

FORM  
5A

Rev  
06/12

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

400351769

Date Received:

12/27/2012

COMPLETED INTERVAL REPORT

The completed interval Report, Form 5A, shall be submitted within thirty (30) days of completing a formation (successful or not), when a formation is temporarily abandoned or permanently abandoned, for a recompletion, reperforation or restimulation, or when a formation is commingled. Fill out a section for each formation. Attach as many pages as required to fully describe the work. List in order of completion.

1. OGCC Operator Number: 100322

2. Name of Operator: NOBLE ENERGY INC

3. Address: 1625 BROADWAY STE 2200

City: DENVER

State: CO

Zip: 80202

4. Contact Name: JEAN MUSE-REYNOLDS

Phone: (303) 228-4316

Fax: (303) 228-4286

5. API Number 05-123-35582-00

7. Well Name: BUTTERBALL D

8. Location: QtrQtr: NENW

Section: 19

Township: 3N

Range: 64W

Meridian: 6

9. Field Name: WATTENBERG

Field Code: 90750

6. County: WELD

Well Number: 19-17D

Completed Interval

FORMATION: <u>CODELL</u>		Status: <u>COMMINGLED</u>		Treatment Type: <u>FRACTURE STIMULATION</u>	
Treatment Date: <u>07/15/2012</u>		End Date: <u>07/15/2012</u>		Date of First Production this formation: <u>08/16/2012</u>	
Perforations	Top: <u>7605</u>	Bottom: <u>7619</u>	No. Holes: <u>56</u>	Hole size: <u>0.44</u>	

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

PUMPED 232539# OTTAWA SAND DOWNHOLE in 124157gals of 15% HCL/PermStim/GELLED/SLICK/FRESH WATER  
 CODELL AND J SAND ARE PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUGS

This formation is commingled with another formation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Total fluid used in treatment (bbl): <u>2956</u>	Max pressure during treatment (psi): <u>4871</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>0.87</u>	
Total acid used in treatment (bbl): <u>12</u>	Number of staged intervals: <u>8</u>	
Recycled water used in treatment (bbl): <u>240</u>	Flowback volume recovered (bbl): _____	
Fresh water used in treatment (bbl): <u>2704</u>	Disposition method for flowback: <u>RECYCLE</u>	
Total proppant used (lbs): <u>232539</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: <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, number of sacks cmt _____
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\*\* Bridge Plug Depth: \_\_\_\_\_      \*\* Sacks cement on top: \_\_\_\_\_      \*\* Wireline and Cement Job Summary must be attached.

FORMATION: J-NIOBRARA-CODELL		Status: COMMINGLED		Treatment Type: _____	
Treatment Date: _____		End Date: _____		Date of First Production this formation: 06/17/2012	
Perforations	Top: 7378	Bottom: 8074	No. Holes: 128	Hole size: 0.44	

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

CODELL AND J SAND ARE PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUGS

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: <input type="checkbox"/>

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

Fracture stimulations must be reported on [FracFocus.org](http://FracFocus.org)

**Test Information:**

Date: 09/17/2012	Hours: 40	Bbl oil: 78	Mcf Gas: 27	Bbl H2O: 34
Calculated 24 hour rate:	Bbl oil: 78	Mcf Gas: 27	Bbl H2O: 34	GOR: 346
Test Method: FLOWING	Casing PSI: 1105	Tubing PSI: 0	Choke Size: 12/64	
Gas Disposition: SOLD	Gas Type: WET	Btu Gas: 1194	API Gravity Oil: 51	
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: <u>J SAND</u>		Status: <u>PRODUCING</u>		Treatment Type: <u>FRACTURE STIMULATION</u>	
Treatment Date: <u>07/15/2012</u>		End Date: <u>07/15/2012</u>		Date of First Production this formation: <u>08/06/2012</u>	
Perforations	Top: <u>8068</u>	Bottom: <u>8074</u>	No. Holes: <u>24</u>	Hole size: <u>0.4</u>	

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

PUMPED 272857# OTTAWA SAND DOWNHOLE in 168353gals of PermStim/GELLED/SLICK/FRESH WATER  
 CODELL AND J SAND ARE PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUGS

This formation is commingled with another formation: ☒ Yes ☐ No

Total fluid used in treatment (bbl): <u>4008</u>	Max pressure during treatment (psi): <u>6364</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>0.64</u>
Total acid used in treatment (bbl): <u>0</u>	Number of staged intervals: <u>10</u>
Recycled water used in treatment (bbl): <u>296</u>	Flowback volume recovered (bbl): _____
Fresh water used in treatment (bbl): <u>3712</u>	Disposition method for flowback: <u>RECYCLE</u>
Total proppant used (lbs): <u>272857</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: NIOBRARA-CODELL		Status: PRODUCING		Treatment Type: _____	
Treatment Date: _____		End Date: _____		Date of First Production this formation: 06/17/2012	
Perforations	Top: 7378	Bottom: 7619	No. Holes: 104	Hole size: 0.44	

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

CODELL AND J SAND ARE PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUGS

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: <input type="checkbox"/>

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

Fracture stimulations must be reported on [FracFocus.org](http://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 Status: COMMINGLED Treatment Type: FRACTURE STIMULATION  
Treatment Date: 07/15/2012 End Date: 08/01/2012 Date of First Production this formation: 08/06/2012  
Perforations Top: 7378 Bottom: 7490 No. Holes: 48 Hole size: 0.73  
Provide a brief summary of the formation treatment: Open Hole: ☐

PUMPED 235049# OTTAWA SAND DOWNHOLE in 165424gals of PermStim/GELLED/SLICK/FRESH WATER  
CODELL AND J SAND ARE PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUGS.

This formation is commingled with another formation: ☒ Yes ☐ No  
Total fluid used in treatment (bbl): 3939 Max pressure during treatment (psi): 6083  
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): 0.89  
Total acid used in treatment (bbl): 0 Number of staged intervals: 7  
Recycled water used in treatment (bbl): 254 Flowback volume recovered (bbl):  
Fresh water used in treatment (bbl): 3685 Disposition method for flowback: RECYCLE  
Total proppant used (lbs): 235049 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:

CODELL AND J-SAND ARE PRODUCING THROUGH COMPOSITE FLOW-THROUGH PLUGS

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: 12/27/2012 Email: jmuse@nobleenergyinc.com

**Attachment Check List**

Att Doc Num	Name
400351769	FORM 5A SUBMITTED

Total Attach: 1 Files

**General Comments**

User Group	Comment	Comment Date

Total: 0 comment(s)