

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:

400499719

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:

Email: Cassie.Gonzalez@pdce.com

5. API Number 05-123-36964-00

7. Well Name: Waste Management

8. Location: QtrQtr: SESE Section: 2 Township: 2N Range: 64W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 2T-221

## Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 10/27/2013 End Date: 10/28/2013 Date of First Production this formation: 11/08/2013  
Perforations Top: 7260 Bottom: 11189 No. Holes: Hole size:

Provide a brief summary of the formation treatment:

Open Hole: ☒

16 Stage Sliding Sleeve, Swell Packer set at 7,260'

Total Fluid: 60,002

Gel Fluid: 47,888 bbls

Slickwater Fluid: 12,114 bbls

Total Proppant: 3,675,760 lbs

Silica Proppant: 3,675,760 lbs

Method for determining flowback: measuring flowback tank volumes.

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

Total fluid used in treatment (bbl): 60002

Max pressure during treatment (psi): 3858

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): 1.00

Total acid used in treatment (bbl):

Number of staged intervals: 16

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 861

Fresh water used in treatment (bbl): 60002

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 3675760

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

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

### Test Information:

Date: 11/25/2013 Hours: 24 Bbl oil: 269 Mcf Gas: 259 Bbl H2O: 60  
Calculated 24 hour rate: Bbl oil: 269 Mcf Gas: 259 Bbl H2O: 60 GOR: 963  
Test Method: Flowing Casing PSI: 1110 Tubing PSI: 745 Choke Size: 16/64  
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1337 API Gravity Oil: 44  
Tubing Size: 2 + 3/8 Tubing Setting Depth: 6782 Tbg setting date: 11/05/2013 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)