FORM 5A
Rev 06/12

# State of Colorado
# Oil and Gas Conservation Commission

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Document Number: 401346451

Date Received: 12/04/2017

## 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: Kelsi Welch
Phone: (303) 831-3974
Fax:
Email: kelsi.welch@pdce.com

5. API Number 05-123-21788-00
6. County: WELD
7. Well Name: BAUER
Well Number: 21-4
8. Location: QtrQtr: NENW Section: 4 Township: 5N Range: 64W Meridian: 6
9. Field Name: WATTENBERG Field Code: 90750

## Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type:

Treatment Date: End Date: Date of First Production this formation: 02/21/2004

Perforations Top: 6838 Bottom: 6850 No. Holes: 48 Hole size: 42/100

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

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

Total fluid used in treatment (bbl): Max pressure during treatment (psi):

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal):

Type of gas used in treatment: Min frac gradient (psi/ft):

Total acid used in treatment (bbl): Number of staged intervals:

Recycled water used in treatment (bbl): Flowback volume recovered (bbl):

Fresh water used in treatment (bbl): Disposition method for flowback:

Total proppant used (lbs): Rule 805 green completion techniques were utilized: ☐

Reason why green completion not utilized:

**Fracture stimulations must be reported on FracFocus.org**

### Test Information:

Date: Hours: Bbl oil: Mcf Gas: Bbl H2O:

Calculated 24 hour rate: Bbl oil: Mcf Gas: Bbl H2O: GOR:

Test Method: Casing PSI: Tubing PSI: Choke Size:

Gas Disposition: Gas Type: Btu Gas: API Gravity Oil:

Tubing Size: Tubing Setting Depth: Tbg setting date: 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.

FORMATION: NIOBRARA-CODELL Status: PRODUCING Treatment Type:

Treatment Date: End Date: Date of First Production this formation: 10/29/2004

Perforations Top: 6546 Bottom: 6850 No. Holes: 212 Hole size:

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

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

Total fluid used in treatment (bbl): Max pressure during treatment (psi):

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal):

Type of gas used in treatment: Min frac gradient (psi/ft):

Total acid used in treatment (bbl): Number of staged intervals:

Recycled water used in treatment (bbl): Flowback volume recovered (bbl):

Fresh water used in treatment (bbl): Disposition method for flowback:

Total proppant used (lbs): Rule 805 green completion techniques were utilized: ☐

Reason why green completion not utilized:

**Fracture stimulations must be reported on FracFocus.org**

**Test Information:**

Date: Hours: Bbl oil: Mcf Gas: Bbl H2O:

Calculated 24 hour rate: Bbl oil: Mcf Gas: Bbl H2O: GOR:

Test Method: Casing PSI: Tubing PSI: Choke Size:

Gas Disposition: Gas Type: Btu Gas: API Gravity Oil:

Tubing Size: 2 + 3/8 Tubing Setting Depth: 6525 Tbg setting date: 10/29/2004 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.

FORMATION: NIOBRARA Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 10/14/2004 End Date: 10/18/2004 Date of First Production this formation: 10/29/2004

Perforations Top: 6546 Bottom: 6755 No. Holes: 164 Hole size: 42/100

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

The Niobrara formation was recompleted from 6744'-6755', 6656'-6676' and 6546'-6556, (4 spf, 60 degree phasing with 3 1/8" slick gun) in 2004 by Merit prior to PDC's aquisition of the well in 2012. Limited information on the job is available.

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

Total fluid used in treatment (bbl): 4256 Max pressure during treatment (psi): 3604

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal):

Type of gas used in treatment: Min frac gradient (psi/ft):

Total acid used in treatment (bbl): 24 Number of staged intervals: 10

Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 972

Fresh water used in treatment (bbl): Disposition method for flowback:

Total proppant used (lbs): 265047 Rule 805 green completion techniques were utilized: ☐

Reason why green completion not utilized:

**Fracture stimulations must be reported on FracFocus.org**

**Test Information:**

Date: Hours: Bbl oil: Mcf Gas: Bbl H2O:

Calculated 24 hour rate: Bbl oil: Mcf Gas: Bbl H2O: GOR:

Test Method: Casing PSI: Tubing PSI: Choke Size:

Gas Disposition: Gas Type: Btu Gas: API Gravity Oil:

Tubing Size: Tubing Setting Depth: Tbg setting date: 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:

This submission is to report the Niobrara recompletion done by Merit in 2004 and the commingling of the Niobrara and Codell formations.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: Print Name: Kelsi Welch

Title: Production Tech Date: 12/4/2017 Email: kelsi.welch@pdce.com

## Attachment Check List

| Att Doc Num | Name |
|---|---|

Total Attach: 0 Files

## General Comments

| User Group | Comment | Comment Date |
|---|---|---|
| Permit | Pass. | 12/14/2017 |

Total: 1 comment(s)