

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:

400754394

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: Cassie Gonzalez

Phone: (303) 860-5800

Fax: (303) 831-3988

Email: Cassie.Gonzalez@pdce.com

5. API Number 05-123-37312-00

7. Well Name: SORIN NATURAL RESOURCES

8. Location: QtrQtr: NWNE Section: 2 Township: 4N Range: 66W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 2R-323

## Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 12/10/2014 End Date: 12/11/2014 Date of First Production this formation: 01/23/2015  
Perforations Top: 7608 Bottom: 11570 No. Holes: Hole size:

Provide a brief summary of the formation treatment:

Open Hole: ☒

20 Stage Sliding Sleeve, Swell Packer set at 7,608'

Total Fluid: 93,765 bbls

Gel Fluid: 73,550 bbls

Slickwater Fluid: 20,215 bbls

Total Proppant: 4,563,256 lbs

Silica Proppant: 4,563,256 lbs

Method for determining flowback: measuring flowback tank volumes.

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

Total fluid used in treatment (bbl): 93765

Max pressure during treatment (psi): 3986

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): 0.98

Total acid used in treatment (bbl):

Number of staged intervals: 20

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 2845

Fresh water used in treatment (bbl): 93765

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 4563256

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

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

### Test Information:

Date: 01/30/2015 Hours: 24 Bbl oil: 255 Mcf Gas: 1679 Bbl H2O: 139  
Calculated 24 hour rate: Bbl oil: 255 Mcf Gas: 1679 Bbl H2O: 139 GOR: 6584  
Test Method: Flowing Casing PSI: 2661 Tubing PSI: 2275 Choke Size: 18/64  
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1278 API Gravity Oil: 65  
Tubing Size: 2 + 3/8 Tubing Setting Depth: 7134 Tbg setting date: 01/05/2015 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:

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

Signed:

Print Name: Cassie Gonzalez

Title: Regulatory Technician

Date:

Email: Cassie.Gonzalez@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>
Permit	Returned to draft for AOC settlement.	09/15/2016

Total: 1 comment(s)