

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

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

Perforations Top: 6934 Bottom: 7235 No. Holes: 52 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: DISPOSAL

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: 11/29/2012 Hours: 24 Bbl oil: 22 Mcf Gas: 66 Bbl H2O: 8

Calculated 24 hour rate: Bbl oil: 22 Mcf Gas: 66 Bbl H2O: 8 GOR: 300

Test Method: Flowing Casing PSI: 1145 Tubing PSI: 750 Choke Size: 16/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1382 API Gravity Oil: 47

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7198 Tbg setting date: 11/08/2012 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: NIORARA Status: COMMINGLED Treatment Type: FRACTURE STIMULATION
Treatment Date: 10/23/2012 End Date: 10/23/2012 Date of First Production this formation: 11/08/2012
Perforations Top: 6934 Bottom: 7046 No. Holes: 28 Hole size: 27/64
Provide a brief summary of the formation treatment: _____ Open Hole: ☐

Niobrara "'B"' Bench @ 7038'-7046' (3 SPF) Niobrara "'A"' Bench @ 6934' - 6936' (28 New holes)
238,000 lbs 20/40 Preferred Rock) (12,600 20/40 SB Excel.. Pressure response was negative for entire treatment. "

This formation is commingled with another formation: ☒ Yes ☐ No
Total fluid used in treatment (bbl): 3738 Max pressure during treatment (psi): 5017
Total gas used in treatment (mcf): _____ Fluid density at initial fracture (lbs/gal): 8.15
Type of gas used in treatment: _____ Min frac gradient (psi/ft): 0.94
Total acid used in treatment (bbl): 118 Number of staged intervals: 1
Recycled water used in treatment (bbl): _____ Flowback volume recovered (bbl): _____
Fresh water used in treatment (bbl): 3620 Disposition method for flowback: DISPOSAL
Total proppant used (lbs): 250600 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: _____

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: 2/7/2013 Email Jenifer.Hakkarinen@pdce.com
:

Attachment Check List

Att Doc Num **Name**

400378860 FORM 5A SUBMITTED

Total Attach: 1 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Cement ticket attached to form 5 as per opr. Form completed	4/29/2013 3:23:21 PM
Permit	Form 5 has incorrect cement ticket. Opr notified and form 5 and this one on hold.	3/15/2013 12:14:41 PM

Total: 2 comment(s)