

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:

400338805

Date Received:

10/24/2012

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: Jenifer Hakkarinen  
Phone: (303) 8605800  
Fax: (303) 8605838

5. API Number 05-123-22771-00  
6. County: WELD  
7. Well Name: BAY FAMILY TRUST  
Well Number: 32-1  
8. Location: QtrQtr: SWNE Section: 1 Township: 6N Range: 65W Meridian: 6  
9. Field Name: WATTENBERG Field Code: 90750

Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 05/11/2012 End Date: 05/11/2012 Date of First Production this formation: 05/29/2012

Perforations Top: 7072 Bottom: 7080 No. Holes: 24 Hole size: 13/32

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

219700 lbs Preferred Rock 20/40 8000 lbs 20/40 SB Excel. MTP = 7786 psi, ATP = 6462 psi, AIR = 22 bpm. Pressure response was slightly positive for entire treatment.

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

Total fluid used in treatment (bbl): 2781 Max pressure during treatment (psi): 7786

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal): 7.93

Type of gas used in treatment: Min frac gradient (psi/ft): 0.64

Total acid used in treatment (bbl): 119 Number of staged intervals: 1

Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 0

Fresh water used in treatment (bbl): 2662 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 227700 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 + 7/8 Tubing Setting Depth: 6703 Tbg setting date: 05/10/2012 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-CODELL Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: \_\_\_\_\_ End Date: \_\_\_\_\_ Date of First Production this formation: 05/24/2012

Perforations Top: 6792 Bottom: 7080 No. Holes: 58 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): 0

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](http://FracFocus.org)**

**Test Information:**

Date: 08/16/2012 Hours: 24 Bbl oil: 12 Mcf Gas: 64 Bbl H2O: 1

Calculated 24 hour rate: Bbl oil: 12 Mcf Gas: 64 Bbl H2O: 1 GOR: 5333

Test Method: Flowing Casing PSI: 1000 Tubing PSI: 600 Choke Size: 16/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1242 API Gravity Oil: 49

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: NIOBARARA Status: COMMINGLED Treatment Type: FRACTURE STIMULATION  
Treatment Date: 05/14/2012 End Date: 05/15/2012 Date of First Production this formation: 05/24/2012  
Perforations Top: 6792 Bottom: 6913 No. Holes: 34 Hole size: 27/64

Provide a brief summary of the formation treatment:

Open Hole: ☐

perforated Niobrara B @ 6905'-6913', 3 spf, (30 new holes) 120 degree phasing, 21 gram charges, .41" entry holes w/37.97" penetration, all shots fired pulled up perforated Niobrara A @ 6792-6794', 2 spf (4 new holes) (247080 lbs 20/40 High Crush) (12000 20/40 SB Excel. RD HES. MTP = 5221 psi, ATP = 4876 psi, AIR = 55.7 bpm. Pressure response was negative for entire treatment. Flush well in 2 ppg due to lift auger failure on gel unit.

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

Total fluid used in treatment (bbl): 3972

Max pressure during treatment (psi): 5221

Total gas used in treatment (mcf): \_\_\_\_\_

Fluid density at initial fracture (lbs/gal): 6.52

Type of gas used in treatment: \_\_\_\_\_

Min frac gradient (psi/ft): 0.94

Total acid used in treatment (bbl): 24

Number of staged intervals: 1

Recycled water used in treatment (bbl): \_\_\_\_\_

Flowback volume recovered (bbl): 0

Fresh water used in treatment (bbl): 3948

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 259080

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 + 7/8 Tubing Setting Depth: 6703 Tbg setting date: 05/10/2012 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.

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 Analyst Date: 10/24/2012 Email: Jenifer.Hakkarinen@pdce.com

#### Attachment Check List

Att Doc Num	Name
400338805	FORM 5A SUBMITTED

Total Attach: 1 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Operator reports that data have been submitted to Frac Focus.	11/27/2012 3:41:11 PM
Permit	Frac summaries added.	11/19/2012 10:00:09 AM
Permit	On hold for frac summaries and reporting to Frac Focus.	11/15/2012 9:38:15 AM

Total: 3 comment(s)