



### Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION  
Treatment Date: 02/09/2012 End Date: 02/09/2012 Date of First Production this formation: 11/10/2012  
Perforations Top: 7126 Bottom: 7346 No. Holes: 36 Hole size: 7/20

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

Niobrara frac Slickwater Treatment  
Niobrara frac Treatment Totals: Total 200,200 lbs 40/70 Ottawa, 4,000 lbs 20/40 SLC Pumped 0.5 ppa to 2.0 ppa in 4248.7 bbls of fluid.  
Total fluid pumped 5947.4 bbls.  
15:35 on line thru 18/64 carbide choke 2800 psi.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 5947 Max pressure during treatment (psi): 6022

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): 0.96

Total acid used in treatment (bbl): 0 Number of staged intervals: 1

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 706

Fresh water used in treatment (bbl): 5947 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 204200 Rule 805 green completion techniques were utilized:

Reason why green completion not utilized: \_\_\_\_\_

**Fracture stimulations must be reported on FracFocus.org**

#### Test Information:

Date: 01/11/2012 Hours: 24 Bbl oil: 122 Mcf Gas: 148 Bbl H2O: 1

Calculated 24 hour rate: Bbl oil: 122 Mcf Gas: 148 Bbl H2O: 1 GOR: 1213

Test Method: Test Separator Casing PSI: 200 Tubing PSI: 788 Choke Size: 12/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1306 API Gravity Oil: 45

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: Shannon Hartnett

Title: Reg. Compl. Spec. Date: 7/31/2013 Email: shartnett@gwogco.com

### Attachment Check List

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