

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 02/18/2012 End Date: 02/18/2012 Date of First Production this formation: 04/18/2012
Perforations Top: 7350 Bottom: 7370 No. Holes: 38 Hole size: 7/20

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

Codell Frac Treatment
Codell Treatment Totals: Cln Fluid: 4139.0 bbls, Sand Laden Fluid: 2638.8 bbls, Proppant: 115,680 lbs 30/50, ATP: 4738 psi, ATR: 60.5 bpm, MTP: 5374 psi, MTR: 60.7 bpm.

This formation is commingled with another formation: Yes No

Total fluid used in treatment (bbl): <u>4139</u>	Max pressure during treatment (psi): <u>5374</u>
Total gas used in treatment (mcf): <u>0</u>	Fluid density at initial fracture (lbs/gal): <u>8.34</u>
Type of gas used in treatment: _____	Min frac gradient (psi/ft): <u>0.86</u>
Total acid used in treatment (bbl): <u>0</u>	Number of staged intervals: <u>1</u>
Recycled water used in treatment (bbl): <u>0</u>	Flowback volume recovered (bbl): <u>1732</u>
Fresh water used in treatment (bbl): <u>4139</u>	Disposition method for flowback: <u>DISPOSAL</u>
Total proppant used (lbs): <u>115680</u>	Rule 805 green completion techniques were utilized: <input checked="" type="checkbox"/>

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: NIORARA-CODELL Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: _____ End Date: _____ Date of First Production this formation: 04/18/2012

Perforations Top: 7061 Bottom: 7370 No. Holes: 57 Hole size: 7/20

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

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: 04/19/2012 Hours: 24 Bbl oil: 400 Mcf Gas: 206 Bbl H2O: 58

Calculated 24 hour rate: Bbl oil: 400 Mcf Gas: 206 Bbl H2O: 6 GOR: 0

Test Method: Test Separator Casing PSI: 1900 Tubing PSI: 1300 Choke Size: 12/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1357 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: NIORARA Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 03/04/2012 End Date: 03/04/2012 Date of First Production this formation: 04/18/2012
Perforations Top: 7061 Bottom: 7230 No. Holes: 19 Hole size: 7/20

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

Niobrara Frac Treatment
Niobrara Treatment Totals: Cln Fluid: 5946.2 bbls, Sand Laden Fluid: 4343.9 bbls, Proppant: 199,1400 lbs 40/50, 4000 20/40 SLC
ATP: 4473 psi, ATR: 59.7 bpm, MTP: 5525 psi, MTR: 60.2 bpm.

This formation is commingled with another formation: Yes No

Total fluid used in treatment (bbl): 5946 Max pressure during treatment (psi): 5525

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): 0.87

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

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 1732

Fresh water used in treatment (bbl): 5946 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 203140 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: Shannon Hartnett

Title: Reg. Compl. Spec. Date: _____ Email regulatorypermitting@gwogco.com

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400354117	CEMENT JOB SUMMARY
400354118	CEMENT JOB SUMMARY

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)