

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:

400562567

Date Received:

02/27/2014

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

5. API Number 05-123-24208-00	6. County: WELD
7. Well Name: HWY 85-3	Well Number: C4
8. Location: QtrQtr: NENE Section: 20 Township: 5N Range: 65W Meridian: 6	
9. Field Name: WATTENBERG	Field Code: 90750

Completed Interval

FORMATION: <u>CODELL</u>		Status: <u>COMMINGLED</u>		Treatment Type: <u>FRACTURE STIMULATION</u>	
Treatment Date: <u>04/02/2011</u>		End Date: <u>04/02/2011</u>		Date of First Production this formation: <u>05/08/2007</u>	
Perforations	Top: <u>7980</u>	Bottom: <u>7990</u>	No. Holes: <u>40</u>	Hole size: <u>042/100</u>	

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

Re-frac CODL w/ 129,528 gal fluid (32,084 gal SW, 97,444 gal xlink gel) and 253,940# 20/40 sand  
 ISIP=2295, ISDP=3570, ATP=5043, ATR=50.9

This formation is commingled with another formation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Total fluid used in treatment (bbl): <u>3084</u>	Max pressure during treatment (psi): <u>5608</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>0.76</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>548</u>
Fresh water used in treatment (bbl): <u>3084</u>	Disposition method for flowback: <u>DISPOSAL</u>
Total proppant used (lbs): <u>253940</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: NIOBRARA-CODELL Status: PRODUCING Treatment Type: \_\_\_\_\_

Treatment Date: \_\_\_\_\_ End Date: \_\_\_\_\_ Date of First Production this formation: 04/12/2011

Perforations Top: 7710 Bottom: 7990 No. Holes: 88 Hole size: 042/100

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: 04/20/2011 Hours: 24 Bbl oil: 25 Mcf Gas: 160 Bbl H2O: 21

Calculated 24 hour rate: Bbl oil: 25 Mcf Gas: 160 Bbl H2O: 21 GOR: 6400

Test Method: FLOWING Casing PSI: 1170 Tubing PSI: 980 Choke Size: 014/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1272 API Gravity Oil: 63

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7961 Tbg setting date: 05/03/2011 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: 04/03/2011 End Date: 04/02/2011 Date of First Production this formation: 04/12/2011  
Perforations Top: 7710 Bottom: 7836 No. Holes: 48 Hole size: 042/100  
Provide a brief summary of the formation treatment: Open Hole: ☐

Perf. Frac NBRR A [7,710'-7,716'] & NBRR B [7,830'-7,836'] w/ 231,126 gal fluid (131,082 gal SLKW, 100,044 gal XLG)& 294,580# sand (240,440# 20/40 & 54,140# 40/70)  
ISIP=3435, ISDP=3605, ATP=5177, ATR=51.1

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

Total fluid used in treatment (bbl): 5503 Max pressure during treatment (psi): 5863  
Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 9.72  
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): 548  
Fresh water used in treatment (bbl): 5503 Disposition method for flowback: DISPOSAL  
Total proppant used (lbs): 294580 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: CLAYTON DOKE  
Title: SENIOR ENGINEER Date: 2/27/2014 Email: clay.doke@iptenergyservices.com  
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**Attachment Check List**

Att Doc Num	Name
400562567	FORM 5A SUBMITTED
400562593	WELLBORE DIAGRAM

Total Attach: 2 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Corrected NB-CD number of holes to 88. Added dates of first production. Ready to pass.	2/28/2014 9:19:24 AM

Total: 1 comment(s)