

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



DE	ET	OE	ES
----	----	----	----

Document Number:

401873628

Date Received:

12/17/2018

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 Ota

Phone: (303) 860-5800

Fax: (303) 831-3988

Email: Alexnadria.Ota@pdce.com

5. API Number 05-123-46695-00

7. Well Name: J Clark

8. Location: QtrQtr: NWNE Section: 14 Township: 5N Range: 65W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 13N

Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 10/14/2018 End Date: 10/20/2018 Date of First Production this formation: 11/28/2018
Perforations Top: 7536 Bottom: 12068 No. Holes: 906 Hole size: 42/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

26 Stage Plug and Perf

Total Fluid: 90,339 bbls

Gel Fluid: 70,361 bbls

Slickwater Fluid: 19,190 bbls

15% HCl Acid: 788 bbls

Total Proppant: 4,506,900 lbs

Silica Proppant: 4,506,900 lbs

Method for determining flowback: measuring flowback tank volumes.

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

Total fluid used in treatment (bbl): 90339

Max pressure during treatment (psi): 4579

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): 788

Number of staged intervals: 26

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 3254

Fresh water used in treatment (bbl): 89551

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 4506900

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 12/09/2018 Hours: 24 Bbl oil: 279 Mcf Gas: 859 Bbl H2O: 156
Calculated 24 hour rate: Bbl oil: 279 Mcf Gas: 859 Bbl H2O: 156 GOR: 3079
Test Method: Flowing Casing PSI: 2648 Tubing PSI: 1813 Choke Size: 16/64
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1251 API Gravity Oil: 47
Tubing Size: 2 + 3/8 Tubing Setting Depth: 6901 Tbg setting date: 11/21/2018 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:

Actual Top of Productive Zone Footage: 259' FSL & 1,884' FEL Sec: 11 Twp: 5N Rng: 65W

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: 12/17/2018 Email: Cassie.Gonzalez@pdce.com

Attachment Check List

Att Doc Num Name

401873628 FORM 5A SUBMITTED

Total Attach: 1 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Permitting review complete.	11/01/2019

Total: 1 comment(s)