

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



DE	ET	OE	ES
----	----	----	----

Document Number:

400430294

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 05-123-37071-00

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: <input type="checkbox"/>		
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: _____					
Fracture stimulations must be reported on FracFocus.org					
<u>Test Information:</u>					
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: <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: 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: Email: TCARPIO@APOLLOOPERATING.COM

Attachment Check List

Att Doc Num	Name
400435714	WELLBORE DIAGRAM

Total Attach: 1 Files

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)