

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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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

4. Contact Name: Jenifer Hakkarinen

2. Name of Operator: PDC ENERGY INC

Phone: (303) 8605800

3. Address: 1775 SHERMAN STREET - STE 3000

Fax: (303) 8605838

City: DENVER State: CO Zip: 80203

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: Field Code:

Completed Interval

FORMATION: <u>CODELL</u>		Status: <u>COMMINGLED</u>		Treatment Type: <u>FRACTURE STIMULATION</u>	
Treatment Date: <u>11/12/2012</u>		End Date: <u>11/12/2012</u>		Date of First Production this formation: _____	
Perforations	Top: <u>7186</u>	Bottom: <u>7194</u>	No. Holes: <u>24</u>	Hole size: <u>16/64</u>	

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

(217,120 lbs Preferred Rock 20/40) (8,030 lbs SBXL 20/40). RD HES. MTP = 3027 psi, ATP = 2852 psi, AIR = 18.5 bpm. Pressure response was slightly positive for entire treatment.

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

Total fluid used in treatment (bbl): <u>2674</u>	Max pressure during treatment (psi): <u>3027</u>
Total gas used in treatment (mcf): _____	Fluid density at initial fracture (lbs/gal): <u>8.36</u>
Type of gas used in treatment: _____	Min frac gradient (psi/ft): <u>0.64</u>
Total acid used in treatment (bbl): <u>119</u>	Number of staged intervals: <u>1</u>
Recycled water used in treatment (bbl): _____	Flowback volume recovered (bbl): _____
Fresh water used in treatment (bbl): <u>2555</u>	Disposition method for flowback: <u>DISPOSAL</u>
Total proppant used (lbs): <u>225150</u>	Rule 805 green completion techniques were utilized: <input checked="" type="checkbox"/>

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: <u>2 + 3/8</u>	Tubing Setting Depth: <u>7186</u>	Tbg setting date: <u>01/17/2013</u>	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: 01/17/2013	
Perforations	Top: 6876	Bottom: 7194	No. Holes: 54	Hole size: _____	
Provide a brief summary of the formation treatment:			Open Hole: <input type="checkbox"/>		
This formation is commingled with another formation:			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: DISPOSAL		
Total proppant used (lbs): _____			Rule 805 green completion techniques were utilized: <input checked="" type="checkbox"/>		
Reason why green completion not utilized: _____					

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

**Test Information:**

Date: 01/26/2012	Hours: 24	Bbl oil: 25	Mcf Gas: 56	Bbl H2O: 3
Calculated 24 hour rate:	Bbl oil: 25	Mcf Gas: 56	Bbl H2O: 3	GOR: 2240
Test Method: Flowing	Casing PSI: 1301	Tubing PSI: 673	Choke Size: 16/64	
Gas Disposition: SOLD	Gas Type: WET	Btu Gas: 1215	API Gravity Oil: 52	
Tubing Size: _____	Tubing Setting Depth: _____	Tbg setting date: _____	Packer Depth: _____	
Reason for Non-Production: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>				
Date formation Abandoned: _____	Squeeze: <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, number of sacks cmt _____		

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

FORMATION: NIOBARRA Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

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

Perforations Top: 6876 Bottom: 6994 No. Holes: 28 Hole size: 27/64

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

Niobrara "A" Bench @ 6,876'-6,880' (2 SPF) Niobrara "B" Bench @ 6,990' - 6,994' (3 SPF) Niobrara "C" Bench @ 7,072'-7,076' (2 SPF) (237,900 lbs 20/40 Preferred Rock) (12,830 20/40 SB Excel. RD HES. MTP = 4,975 psi, ATP = 4,291 psi, AIR = 49.6 bpm. Pressure response was flat for entire treatment. "

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

Total fluid used in treatment (bbl): 3726 Max pressure during treatment (psi): 4975

Total gas used in treatment (mcf): \_\_\_\_\_ Fluid density at initial fracture (lbs/gal): 8.63

Type of gas used in treatment: \_\_\_\_\_ Min frac gradient (psi/ft): 0.93

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

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

Fresh water used in treatment (bbl): 3726 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: 2 + 3/8 Tubing Setting Depth: 7186 Tbg setting date: 01/17/2013 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:

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

Signed: \_\_\_\_\_ Print Name: Jenifer Hakkarinen

Title: Regulatory Tech Date: \_\_\_\_\_ Email: Jenifer.Hakkarinen@pdce.com

### Attachment Check List

Att Doc Num	Name

Total Attach: 0 Files

### General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)