

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:

2430207

Date Received:

08/29/2013

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: 62340  
2. Name of Operator: NATIONAL FUEL CORPORATION  
3. Address: 8400 EAST PRENTICE AVE #735  
City: GREENWOOD State: CO Zip: 80111-  
4. Contact Name: ANDREW BUSCH  
Phone: (303) 220-7772  
Fax: (303) 220-7773  
Email: ABUSCH@NATIONAL-FUEL.COM

5. API Number 05-045-06163-00  
6. County: GARFIELD  
7. Well Name: FERGUSON  
Well Number: 3-9  
8. Location: QtrQtr: NESW Section: 9 Township: 8S Range: 104W Meridian: 6  
9. Field Name: Field Code:

Completed Interval

FORMATION: DAKOTA Status: PRODUCING Treatment Type:  
Treatment Date: 05/22/2013 End Date: Date of First Production this formation: 06/06/2013  
Perforations Top: 2816 Bottom: 2901 No. Holes: 46 Hole size: 38/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

CLEANED PERFS WITH 1100 GALLONS OF 7 1/2% HCl.

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: 05/24/2013 Hours: 10 Bbl oil: Mcf Gas: 24 Bbl H2O:  
Calculated 24 hour rate: Bbl oil: Mcf Gas: 58 Bbl H2O: GOR:  
Test Method: production mete Casing PSI: Tubing PSI: 22 Choke Size:  
Gas Disposition: SOLD Gas Type: DRY Btu Gas: 1060 API Gravity Oil:  
Tubing Size: 2 + 3/8 Tubing Setting Depth: 2779 Tbg setting date: 05/21/2013 Packer Depth: 2779

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: ENTRADA		Status: ABANDONED WELLBORE/COMPLETION		Treatment Type: _____	
Treatment Date: 05/16/2013		End Date: _____		Date of First Production this formation: _____	
Perforations	Top: 3556	Bottom: 3575	No. Holes: 19	Hole size: 38/100	

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

CIBP SET AT 3490' WITH 4 SACKS OF CEMENT ON TOP.

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**

**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: 

NON-ECONOMICAL.

Date formation Abandoned: 05/16/2013 Squeeze: ☐ Yes ☒ No If yes, number of sacks cmt \_\_\_\_\_

\*\* Bridge Plug Depth: 3490      \*\* Sacks cement on top: 4      \*\* Wireline and Cement Job Summary must be attached.

FORMATION: SALT WASH Status: PRODUCING Treatment Type: \_\_\_\_\_  
Treatment Date: 05/20/2013 End Date: \_\_\_\_\_ Date of First Production this formation: 05/21/2013  
Perforations Top: 3313 Bottom: 3328 No. Holes: 30 Hole size: 38/100  
Provide a brief summary of the formation treatment: \_\_\_\_\_ Open Hole: ☐

CLEANED PERFS WITH 750 GALLONS OF 7 1/2% HCl.

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: 05/20/2013 Hours: 10 Bbl oil: \_\_\_\_\_ Mcf Gas: 10 Bbl H2O: \_\_\_\_\_

Calculated 24 hour rate: Bbl oil: \_\_\_\_\_ Mcf Gas: 24 Bbl H2O: \_\_\_\_\_ GOR: \_\_\_\_\_

Test Method: PRODUCTION METE Casing PSI: \_\_\_\_\_ Tubing PSI: 25 Choke Size: \_\_\_\_\_

Gas Disposition: SOLD Gas Type: DRY Btu Gas: 400 API Gravity Oil: \_\_\_\_\_

Tubing Size: 2 + 3/8 Tubing Setting Depth: 3246 Tbg setting date: 05/17/2013 Packer Depth: 3246

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:

CHECK DAKOTA FORMATION - OPERATOR MARKED BOTH YES AND NO FOR SQUEEZED ENTRY.

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

Signed: \_\_\_\_\_ Print Name: ANDREW BUSCH

Title: VP OF OPERATIONS Date: 8/20/2013 Email: ABUSCH@NATIONAL-FUEL.COM

**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
2430207	FORM 5A SUBMITTED
2430208	WELLBORE DIAGRAM

Total Attach: 2 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Passes Permitting.No both Yes and No found. 5A ok.	10/23/2014 3:39:20 PM
Data Entry	CHECK FORMATION DAKOTA SQUEEZED - BOTH YES AND NO ARE MARKED BY OPERATOR.	9/12/2013 11:55:01 AM

Total: 2 comment(s)