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: 400836936

Date Received: 02/15/2017

## 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: Ally Gale
Phone: (303) 831-3931
Fax: (303) 860-5838
Email: alexandria.gale@pdce.com

5. API Number 05-123-25165-00
6. County: WELD
7. Well Name: Wiedeman
Well Number: 22-21U
8. Location: QtrQtr: SWSE Section: 21 Township: 5N Range: 67W Meridian: 6
9. Field Name: WATTENBERG Field Code: 90750

## Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 11/08/2012 End Date: 11/12/2012 Date of First Production this formation:

Perforations Top: 7186 Bottom: 7194 No. Holes: 24 Hole size: 41/100

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

Total Fluid: 620 bbls
Gel Fluid: 144 bbls
Slickwater Fluid: 476 bbls
Total Silica Proppant: 225150 lbs

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

Total fluid used in treatment (bbl): 620 Max pressure during treatment (psi): 3027

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal): 8.23

Type of gas used in treatment: Min frac gradient (psi/ft): 0.86

Total acid used in treatment (bbl): Number of staged intervals: 1

Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 476

Fresh water used in treatment (bbl): 620 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 225150 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: J SAND Status: ABANDONED WELLBORE/COMPLETION Treatment Type:

Treatment Date: End Date: Date of First Production this formation:

Perforations Top: 7654 Bottom: 7668 No. Holes: 42 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: Tubing Setting Depth: Tbg setting date: Packer Depth:

Reason for Non-Production: RE-complete Codell/ Niobrara

Date formation Abandoned: 11/06/2012 Squeeze: ☐ Yes ☒ No If yes, number of sacks cmt

** Bridge Plug Depth: 7600 ** Sacks cement on top: 2 ** Wireline and Cement Job Summary must be attached.

FORMATION: NIOBRARA-CODELL Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 11/08/2012 End Date: 11/12/2012 Date of First Production this formation: 11/27/2012

Perforations Top: 6876 Bottom: 7194 No. Holes: 52 Hole size: 42/100

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

Codell perf'd with 0.41" holes

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: 12/10/2012 Hours: 24 Bbl oil: 121 Mcf Gas: 95 Bbl H2O: 6

Calculated 24 hour rate: Bbl oil: 121 Mcf Gas: 95 Bbl H2O: 6 GOR: 7851

Test Method: Flowing Casing PSI: 1600 Tubing PSI: 0 Choke Size: 16/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1235 API Gravity Oil: 49

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7168 Tbg setting date: 01/17/2012 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: 11/12/2012 End Date: 11/12/2012 Date of First Production this formation:

Perforations Top: 6876 Bottom: 7076 No. Holes: 28 Hole size: 42/100

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

Total Fluid: 1395 bbls
Slickwater Fluid: 1249 bbls
Gel Fluid: 146 bbls
Total Silica Proppant: 250,730

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

Total fluid used in treatment (bbl): 1395 Max pressure during treatment (psi): 4975

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal): 8.36

Type of gas used in treatment: Min frac gradient (psi/ft): 0.87

Total acid used in treatment (bbl): Number of staged intervals: 1

Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 562

Fresh water used in treatment (bbl): 1395 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 250730 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 form is being submitted to report a Codell/Niobrara Recomplete and J-Sand abandonment that was previously unreported.

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

Signed: Print Name: Ally Gale

Title: Regulatory Tech Date: 2/15/2017 Email: alexandria.gale@pdce.com

## Attachment Check List

| Att Doc Num | Name |
|---|---|
| 400836936 | FORM 5A SUBMITTED |
| 401219155 | OPERATIONS SUMMARY |

Total Attach: 2 Files

## General Comments

| User Group | Comment | Comment Date |
|---|---|---|
| Permit | Provided ops summary. Pass. | 02/27/2017 |
| Permit | Missing cement/wireline tickets. Wait on operator. | 02/21/2017 |
| Permit | Returned to draft for AOC. | 11/28/2016 |

Total: 3 comment(s)