



FORMATION: J SAND Status: PRODUCING

Treatment Date: 11/04/2011 Date of First Production this formation: 11/16/2011  
Perforations Top: 8450 Bottom: 8475 No. Holes: 80 Hole size: 0.4

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

Pumped 252,471 lbs of Ottawa Proppant, 15,779 lbs of SB Excel Proppant and 149,184 gallons of Slick Water and Silverstim.

The J-Sand and the Codell are producing through 3 composite flow through plugs

This formation is commingled with another formation:  Yes  No

**Test Information:**

Date: 12/02/2011 Hours: 12 Bbls oil: 3 Mcf Gas: 0 Bbls H2O: 0

Calculated 24 hour rate: Bbls oil: 3 Mcf Gas: 0 Bbls H2O: 0 GOR: \_\_\_\_\_

Test Method: FLOWING Casing PSI: 175 Tubing PSI: \_\_\_\_\_ Choke Size: 12/64

Gas Disposition: SOLD Gas Type: WET BTU Gas: 1345 API Gravity Oil: 47

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: \_\_\_\_\_

FORMATION: NIOBRARA-CODELL Status: PRODUCING

Treatment Date: 01/17/2012 Date of First Production this formation: 11/16/2011  
Perforations Top: 7572 Bottom: 8022 No. Holes: 132 Hole size: \_\_\_\_\_

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

The Niobrara and Codell are producing together

This formation is commingled with another formation:  Yes  No

**Test Information:**

Date: \_\_\_\_\_ Hours: \_\_\_\_\_ Bbls oil: \_\_\_\_\_ Mcf Gas: \_\_\_\_\_ Bbls H2O: \_\_\_\_\_

Calculated 24 hour rate: Bbls oil: \_\_\_\_\_ Mcf Gas: \_\_\_\_\_ Bbls 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: \_\_\_\_\_

FORMATION: NIOBRARA Status: COMMINGLED

Treatment Date: 02/05/2012 Date of First Production this formation: 10/16/2011

Perforations Top: 7572 Bottom: 7858 No. Holes: 84 Hole size: \_\_\_\_\_

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

Pumped 206,988 lbs of Ottawa Proppant and 161,221 gallons of 15% HCL, Slick Water and Silverstim.

The J-Sand and the Codell are producing through 3 composite flow through plugs

This formation is commingled with another formation:  Yes  No

**Test Information:**

Date: 02/13/2012 Hours: 10 Bbls oil: 9 Mcf Gas: 8 Bbls H2O: 8

Calculated 24 hour rate: \_\_\_\_\_ Bbls oil: 9 Mcf Gas: 8 Bbls H2O: 8 GOR: 889

Test Method: FLOWING Casing PSI: 375 Tubing PSI: \_\_\_\_\_ Choke Size: 10/64

Gas Disposition: \_\_\_\_\_ Gas Type: \_\_\_\_\_ BTU Gas: 1345 API Gravity Oil: 47

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: \_\_\_\_\_

Comment: \_\_\_\_\_

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

Signed: \_\_\_\_\_ Print Name: Tania McNutt

Title: Regulatory Analyst Date: \_\_\_\_\_ Email: tmcnutt@nobleenergyinc.com

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