

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:

400697735

Date Received:

01/07/2015

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: 10399
2. Name of Operator: NIGHTHAWK PRODUCTION LLC
3. Address: 1805 SHEA CENTER DR #290
City: HIGHLANDS State: CO Zip: 80129
4. Contact Name: Joyce Henkin
Phone: (303) 407-9609
Fax: (303) 407-8790
Email: joycehenkin@nighthawkenergy.com

5. API Number 05-073-06561-00
6. County: LINCOLN
7. Well Name: SNOWBIRD
Well Number: 16-15
8. Location: QtrQtr: SESE Section: 15 Township: 6S Range: 54W Meridian: 6
9. Field Name: ARIKAREE CREEK Field Code: 2914

Completed Interval

FORMATION: CHEROKEE Status: PRODUCING Treatment Type: ACID JOB
Treatment Date: 10/22/2014 End Date: 10/23/2014 Date of First Production this formation: 11/10/2014
Perforations Top: 7428 Bottom: 7431 No. Holes: 18 Hole size: 48/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

Acidized with 500 gallons of 15% HCl and displaced with 45 bbls of 2% KCl water

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

Total fluid used in treatment (bbl): 57

Max pressure during treatment (psi): 1310

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): 12

Number of staged intervals:

Recycled water used in treatment (bbl): 45

Flowback volume recovered (bbl): 72

Fresh water used in treatment (bbl):

Disposition method for flowback: DISPOSAL

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: 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.

FORMATION: <u>MARMATON</u>		Status: <u>PRODUCING</u>		Treatment Type: <u>ACID JOB</u>	
Treatment Date: <u>10/27/2014</u>		End Date: <u>10/31/2014</u>		Date of First Production this formation: <u>11/10/2014</u>	
Perforations	Top: <u>7266</u>	Bottom: <u>7404</u>	No. Holes: <u>96</u>	Hole size: <u>48/100</u>	
Provide a brief summary of the formation treatment:			Open Hole: <input type="checkbox"/>		
Acidized with 1200 gallons of 15% HCl and displaced with 45 bbls of 2% KCl water in perf's 7,396'-7,404' Came uphole and Perf'd 7,266'-7,274'- Acidized with another 1200 gallons of 15% HCl and displaced with 44 bbls of 2% KCl water					
This formation is commingled with another formation:			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Total fluid used in treatment (bbl): <u>146</u>			Max pressure during treatment (psi): <u>1100</u>		
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): <u>57</u>			Number of staged intervals: _____		
Recycled water used in treatment (bbl): _____			Flowback volume recovered (bbl): <u>140</u>		
Fresh water used in treatment (bbl): <u>89</u>			Disposition method for flowback: <u>DISPOSAL</u>		
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: _____	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: MARMATON-CHEROKEE Status: COMMINGLED Treatment Type: _____

Treatment Date: _____ End Date: _____ Date of First Production this formation: _____

Perforations Top: 7428 Bottom: 8146 No. Holes: 48 Hole size: 48/100

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: 11/10/2014 Hours: 24 Bbl oil: 521 Mcf Gas: 0 Bbl H2O: 0

Calculated 24 hour rate: Bbl oil: 521 Mcf Gas: 0 Bbl H2O: 0 GOR: 0

Test Method: Pumping Casing PSI: 3 Tubing PSI: 60 Choke Size: _____

Gas Disposition: _____ Gas Type: _____ Btu Gas: 0 API Gravity Oil: 38

Tubing Size: 2 + 7/8 Tubing Setting Depth: 7321 Tbg setting date: 11/03/2014 Packer Depth: 7223

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: SPERGEN Status: ABANDONED Treatment Type: ACID JOB
WELLBORE/COMPLETION
Treatment Date: 10/21/2014 End Date: 10/22/2014 Date of First Production this formation: _____
Perforations Top: 8141 Bottom: 8146 No. Holes: 30 Hole size: 48/100
Provide a brief summary of the formation treatment: _____ Open Hole: ☐

Perf'd 8,141' - 8,146'

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: _____ 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: Recovered only water
Date formation Abandoned: 10/22/2014 Squeeze: ☐ Yes ☐ No If yes, number of sacks cmt _____
** Bridge Plug Depth: 8130 ** Sacks cement on top: 2 ** 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: Joyce Henkin
Title: Production Tech Date: 1/7/2015 Email: joycehenkin@nighthawkenergy.com
:

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400697735	FORM 5A SUBMITTED
400735147	WIRELINE JOB SUMMARY
400735156	WIRELINE JOB SUMMARY
400735171	OPERATIONS SUMMARY
400735205	WIRELINE JOB SUMMARY
400735217	OPERATIONS SUMMARY
400735259	OPERATIONS SUMMARY
400735302	WIRELINE JOB SUMMARY
400735322	OPERATIONS SUMMARY

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
#Error	COGCC made new formation Cherokee-Marmaton. Made new panel for the production test.	1/12/2015 5:48:28 AM
#Error	Production test is for the Cherokee and Marmaton together. COGCC will make a new formation code for the cherokee-marmaton so a panel can be created to show the production test and its relation to both formations.	1/7/2015 10:55:07 AM
#Error	Operator will allocate production.	1/7/2015 10:54:34 AM

Total: 3 comment(s)