

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 05/02/2011 End Date: 05/02/2011 Date of First Production this formation: 05/05/2011
Perforations Top: 7228 Bottom: 7238 No. Holes: 40 Hole size: 0.41

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

PUMPED 249150# OTTAWA SAND DOWNHOLE in 146789gals of 15%HCL Acid/SilverStim/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): 3495 Max pressure during treatment (psi): 4552
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): 0.84
Total acid used in treatment (bbl): 22 Number of staged intervals: 9
Recycled water used in treatment (bbl): 247 Flowback volume recovered (bbl): _____
Fresh water used in treatment (bbl): 3226 Disposition method for flowback: RECYCLE
Total proppant used (lbs): 249150 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: FRACTURE STIMULATION

Treatment Date: 05/02/2011 End Date: 05/02/2011 Date of First Production this formation: 05/08/2011
Perforations Top: 7048 Bottom: 7238 No. Holes: 64 Hole size: 0.41

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: 05/25/2011 Hours: 24 Bbl oil: 27 Mcf Gas: 22 Bbl H2O: 1

Calculated 24 hour rate: Bbl oil: 27 Mcf Gas: 22 Bbl H2O: 1 GOR: 815

Test Method: FLOWING Casing PSI: 1180 Tubing PSI: 1050 Choke Size: 48/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1214 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: ** Wireline and Cement Job Summary must be attached.

FORMATION: NIOBRARA Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 05/02/2011 End Date: 05/02/2011 Date of First Production this formation: 05/05/2011
Perforations Top: 7048 Bottom: 7060 No. Holes: 24 Hole size: 0.73

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

CODELL IS PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUG PUMPED 250514# OTTAWA SAND DOWNHOLE in 164018gals of SilverStim/GELLED/SLICK/RECYCLED/FRESH WATER

This formation is commingled with another formation: Yes No

Total fluid used in treatment (bbl): 3905 Max pressure during treatment (psi): 4693

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): 0.89

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

Recycled water used in treatment (bbl): 271 Flowback volume recovered (bbl): 113

Fresh water used in treatment (bbl): 3634 Disposition method for flowback: RECYCLE

Total proppant used (lbs): 250514 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: 3/12/2013 Email: jmuse@nobleenergyinc.com

Attachment Check List

Att Doc Num	Name
400380941	FORM 5A SUBMITTED

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