

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

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
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DE	ET	OE	ES
Document Number: <b>402376445</b>			
Date Received: <b>04/21/2020</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: 10459 Contact Name Philip Antonioli  
 Name of Operator: EXTRACTION OIL & GAS INC Phone: (720) 354-4603  
 Address: 370 17TH STREET SUITE 5300 Fax: ( )  
 City: DENVER State: CO Zip: 80202 Email: PAntonioli@extractionog.com

Complete the Attachment  
Checklist

OP OGCC

API Number : 05- 013 06061 00 OGCC Facility ID Number: 206566  
 Well/Facility Name: ERTL Well/Facility Number: 2-18  
 Location QtrQtr: NWNW Section: 18 Township: 1N Range: 69W Meridian: 6  
 County: BOULDER Field Name: BOULDER VALLEY  
 Federal, Indian or State Lease Number: \_\_\_\_\_

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 \_\_\_\_\_ GPS Quality Value: \_\_\_\_\_ Type of GPS Quality Value: \_\_\_\_\_ Measurement Date: \_\_\_\_\_  
 Longitude \_\_\_\_\_ GPS Instrument Operator's Name \_\_\_\_\_

**LOCATION CHANGE (all measurements in Feet)**

Well will be: \_\_\_\_\_ (Vertical, Directional, Horizontal)

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

	FNL/FSL		FEL/FWL
660	FNL	860	FWL

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

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

Twp <u>1N</u>	Range <u>69W</u>	Meridian <u>6</u>
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New **Surface** Location **To** QtrQtr \_\_\_\_\_ Sec \_\_\_\_\_

Twp _____	Range _____	Meridian _____
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Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:

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

			**
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Current **Top of Productive Zone** Location **From** Sec \_\_\_\_\_

Twp _____	Range _____
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New **Top of Productive Zone** Location **To** Sec \_\_\_\_\_

Twp _____	Range _____
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Change of **Bottomhole** Footage **From** Exterior Section Lines:

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

			**
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Current **Bottomhole** Location Sec \_\_\_\_\_ Twp \_\_\_\_\_

Range _____	** attach deviated drilling plan
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New **Bottomhole** Location Sec \_\_\_\_\_ Twp \_\_\_\_\_

Range _____
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Is location in High Density Area? \_\_\_\_\_

Distance, in feet, to nearest building \_\_\_\_\_, public road: \_\_\_\_\_, above ground utility: \_\_\_\_\_, railroad: \_\_\_\_\_,

property line: \_\_\_\_\_, lease line: \_\_\_\_\_, well in same formation: \_\_\_\_\_

Ground Elevation \_\_\_\_\_ feet Surface owner consultation date \_\_\_\_\_



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 04/01/2020

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 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 checked="" type="checkbox"/> Other <u>Bradenhead Mitigation</u>	<input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases	

**COMMENTS:**

The 2020 annual bradenhead test dated 4/1/2020, had an initial pressure over 50psi. This test was taken while the 2019 bradenhead pressure mitigation is still in progress. Form 4 Document#: 402174902 requested a notice of intent to start work of 10/1/2019, Extraction would like to request an additional six consecutive months from the date of the 2020 test to finish out the blowdown mitigation strategy. For 2020, based on the bradenhead gas sample taken via the bradenhead, the max number of times the bradenhead can be purged from a max pressure (\*assuming 400ps) to 0psi was calculated to be 299. This blowdown process will be tracked and recorded to ensure the calculated limited is not exceeded during this process, and throughout the CDPHE timeframe. At the end of the six consecutive months, an additional bradenhead test will be conducted, and a Form 4 submitted with results of the blowdown and proposed further mitigation if necessary.

Ertl 2-18 falls into our monthly discussed Boulder challenge. That is, the blowdowns were not feasible last year and thus are being done for the first time this year. We'd like to start the blowdowns now.

**CASING AND CEMENTING CHANGES**

**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:

<b><u>Best Management Practices</u></b>		
<b><u>No</u></b>	<b><u>BMP/COA Type</u></b>	<b><u>Description</u></b>

**Operator Comments:**

Continued Bradenhead Pressure Mitigation

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

Signed: \_\_\_\_\_ Print Name: Philip Antonioli  
Title: Production Engineer Email: PAntonioli@extractionog.com Date: 4/21/2020

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

COGCC Approved: Jacobson, Eric Date: 7/16/2020

**CONDITIONS OF APPROVAL, IF ANY:****COA Type****Description**

	<p>1. Operator shall implement measures to control venting, to protect health and safety, and to ensure that vapors and odors from well operations do not constitute a nuisance or hazard to public welfare.</p> <p>2. Prior to starting bradenhead mitigation, if a sample has not been collected within the last twelve months collect bradenhead and production gas samples for laboratory analysis. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling. Copies of all final laboratory analytical results shall be provided to the COGCC within three months of collecting the samples.</p> <p>3. Operator shall implement measures to get an initial estimate of the gas flow rate and/or volume from the bradenhead. During the shut-in period record pressure data to adequately characterize the build-up. This mitigation plan may be used for six consecutive months from the date test reported on the Form 17. (04/01/2020)</p> <p>4. At the conclusion of the six months, conduct a new bradenhead test and submit the Form 17 within ten days of the test and submit a Form 4 Sundry that summarizes current well condition. The sundry should include details of the future plans and the flow rate information and pressure data.</p>
	Shut in bradenhead pressure shall not exceed 50 psig.

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	Bradenhead test date 04/01/2020 had 324 psig and flowed gas to the surface.	07/16/2020

Total: 1 comment(s)

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
402376445	SUNDRY NOTICE APPROVED-OTHER
402444534	FORM 4 SUBMITTED

Total Attach: 2 Files