



FORMATION: J-NIOBRARA-CODELL Status: COMMINGLED

Treatment Date: 08/05/2010 Date of First Production this formation: 08/06/2010

Perforations Top: 7084 Bottom: 7770 No. Holes: 204 Hole size: 0

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

Commingled Codell / Niobrara / J-Sand

This formation is commingled with another formation:  Yes  No

**Test Information:**

Date: 08/13/2010 Hours: 24 Bbls oil: 6 Mcf Gas: 11 Bbls H2O: 0

Calculated 24 hour rate: Bbls oil: 6 Mcf Gas: 11 Bbls H2O: 0 GOR: 1833

Test Method: Flowing Casing PSI: 1220 Tubing PSI: 0 Choke Size: 010/64

Gas Disposition: SOLD Gas Type: WET BTU Gas: 1295 API Gravity Oil: 53

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: J SAND Status: PRODUCING

Treatment Date: 08/05/2010 Date of First Production this formation: 08/06/2010

Perforations Top: 7739 Bottom: 7770 No. Holes: 80 Hole size: 41

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

Frac'd J-Sand w/ 148680 gals of Silverstim and Slick Water with 283,585#'s of Ottawa sand.

The J-Sand is producing through a Composite Flow Through Plug.

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: PRODUCING

Treatment Date: 08/05/2010 Date of First Production this formation: 08/06/2010

Perforations Top: 7084 Bottom: 7176 No. Holes: 48 Hole size: 73

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

Frac'd Niobrara w/ 173880 gals of Silverstim and Slick Water with 248,518#'s of Ottawa sand.

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: \_\_\_\_\_

Comment:

\_\_\_\_\_

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

Signed: \_\_\_\_\_ Print Name: Eileen Roberts

Title: Regulatory Specialist Date: \_\_\_\_\_ Email eroberts@nobleenergyinc.com

Based on the information provided herein, this Completed Interval Report (Form 5A) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_