

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 08/26/2012 End Date: 08/26/2012 Date of First Production this formation: 08/28/2012
Perforations Top: 7382 Bottom: 7394 No. Holes: 48 Hole size: 0.4

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

PUMPED 243664# OTTAWA SAND DOWNHOLE in 128975gals of 15% HCL/Vistar/GELLED/SLICK/RECYCLED/FRESH WATER
NO OPEN HOLE LOGS WERE RUN
CODELL IS PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUG

This formation is commingled with another formation: Yes No

Total fluid used in treatment (bbl): 3071 Max pressure during treatment (psi): 4959

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.34

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

Total acid used in treatment (bbl): 12 Number of staged intervals: 8

Recycled water used in treatment (bbl): 252 Flowback volume recovered (bbl): 751

Fresh water used in treatment (bbl): 2807 Disposition method for flowback: RECYCLE

Total proppant used (lbs): 243664 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: 08/28/2012

Perforations Top: 7152 Bottom: 7394 No. Holes: 96 Hole size: 0.4

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

NO OPEN HOLE LOGS WERE RUN
CODELL IS PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUG

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: 09/04/2012 Hours: 24 Bbl oil: 3 Mcf Gas: 19 Bbl H2O: 0

Calculated 24 hour rate: Bbl oil: 3 Mcf Gas: 19 Bbl H2O: 0 GOR: 6333

Test Method: FLOWING Casing PSI: 250 Tubing PSI: _____ Choke Size: 12/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1200 API Gravity Oil: 38

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 Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 08/26/2012 End Date: 08/26/2012 Date of First Production this formation: 08/28/2012
Perforations Top: 7152 Bottom: 7253 No. Holes: 48 Hole size: 0.71

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

PUMPED 245121# OTTAWA SAND DOWNHOLE in 154184gals of Vistar/GELLED/SLICK/RECYCLED/FRESH WATER
NO OPEN HOLE LOGS WERE RUN
CODELL IS PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUG

This formation is commingled with another formation: Yes No

Total fluid used in treatment (bbl): 3671 Max pressure during treatment (psi): 5781
Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.34
Type of gas used in treatment: Min frac gradient (psi/ft): 0.90
Total acid used in treatment (bbl): 0 Number of staged intervals: 7
Recycled water used in treatment (bbl): 264 Flowback volume recovered (bbl): 373
Fresh water used in treatment (bbl): 3407 Disposition method for flowback: RECYCLE
Total proppant used (lbs): 245121 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:
NO OPEN HOLE LOGS WERE RUN
CODELL IS PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUG

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.
Signed: _____ Print Name: JEAN MUSE-REYNOLDS
Title: REGULATORY COMPLIANCE Date: 12/27/2012 Email: jmuse@nobleenergyinc.com

Attachment Check List

Att Doc Num	Name
400351958	FORM 5A SUBMITTED

Total Attach: 1 Files

General Comments

User Group	Comment	Comment Date
Permit	Niobrara top corrected on form 5. Flowback volumes received and split 1/3 Codell to 2/3 Niobrara prorated based on fluid input.	2/8/2013 7:55:50 AM
Permit	On hold. Niobrara top is incorrect on the form 5. Need flowback volumes in frac data.	2/7/2013 11:18:22 AM

Total: 2 comment(s)