

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

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Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
Document Number: <b>400964497</b>			
Date Received: <b>01/05/2016</b>			

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

Complete the Attachment  
Checklist

OP OGCC

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

Survey Plat		
Directional Survey		
Srfc 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.):

[Empty box for description of release potential and duration]

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:

[Empty box for 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.
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Total: 1 comment(s)

Operator Comments:

[Empty 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: 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

User Group	Comment	Comment Date
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

Att Doc Num	Name
400964497	FORM 4 SUBMITTED
400964564	DIRECTIONAL DATA
400964565	OTHER
400964567	OTHER
400964568	DEVIATED DRILLING PLAN
400964570	WELL LOCATION PLAT

Total Attach: 6 Files