

FORM  
5A

Rev  
06/12

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

400928050

Date Received:

COMPLETED INTERVAL REPORT

The completed interval Report, Form 5A, shall be submitted within thirty (30) days of completing a formation (successful or not), when a formation is temporarily abandoned or permanently abandoned, for a recompletion, reperforation or restimulation, or when a formation is commingled. Fill out a section for each formation. Attach as many pages as required to fully describe the work. List in order of completion.

1. OGCC Operator Number: 69175

2. Name of Operator: PDC ENERGY INC

3. Address: 1775 SHERMAN STREET - STE 3000

City: DENVER State: CO Zip: 80203

4. Contact Name: Ally Gale

Phone: (303) 831-3931

Fax: (303) 860-5838

Email: alexandria.gale@pdce.com

5. API Number 05-123-40466-00

7. Well Name: Rieder

8. Location: QtrQtr: SWSE Section: 18 Township: 4N Range: 67W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 18Q-321

## Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 10/09/2015 End Date: 10/10/2015 Date of First Production this formation: 10/22/2015  
Perforations Top: 7635 Bottom: 11482 No. Holes: Hole size:

Provide a brief summary of the formation treatment:

Open Hole: ☒

20 Stage Sliding Sleeve  
Total Fluid: 74,054 bbls  
Gel Fluid: 45,821 bbls  
Slickwater Fluid: 28,233 bbls  
Total Proppant: 4,091,540 lbs  
Silica Proppant: 4,091,540 lbs  
Method for determining flowback: Measuring flowback tank volumes

This formation is commingled with another formation: ☐ Yes ☒ No

Total fluid used in treatment (bbl): 74054

Max pressure during treatment (psi): 4740

Total gas used in treatment (mcf):

Fluid density at initial fracture (lbs/gal): 8.34

Type of gas used in treatment:

Min frac gradient (psi/ft): 0.89

Total acid used in treatment (bbl):

Number of staged intervals: 20

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 4201

Fresh water used in treatment (bbl): 74054

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 4091540

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

**Fracture stimulations must be reported on FracFocus.org**

### Test Information:

Date: 10/29/2015 Hours: 24 Bbl oil: 268 Mcf Gas: 392 Bbl H2O: 322  
Calculated 24 hour rate: Bbl oil: 268 Mcf Gas: 392 Bbl H2O: 322 GOR: 1462  
Test Method: Flowing Casing PSI: 1892 Tubing PSI: 1155 Choke Size: 16/64  
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1344 API Gravity Oil: 47  
Tubing Size: 2 + 3/8 Tubing Setting Depth: 7126 Tbg setting date: 10/22/2015 Packer Depth:

Reason for Non-Production:

Date formation Abandoned: Squeeze: ☐ Yes ☐ No If yes, number of sacks cmt

\*\* Bridge Plug Depth: \*\* Sacks cement on top: \*\* Wireline and Cement Job Summary must be attached.

Comment:

Swell packer set at 7635'.

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

Signed: Print Name: Ally Gale

Title: Regulatory Technician I Date: Email alexandria.gale@pdce.com

## Attachment Check List

Att Doc Num Name

401123605 WELLBORE DIAGRAM

Total Attach: 1 Files

### General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|----------------|---------------------|
|                   |                |                     |

Total: 0 comment(s)