |

CHANGE OF LOCATION OR AS BUILT GPS REPORT

☒ Change of Location * ☐ As-Built GPS Location Report ☐ As-Built GPS Location Report with Survey

* Well location change requires new plat. A substantive surface location change may require new Form 2A.

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

Latitude _____ PDOP Reading _____ Date of Measurement _____
Longitude _____ GPS Instrument Operator's Name _____

LOCATION CHANGE (all measurements in Feet)

Well will be: HORIZONTAL (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From** Exterior Section Lines:

Change of **Surface** Footage **To** Exterior Section Lines:

Current **Surface** Location **From** QtrQtr NWNE Sec 18

New **Surface** Location **To** QtrQtr _____ Sec _____

Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:

Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:

Current **Top of Productive Zone** Location **From** Sec 7

New **Top of Productive Zone** Location **To** Sec 18

Change of **Bottomhole** Footage **From** Exterior Section Lines:

Change of **Bottomhole** Footage **To** Exterior Section Lines:

Current **Bottomhole** Location Sec 7 Twp 7N

New **Bottomhole** Location Sec 7 Twp 7N

Is location in High Density Area? No

Distance, in feet, to nearest building 1096, public road: 2419, above ground utility: 247, railroad: 5280,

property line: 221, lease line: 467, well in same formation: 20

Ground Elevation 8153 feet Surface owner consultation date _____

| FNL/FSL | | FEL/FWL | |
|---------------|------------------|-------------------|---------------|
| <u>221</u> | <u>FNL</u> | <u>2419</u> | <u>FEL</u> |
| _____ | _____ | _____ | _____ |
| Twp <u>7N</u> | Range <u>80W</u> | Meridian <u>6</u> | |
| Twp _____ | Range _____ | Meridian _____ | |
| <u>610</u> | <u>FSL</u> | <u>2480</u> | <u>FEL</u> |
| <u>169</u> | <u>FNL</u> | <u>2418</u> | <u>FEL</u> ** |
| Twp <u>7N</u> | Range <u>80W</u> | | |
| Twp <u>7N</u> | Range <u>80W</u> | | |
| <u>600</u> | <u>FNL</u> | <u>782</u> | <u>FEL</u> |
| <u>300</u> | <u>FNL</u> | <u>2310</u> | <u>FEL</u> ** |

** attach deviated drilling plan

CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT

| <u>Objective Formation</u> | <u>Formation Code</u> | <u>Spacing Order Number</u> | <u>Unit Acreage</u> | <u>Unit Configuration</u> |
|----------------------------|-----------------------|-----------------------------|---------------------|---------------------------|
| NIOBRARA | NBRR | 531-18 | 640 | Sec. 7: All |

OTHER CHANGES

☐ **REMOVE FROM SURFACE BOND** Signed surface use agreement is a required attachment

☐ **CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER**

From: Name HEBRON Number 01-18HR Effective Date: _____

To: Name _____ Number _____

☐ **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 905)

☐ **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 908)

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 CONFIDENTIAL STATUS**

☐ **DIGITAL WELL LOG UPLOAD**

☐ **DOCUMENTS SUBMITTED** Purpose of Submission: _____

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

☐ NOTICE OF CONTINUED TEMPORARILY ABANDONED STATUS

Indicate why the well is temporarily abandoned and describe future plans for utilization in the COMMENTS box below or provide as an attachment, as required by Rule 319.b.(3).

Date well temporarily abandoned _____ Has Production Equipment been removed from site? _____

Mechanical Integrity Test (MIT) required if shut in longer than 2 years. Date of last MIT _____

☐ SPUD DATE: _____

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 Approximate Start Date 01/15/2016

☐ REPORT OF WORK DONE Date Work Completed _____

- | | | |
|--|---|--|
| <input type="checkbox"/> Intent to Recomplete (Form 2 also required) | <input type="checkbox"/> Request to Vent or Flare | <input type="checkbox"/> E&P Waste Mangement Plan |
| <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"/> Rule 502 variance requested. Must provide detailed info regarding request. | |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases | |

COMMENTS:

CASING AND CEMENTING CHANGES

| Casing Type | Size | Of | / | Hole | Size | Of | / | Casing | Wt/Ft | Csg/LinTop | Setting Depth | Sacks of Cement | Cement Bottom | Cement Top |
|------------------|------|----|---|------|------|----|---|--------|-------|------------|---------------|-----------------|---------------|------------|
| Conductor Casing | 26 | | | | 16 | 1 | | 4 | 42 | 0 | 90 | 189 | 90 | 0 |
| Surface String | 12 | 1 | | 4 | 9 | 5 | | 8 | 36 | 0 | 1400 | 800 | 1400 | 0 |
| First String | 8 | 3 | | 4 | 5 | 1 | | 2 | 20 | 0 | 11957 | 2080 | 11957 | 1200 |

H2S REPORTING

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:

Best Management Practices

No BMP/COA Type

Description

| | | |
|---|--------------------------------|---|
| 1 | Drilling/Completion Operations | Anti-Collision: SandRidge will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice will be given to all offset operators within 150 feet prior to drilling. |
|---|--------------------------------|---|

Total: 1 comment(s)

