

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:

402371896

Date Received:

04/20/2020

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 05-123-46838-00

7. Well Name: Lory

8. Location: QtrQtr: SWSE Section: 33 Township: 4N Range: 65W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 9N

Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 01/24/2020 End Date: 02/14/2020 Date of First Production this formation: 03/31/2020
Perforations Top: 7312 Bottom: 17227 No. Holes: 1320 Hole size: 42/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

56 Stage Plug and Perf
Total Fluid: 103,709 bbls
Slickwater Fluid: 102,403 bbls
15% HCl Acid: 1,306 bbls
Total Proppant: 10,990,189 lbs
Silica Proppant: 10,990,189 lbs
Method for determining flowback: measuring flowback tank volumes.

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

Total fluid used in treatment (bbl): 103709

Max pressure during treatment (psi): 4512

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): 0.94

Total acid used in treatment (bbl): 1306

Number of staged intervals: 56

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 9207

Fresh water used in treatment (bbl): 102403

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 10990189

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 04/07/2020 Hours: 24 Bbl oil: 263 Mcf Gas: 2927 Bbl H2O: 93
Calculated 24 hour rate: Bbl oil: 263 Mcf Gas: 2927 Bbl H2O: 93 GOR: 11129
Test Method: Flowing Casing PSI: 2877 Tubing PSI: 2606 Choke Size: 16/64
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1340 API Gravity Oil: 49
Tubing Size: 2 + 3/8 Tubing Setting Depth: 7166 Tbg setting date: 03/21/2020 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: 546' FSL & 1,066' FEL Sec: 33 Twp: 4N 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 Analyst Date: 4/20/2020 Email: Cassie.Gonzalez@pdce.com

Attachment Check List

Att Doc Num **Name**

402371896 FORM 5A SUBMITTED

Total Attach: 1 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Permitting review complete.	05/07/2020

Total: 1 comment(s)