

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:

402156128

Date Received:

08/26/2019

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 05-123-45258-00

7. Well Name: Thistle Down

8. Location: QtrQtr: NESW Section: 31 Township: 5N Range: 64W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 31H-302

Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 07/06/2019 End Date: 07/14/2019 Date of First Production this formation: 08/13/2019
Perforations Top: 7289 Bottom: 12481 No. Holes: 1050 Hole size: 42/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

30 Stage Plug and Perf

Total Fluid: 99,998 bbls

Gel Fluid: 55,826 bbls

Slickwater Fluid: 43,487 bbls

15% HCl Acid: 685 bbls

Total Proppant:

Silica Proppant:

Method for determining flowback: measuring flowback tank volumes.

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

Total fluid used in treatment (bbl): 99998

Max pressure during treatment (psi): 4354

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): 0.97

Total acid used in treatment (bbl): 685

Number of staged intervals: 30

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 5789

Fresh water used in treatment (bbl): 99313

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 5882090

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 08/14/2019 Hours: 24 Bbl oil: 336 Mcf Gas: 1349 Bbl H2O: 193
Calculated 24 hour rate: Bbl oil: 336 Mcf Gas: 1349 Bbl H2O: 193 GOR: 4015
Test Method: Flowing Casing PSI: 2724 Tubing PSI: 2012 Choke Size: 16/64
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1302 API Gravity Oil: 53
Tubing Size: 2 + 3/8 Tubing Setting Depth: 7214 Tbg setting date: 08/07/2019 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: 1,233' FSL & 462' FWL Sec: 31 Twp: 5N Rng: 64W

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: 8/26/2019 Email: Cassie.Gonzalez@pdce.com

Attachment Check List

Att Doc Num Name

402156128 FORM 5A SUBMITTED

Total Attach: 1 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Passed Completion review.	09/12/2019

Total: 1 comment(s)