

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:
401825484

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: Ally Ota
Phone: (303) 860-5800
Fax: (303) 831-3988
Email: Alexandria.Ota@pdce.com

5. API Number 05-123-43655-00
6. County: WELD
7. Well Name: Ward
Well Number: M-20-19HN
8. Location: QtrQtr: SESE Section: 20 Township: 6N Range: 66W Meridian: 6
9. Field Name: WATTENBERG Field Code: 90750

Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 08/27/2018 End Date: 09/22/2018 Date of First Production this formation: 10/29/2018
Perforations Top: 7843 Bottom: 17937 No. Holes: 2016 Hole size: 42/100

Provide a brief summary of the formation treatment: Open Hole:

56 Stage Plug and Perf
Total Fluid: 240,491 bbls
Gel Fluid: 173,081 bbls
Slickwater Fluid: 65,541 bbls
15% HCl Acid: 1,869 bbls
Total Proppant: 10,197,380 lbs
Silica Proppant: 10,197,380 lbs
Method for determining flowback: measuring flowback tank volumes.

This formation is commingled with another formation: Yes No

Total fluid used in treatment (bbl): 240491 Max pressure during treatment (psi): 4973
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): 1.01
Total acid used in treatment (bbl): 1869 Number of staged intervals: 56
Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 7209
Fresh water used in treatment (bbl): 238622 Disposition method for flowback: DISPOSAL
Total proppant used (lbs): 10197380 Rule 805 green completion techniques were utilized:
Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 11/03/2018 Hours: 24 Bbl oil: 353 Mcf Gas: 444 Bbl H2O: 200
Calculated 24 hour rate: Bbl oil: 353 Mcf Gas: 444 Bbl H2O: 200 GOR: 1258
Test Method: Flowing Casing PSI: 1845 Tubing PSI: 1522 Choke Size: 16/64
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1240 API Gravity Oil: 50
Tubing Size: 2 + 3/8 Tubing Setting Depth: 7373 Tbg setting date: 10/28/2018 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: 2,462' FSL & 607' FEL Sec: 20 Twp: 6N Rng: 66W

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

User Group

Comment

Comment Date

Stamp Upon
Approval

Total: 0 comment(s)