

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:

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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 05-123-45257-00

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: 31G-332

Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION
Treatment Date: 06/27/2019 End Date: 07/05/2019 Date of First Production this formation: 08/03/2019
Perforations Top: 7371 Bottom: 12979 No. Holes: 1116 Hole size: 42/100
Provide a brief summary of the formation treatment: Open Hole: ☐

32 Stage Plug and Perf
Total Fluid: 107,818 bbls
Gel Fluid: 68,006 bbls
Slickwater Fluid: 39,132 bbls
15% HCl Acid: 680 bbls
Total Proppant: 6,211,960 lbs
Silica Proppant: 6,211,960 lbs
Method for determining flowback: measuring flowback tank volumes.

This formation is commingled with another formation: ☐ Yes ☒ No
Total fluid used in treatment (bbl): 107818 Max pressure during treatment (psi): 4930
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): 680 Number of staged intervals: 32
Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 5685
Fresh water used in treatment (bbl): 107138 Disposition method for flowback: DISPOSAL
Total proppant used (lbs): 6211960 Rule 805 green completion techniques were utilized: ☒
Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 08/07/2019 Hours: 24 Bbl oil: 284 Mcf Gas: 1154 Bbl H2O: 273
Calculated 24 hour rate: Bbl oil: 284 Mcf Gas: 1154 Bbl H2O: 273 GOR: 4063
Test Method: Flowing Casing PSI: 2737 Tubing PSI: 1950 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: 7268 Tbg setting date: 07/28/2019 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: 2,160' FSL & 516' FWL Sec: 31 Twp: 5N Twp: 64W
TPZ calculated by Ensign due to uneven section lines.

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: alexandria.ota@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 per operator request - 8/26/19	08/26/2019

Total: 1 comment(s)