



FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 07/11/2012 End Date: 07/11/2012 Date of First Production this formation: 11/02/2012  
Perforations Top: 6832 Bottom: 6844 No. Holes: 48 Hole size: 0.4

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

PUMPED 240404# OTTAWA SAND DOWNHOLE in 122892gals of 15% HCL/Vistar/GELLED/SLICK/RECYCLED/FRESH WATER  
CODELL IS PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUG  
FLOWBACK VOLUMES REPORTED ON NIOBRARA PANEL

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 2926 Max pressure during treatment (psi): 4141

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

Type of gas used in treatment: \_\_\_\_\_ Min frac gradient (psi/ft): 0.92

Total acid used in treatment (bbl): 12 Number of staged intervals: 7

Recycled water used in treatment (bbl): 247 Flowback volume recovered (bbl): \_\_\_\_\_

Fresh water used in treatment (bbl): 2667 Disposition method for flowback: RECYCLE

Total proppant used (lbs): 240404 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: 11/02/2012

Perforations Top: 6622 Bottom: 6844 No. Holes: 96 Hole size: 0.4

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

CODELL IS PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUG  
FLOWBACK VOLUMES REPORTED ON NIOBRARA PANEL

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: 11/06/2012 Hours: 9 Bbl oil: 24 Mcf Gas: 55 Bbl H2O: 0

Calculated 24 hour rate: Bbl oil: 24 Mcf Gas: 55 Bbl H2O: 0 GOR: 2292

Test Method: FLOWING Casing PSI: 2000 Tubing PSI: 0 Choke Size: 10/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1248 API Gravity Oil: 54

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: 07/06/2012 End Date: 07/11/2012 Date of First Production this formation: 11/02/2012  
Perforations Top: 6622 Bottom: 6716 No. Holes: 48 Hole size: 0.73

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

PUMPED 253398# OTTAWA SAND DOWNHOLE in 168630gals of Vistar/GELLED/SLICK/RECYCLED/FRESH WATER  
CODELL IS PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUG  
FLOWBACK VOLUMES REPORTED ON NIOBRARA PANEL

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 4015 Max pressure during treatment (psi): 4730  
Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal): 8.34  
Type of gas used in treatment: Min frac gradient (psi/ft): 0.99  
Total acid used in treatment (bbl): Number of staged intervals: 7  
Recycled water used in treatment (bbl): 273 Flowback volume recovered (bbl): 1132  
Fresh water used in treatment (bbl): 3742 Disposition method for flowback: RECYCLE  
Total proppant used (lbs): 253398 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: JEAN MUSE-REYNOLDS  
Title: REGULATORY COMPLIANCE Date: 3/13/2013 Email: jmuse@nobleenergyinc.com

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Att Doc Num	Name
400380974	FORM 5A SUBMITTED

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