

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:

400430294

Date Received:

06/25/2013

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: 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 05-123-37071-00

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: 33-32D

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>06/18/2013</u> | |
| Perforations | Top: <u>7708</u> | Bottom: <u>7732</u> | No. Holes: <u>96</u> | Hole size: <u>38/100</u> | |

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

CODELL SHOT FROM 7708'-7732' W/4 SPF AND 120 DEGREE PHASING. CODELL FRAC'D WITH 4611 BBLs FR WATER TREATMENT & 90180 LBS OF 30/50 PROPPANT. FORMATION BREAK @ 3164 PSI & 4.7 BPM, TREATED @ 4386 PSI AVERAGE PRESSURE, 60.1 BPM 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>4611</u> | Max pressure during treatment (psi): <u>5339</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>0.77</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>1407</u> |
| Fresh water used in treatment (bbl): <u>4611</u> | Disposition method for flowback: <u>DISPOSAL</u> |
| Total proppant used (lbs): <u>90180</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 _____ |
|---------------------------------|---|-----------------------------------|

** 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: 06/18/2013

Perforations Top: 7412 Bottom: 7732 No. Holes: 428 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: 06/18/2013 Hours: 24 Bbl oil: 10 Mcf Gas: 7 Bbl H2O: 194

Calculated 24 hour rate: Bbl oil: 10 Mcf Gas: 7 Bbl H2O: 194 GOR: 720

Test Method: FLOWING Casing PSI: 1250 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: 06/18/2013
Perforations Top: 7412 Bottom: 7590 No. Holes: 332 Hole size: 38/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

NIOBRARA C SHOT FROM 7550'-7590', NIOBRARA B SHOT FROM 7485'-7510' & NIOBRARA A SHOT FROM 7412'-7430' ALL W/4 SPF AND 120 DEGREE PHASING. NIOBRARA FRAC'D WITH 5245 BBLs FR WATER TREATMENT & 90120 LBS OF 30/50 PROPPANT. FORMATION BREAK @ 2742 PSI & 5.0 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): 5388

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): 0.79

Total acid used in treatment (bbl): 23

Number of staged intervals: 1

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 2195

Fresh water used in treatment (bbl): 5220

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 90120

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 |
|-------------|-------------------|
| 400430294 | FORM 5A SUBMITTED |
| 400435714 | WELLBORE DIAGRAM |

Total Attach: 2 Files

General Comments

| User Group | Comment | Comment Date |
|------------|---------|--------------|
| | | |

Total: 0 comment(s)