

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:

401003625

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 05-123-41673-00

7. Well Name: Collins

8. Location: QtrQtr: SESE Section: 18 Township: 4N Range: 64W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 18Q-301

## Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 02/09/2016 End Date: 02/14/2016 Date of First Production this formation: 03/08/2016  
Perforations Top: 7572 Bottom: 11505 No. Holes: 960 Hole size: 42/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

20 Stage Plug and Perf, Perf'd from 7572-11371, 3 Sleeves from 11,412-11,505

Total Fluid: 74,325 bbls

Slickwater Fluid: 28,474 bbls

Gel Fluid: 45,327 bbls

15% HCl Acid: 524 bbls

Total Proppant: 3,995,500 lbs

Silica Proppant: 3,995,500 lbs

Method for determining flowback: measuring flowback tank volumes

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

Total fluid used in treatment (bbl): 74325

Max pressure during treatment (psi): 4494

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): 1.08

Total acid used in treatment (bbl): 524

Number of staged intervals: 20

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 2708

Fresh water used in treatment (bbl): 73801

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 3995500

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

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

### Test Information:

Date: 03/10/2016 Hours: 24 Bbl oil: 227 Mcf Gas: 892 Bbl H2O: 590  
Calculated 24 hour rate: Bbl oil: 227 Mcf Gas: 892 Bbl H2O: 590 GOR: 3929  
Test Method: Flowing Casing PSI: 2638 Tubing PSI: 1941 Choke Size: 16/64  
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1265 API Gravity Oil: 54  
Tubing Size: 2 + 3/8 Tubing Setting Depth: 7159 Tbg setting date: 03/04/2016 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:

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

Total Attach: 0 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)