

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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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: 10051

2. Name of Operator: APOLLO OPERATING LLC

3. Address: 1538 WAZEE ST STE 200

City: DENVER

State: CO

Zip: 80202

4. Contact Name: TANYA CARPIO

Phone: (303) 830-0888 X.201

Fax: (303) 830-2818

5. API Number 05-123-37072-00

7. Well Name: MARKHAM

8. Location: QtrQtr: NESE

Section: 32

Township: 4N

Range: 68W

Meridian: 6

9. Field Name: WATTENBERG

Field Code: 90750

6. County: WELD

Well Number: 44-32D

Completed Interval

FORMATION: <u>CODELL</u>		Status: <u>COMMINGLED</u>		Treatment Type: <u>FRACTURE STIMULATION</u>	
Treatment Date: <u>05/16/2013</u>		End Date: <u>05/16/2013</u>		Date of First Production this formation: <u>06/17/2013</u>	
Perforations	Top: <u>7444</u>	Bottom: <u>7464</u>	No. Holes: <u>80</u>	Hole size: <u>38/100</u>	

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

CODELL SHOT FROM 7444'-7464' W/4 SPF AND 120 DEGREE PHASING. CODELL FRAC'D WITH 5599 BBLS FR WATER TREATMENT & 90020 LBS OF 30/50 PROPPANT. FORMATION BREAK @ 3383 PSI & 4.2 BPM, TREATED @ 4525 PSI AVERAGE PRESSURE, 57.7 PBM AVERAGE RATE.

This formation is commingled with another formation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Total fluid used in treatment (bbl): <u>5599</u>	Max pressure during treatment (psi): <u>5360</u>
Total gas used in treatment (mcf): _____	Fluid density at initial fracture (lbs/gal): <u>8.40</u>
Type of gas used in treatment: _____	Min frac gradient (psi/ft): <u>0.82</u>
Total acid used in treatment (bbl): _____	Number of staged intervals: <u>1</u>
Recycled water used in treatment (bbl): _____	Flowback volume recovered (bbl): <u>2056</u>
Fresh water used in treatment (bbl): <u>5599</u>	Disposition method for flowback: <u>DISPOSAL</u>
Total proppant used (lbs): <u>90020</u>	Rule 805 green completion techniques were utilized: <input type="checkbox"/>
Reason why green completion not utilized: <u>PIPELINE</u>	

**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: 06/17/2013

Perforations Top: 7215 Bottom: 7460 No. Holes: 308 Hole size: 38/100

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: 06/17/2013 Hours: 24 Bbl oil: 18 Mcf Gas: 17 Bbl H2O: 214

Calculated 24 hour rate: Bbl oil: 18 Mcf Gas: 17 Bbl H2O: 214 GOR: 945

Test Method: FLOWING Casing PSI: 1650 Tubing PSI: \_\_\_\_\_ Choke Size: 12/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1250 API Gravity Oil: 45

Tubing Size: \_\_\_\_\_ Tubing Setting Depth: \_\_\_\_\_ Tbg setting date: \_\_\_\_\_ Packer Depth: \_\_\_\_\_

Reason for Non-Production: TUBING NOT RUN YET. NIOBRARA AND CODELL FORMATIONS WERE TESTED TOGETHER.

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: 05/21/2013 End Date: 05/21/2013 Date of First Production this formation: 06/17/2013

Perforations Top: 7215 Bottom: 7322 No. Holes: 244 Hole size: 38/100

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

NIOBRARA C SHOT FROM 7293-7322 & NIOBRARA B SHOT FROM 7215-7247 ALL W/4 SPF AND 120 DEGREE PHASING. NIOBRARA FRAC'D WITH 5245 BBLs FR WATER TREATMENT & 89933 LBS OF 30/50 PROPPANT. FORMATION BREAK @ 2656 PSI & 4.7 BPM, TREATED @4180 PSI AVERAGE PRESSURE, 59.8 BPM AVERAGE RATE.

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

Total fluid used in treatment (bbl): 5245 Max pressure during treatment (psi): 4312

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal): 8.40

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

Total acid used in treatment (bbl): 23 Number of staged intervals: 1

Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 2578

Fresh water used in treatment (bbl): 5220 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 89933 Rule 805 green completion techniques were utilized: ☐

Reason why green completion not utilized: PIPELINE

**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: TANYA CARPIO

Title: OFFICE MANAGER Date: 6/25/2013 Email: TCARPIO@APOLLOOPERATING.COM

### Attachment Check List

Att Doc Num	Name
400435721	FORM 5A SUBMITTED
400435748	WELLBORE DIAGRAM

Total Attach: 2 Files

### General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)