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: Kimberly Rodell

Title: Permit Agent Email: krodell@upstreampm.com Date: 1/5/2016

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

COGCC Approved: ANDREWS, DAVE Date: 1/7/2016

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

These Conditions of Approval supercede those shown on Form 2 #400958467

- 1) Operator shall comply with the most current revision of the Northwest Notification Policy.
- 2) Operator shall provide cement coverage from the production casing shoe (5+1/2" First String) to a minimum of 200' above the surface casing shoe to provide full isolation of the Coalmont Formation. Verify production casing cement coverage with a cement bond log. Changed First String cement top from a null value to 1200' (200' above proposed surface casing shoe depth of 1400'). Operator shall increase cement volume if necessary to accomplish this objective.
- 3) Operator Agreement, per operator agent email on 1/7/2015: "SandRidge will monitor the production casing and bradenhead pressure throughout the stimulation of Hebron 1-18HR. SandRidge will open the bradenhead of the offset well and plumb to a tank. There is potential of communication in the Niobrara downhole. If the pressure goes up and the surface casing can't hold or if there is a leak in the casing then the pressure will go to the tank and not the formation." COGCC Monitoring Requirements: The operator shall monitor the production casing pressure and the bradenhead pressure of offset well Hebron 2-07H (057-06499). The operator shall install pressure gauges on the Hebron 2-07H well at least 24 hours prior to the operator initiating a treatment on the proposed well. The operator shall monitor the gauges at least once during every 24-hour period until 24 hours after the treatment is completed and shall continue to do so until the pressure stabilizes with allowance for a ten percent daily fluctuation. The pressure gauges shall be capable of monitoring current pressure and also capable of recording the maximum pressure encountered in a 24 hour period. Such gauges shall be reset between each 24 hour period. The pressures shall be recorded and saved for a period of one year. Alternate electronic measurement may be used to record the prescribed pressures.

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|---|-------------------------|
| Permit | Permit task complete. | 1/6/2016 11:08:28 AM |
| Engineer | The attached anticollision report shows a separation of less than 150' for planned well Hebron 0780 02-18H (Form 2 currently In Progress #400958467). The form was submitted by Sandridge (same operator as this Form 4, no Stimulation Setback Consent required). | 1/6/2016 10:08:42 AM |
| Engineer | <p>Offset Well Evaluation: This evaluation amends comments presented on Form 2 #400958467 because of the change of horizontal lateral orientation requested on this Form 4. The new wellbore path is now within 1500' of two additional wells, as described below. The operator provided a new anti-collision report with this Sundry Notice for other planned and existing wells on this pad. However, an anti-collision report was not provided for the wells described below. Offset mitigation is required for Hebron #2-07H ST.</p> <p>Evaluated offset permitted (XX) well Marr #06-07H (057-06497) Form 2 Application for Permit to Drill #400594209. The design of this well meets standards; no offset mitigation required. Form 2 #400594209 references the other existing producing well on the same pad, as described below.</p> <p>EVALUATED OFFSET HORIZONTAL PRODUCING (PR) WELL HEBRON #2-07H ST (057-06499), TD AT 10800' AND COMPLETED IN THE NIOBRARA FORMATION. FIRST STRING CEMENT COVERAGE APPEARS TO BE POOR OR ABSENT ABOVE 6000' ON THE CEMENT BOND LOG. NIOBRARA TOP REPORTED AT 6205'. TOP NIOBRARA PRODUCTION PERF AT 6470'. UNCEMENTED INTERVALS OF THE COALMONT FORMATION ARE LIKELY BETWEEN THE PIERRE SHALE FORMATION TOP AND THE SURFACE CASING SHOE AT 950'. NOTIFIED OPERATOR THAT OFFSET WELL MITIGATION IS REQUIRED. ALTERNATE MITIGATION (PRESSURE MONITORING) WAS ACCEPTED PER COGCC'S INTERIM STATEWIDE HORIZONTAL OFFSET POLICY MITIGATION OPTION NO. 4. PRESSURE MONITORING REQUIREMENTS ARE SPECIFIED AS CONDITION OF APPROVAL #3.</p> | 1/6/2016 9:10:51 AM |
| Engineer | The Coalmont Formation is considered a potential freshwater resource in the North Park Basin (CGS Ground Water Atlas of Colorado, 2003). The proposed surface casing setting depth of 1400' will not cover the entire Coalmont Formation, based on the operator's drilling prognosis. Minimum cement isolation standards are specified in Condition of Approval #2. | 1/6/2016 9:10:07 AM |
| Engineer | Offset water well check: COGCC evaluated offset water wells within one mile of this proposed well's surface hole location. This information was used in addition to locally-available geophysical logs and hydrogeologic information to evaluate the adequacy of the operator's proposed surface casing setting depth. The deepest water well within one mile is 101 feet. | 1/6/2016 9:09:16 AM |
| Engineer | This form shows 11975' for the new First String setting depth, but the attached Drilling Plan and Directional Survey show 11957'. Contacted operator agent for clarification. Changed First String values on this form to 11957' per operator agent. | 1/6/2016 9:05:15 AM |

Total: 6 comment(s)

Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|------------------------|
| 400964497 | FORM 4 SUBMITTED |
| 400964564 | DIRECTIONAL DATA |
| 400964565 | OTHER |
| 400964567 | OTHER |
| 400964568 | DEVIATED DRILLING PLAN |
| 400964570 | WELL LOCATION PLAT |

Total Attach: 6 Files