

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:

400369460

Date Received:

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 05-069-06450-00

7. Well Name: MURDOCK

8. Location: QtrQtr: SESW Section: 34 Township: 5N Range: 68W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: LARIMER

Well Number: 13-34D

Completed Interval

FORMATION: <u>CODELL</u>		Status: <u>COMMINGLED</u>		Treatment Type: <u>FRACTURE STIMULATION</u>	
Treatment Date: <u>12/06/2012</u>		End Date: <u>12/06/2012</u>		Date of First Production this formation: <u>12/06/2012</u>	
Perforations	Top: <u>7489</u>	Bottom: <u>7506</u>	No. Holes: <u>68</u>	Hole size: <u>38/100</u>	

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

Fraced Codell on 12-6-2012 with Superior, pumped 811 Bbl. Pad and 4253 Bbl. SLF Fluid , 91,180 lbs. of 30/50White Sand, flush with 300 Bbls., ATP= 4012 psi, Max=5237 psi, AR= 60.5 BPM, Max= 61.1 BPM , ISIP=2727 psi, FG=0.797, 5 min.= 2662psi

This formation is commingled with another formation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Total fluid used in treatment (bbl): <u>5363</u>	Max pressure during treatment (psi): <u>5237</u>
Total gas used in treatment (mcf): <u>0</u>	Fluid density at initial fracture (lbs/gal): <u>8.40</u>
Type of gas used in treatment: _____	Min frac gradient (psi/ft): <u>0.79</u>
Total acid used in treatment (bbl): <u>0</u>	Number of staged intervals: <u>6</u>
Recycled water used in treatment (bbl): <u>0</u>	Flowback volume recovered (bbl): <u>857</u>
Fresh water used in treatment (bbl): <u>5363</u>	Disposition method for flowback: <u>DISPOSAL</u>
Total proppant used (lbs): <u>91180</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: <u>12/08/2012</u>	Hours: <u>24</u>	Bbl oil: <u>30</u>	Mcf Gas: <u>42</u>	Bbl H2O: <u>64</u>
Calculated 24 hour rate:	Bbl oil: <u>30</u>	Mcf Gas: <u>42</u>	Bbl H2O: <u>64</u>	GOR: <u>1400</u>
Test Method: <u>FLOWING</u>	Casing PSI: <u>550</u>	Tubing PSI: _____	Choke Size: <u>12/64</u>	
Gas Disposition: <u>VENTED</u>	Gas Type: <u>DRY</u>	Btu Gas: <u>1340</u>	API Gravity Oil: <u>44</u>	
Tubing Size: _____	Tubing Setting Depth: _____	Tbg setting date: _____	Packer Depth: _____	

Reason for Non-Production: TUBING HAS NOT BEEN RUN YET.

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: SHUT IN		Treatment Type: FRACTURE STIMULATION	
Treatment Date: _____		End Date: _____		Date of First Production this formation: _____	
Perforations	Top: 7164	Bottom: 7506	No. Holes: 156	Hole size: 38/100	
Provide a brief summary of the formation treatment:			Open Hole: <input type="checkbox"/>		
SHUT IN, WAITING ON PIPELINE CONNECTION.					
This formation is commingled with another formation:			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: _____					
<b>Fracture stimulations must be reported on FracFocus.org</b>					
<b><u>Test Information:</u></b>					
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: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>					
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 Status: COMMINGLED Treatment Type: FRACTURE STIMULATION  
Treatment Date: 12/12/2012 End Date: 12/12/2012 Date of First Production this formation: 12/12/2012  
Perforations Top: 7164 Bottom: 7275 No. Holes: 88 Hole size: 38/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

Frac'd NIO " A & B " on 12-12-2012 with Superior, pumped 939 Bbl. Pad, 1000 gal 15% acid and 4181 Bbl. SLF Fluid 90,080 lbs. of 30/50 White Sand, flush with 300 Bbls., ATP= 4542 psi, Max=5618 psi, AR= 61.6 BPM, Max= 63.0 BPM, ISIP=2856 psi, FG=0.829; 5 min.= 2776 psi

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

Total fluid used in treatment (bbl): 5445

Max pressure during treatment (psi): 5618

Total gas used in treatment (mcf): 0

Fluid density at initial fracture (lbs/gal): 8.40

Type of gas used in treatment: \_\_\_\_\_

Min frac gradient (psi/ft): 0.82

Total acid used in treatment (bbl): 24

Number of staged intervals: 11

Recycled water used in treatment (bbl): 0

Flowback volume recovered (bbl): 1205

Fresh water used in treatment (bbl): 5445

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 90080

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: 12/13/2012 Hours: 24 Bbl oil: 42 Mcf Gas: 89 Bbl H2O: 138  
Calculated 24 hour rate: Bbl oil: 42 Mcf Gas: 89 Bbl H2O: 138 GOR: 2119  
Test Method: FLOWING Casing PSI: 1250 Tubing PSI: \_\_\_\_\_ Choke Size: 12/64  
Gas Disposition: VENTED Gas Type: DRY Btu Gas: 1340 API Gravity Oil: 44  
Tubing Size: \_\_\_\_\_ Tubing Setting Depth: \_\_\_\_\_ Tbg setting date: \_\_\_\_\_ Packer Depth: \_\_\_\_\_

Reason for Non-Production: TUBING HAS NOT BEEN RUN YET. FLOW THRU CAST IRON BRIDGE PLUG SET AT 7370' MD, BELOW NIOBRARA PERFS AND ABOVE CODELL PERFS.

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: \_\_\_\_\_ Email: TCARPIO@APOLLOOPERATING.COM

#### Attachment Check List

Att Doc Num	Name
400369537	CEMENT JOB SUMMARY
400370179	WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

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Total: 0 comment(s)