

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:  
400557575

Date Received:  
02/20/2014

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: <u>57667</u>	4. Contact Name: <u>CLAYTON DOKE</u>
2. Name of Operator: <u>MINERAL RESOURCES, INC.</u>	Phone: <u>(720) 420-5700</u>
3. Address: <u>PO BOX 328</u>	Fax: <u>(720) 420-5800</u>
City: <u>GREELEY</u> State: <u>CO</u> Zip: <u>80632</u>	Email: <u>cdoke@iptengineers.com</u>

5. API Number <u>05-123-22953-00</u>	6. County: <u>WELD</u>
7. Well Name: <u>CLARK</u>	Well Number: <u>A1</u>
8. Location: QtrQtr: <u>NENE</u> Section: <u>20</u> Township: <u>5N</u> Range: <u>65W</u> Meridian: <u>6</u>	
9. Field Name: <u>WATTENBERG</u> Field Code: <u>90750</u>	

Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 03/31/2011 End Date: 03/31/2011 Date of First Production this formation: 12/01/2005  
Perforations Top: 7740 Bottom: 7750 No. Holes: 40 Hole size: 42/100

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

Re-Perf 7,740'-7,750'. Frac CODL [7740'-7750'] w/ 128,016 gal fluid and 251,820# 20/40 sand (32,197 gal slick wtr, 95,819 gal xlink gel). ISIP=2770 psi (0.83 F.G.). ISDP=3655 psi (0.95 F.G. 885 psi increase), ATP=5301 psi, ATR=50.9 BPM,  $\mu_{ave}$ =23 cp @ 64°F. MTP=5445 psi, MTR=51.3 BPM.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 3048 Max pressure during treatment (psi): 5445

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 9.08

Type of gas used in treatment: \_\_\_\_\_ Min frac gradient (psi/ft): 0.83

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

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 828

Fresh water used in treatment (bbl): 3048 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 251820 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: \_\_\_\_\_

Treatment Date: \_\_\_\_\_ End Date: \_\_\_\_\_ Date of First Production this formation: 04/18/2011

Perforations Top: 7264 Bottom: 7750 No. Holes: 84 Hole size: \_\_\_\_\_

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: 04/18/2011 Hours: 432 Bbl oil: 724 Mcf Gas: 3701 Bbl H2O: 596

Calculated 24 hour rate: Bbl oil: 40 Mcf Gas: 205 Bbl H2O: 10 GOR: 5112

Test Method: Flowing Casing PSI: 1400 Tubing PSI: 1580 Choke Size: 24/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1294 API Gravity Oil: 59

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7723 Tbg setting date: 04/29/2011 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: 03/31/2011 End Date: 03/31/2011 Date of First Production this formation: 04/18/2011  
Perforations Top: 7264 Bottom: 7466 No. Holes: 48 Hole size: 42/100

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

Perf. Frac NBRR A [7,264'-7,270'] & NBRR B [7,460'-7,466'] w/ 221,172 gal fluid (126,420 gal SLKW, 94,752 gal XLG) and 306,220# sand (251,000 20/40 & 55,220 40/70). ISIP=3435 psi (0.95 F.G.). ISDP 3795 (FG 1.01, 360 psi increase), 1 min 3762, 4 min 3505, ATP=5303 psi, ATR=57.2 BPM, MTP=5727 psi, MTR=60.8 BPM.

This formation is commingled with another formation:  Yes  No  
Total fluid used in treatment (bbl): 5266 Max pressure during treatment (psi): 5727  
Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 9.53  
Type of gas used in treatment: Min frac gradient (psi/ft): 0.95  
Total acid used in treatment (bbl): 0 Number of staged intervals: 1  
Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 828  
Fresh water used in treatment (bbl): 5266 Disposition method for flowback: DISPOSAL  
Total proppant used (lbs): 306220 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:  
Wellbore diagram is attached. All flowback water entries are estimates based upon commingled volumes, adn have been allocated equally to each formation.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.  
Signed: \_\_\_\_\_ Print Name: CLAYTON DOKE  
Title: SENIOR PETROLEUM ENGINEER Date: 2/20/2014 Email: cdoke@iptengineers.com

**Attachment Check List**

Att Doc Num	Name
400557575	FORM 5A SUBMITTED
400557651	WELLBORE DIAGRAM

Total Attach: 2 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Corrected Niobrara sand total.	3/20/2014 3:55:43 PM

Total: 1 comment(s)