

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:

400743951

Date Received:

01/29/2015

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 05-073-06528-00  
6. County: LINCOLN  
7. Well Name: SILVERTON  
Well Number: 16-10  
8. Location: QtrQtr: SESE Section: 10 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: 11/17/2014 End Date: 11/18/2014 Date of First Production this formation:  
Perforations Top: 7442 Bottom: 7445 No. Holes: 18 Hole size: 51/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

Acidized with 12 bbls of 15% HCL and displaced with 61 bbls of water

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

Total fluid used in treatment (bbl): 73

Max pressure during treatment (psi): 1710

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):

Flowback volume recovered (bbl): 45

Fresh water used in treatment (bbl): 61

Disposition method for flowback: DISPOSAL

Total proppant used (lbs):

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.

FORMATION: <u>MARMATON</u>		Status: <u>PRODUCING</u>		Treatment Type: <u>ACID JOB</u>	
Treatment Date: <u>11/19/2014</u>		End Date: <u>12/08/2014</u>		Date of First Production this formation: <u>12/12/2014</u>	
Perforations	Top: <u>7274</u>	Bottom: <u>7408</u>	No. Holes: <u>60</u>	Hole size: <u>51/100</u>	
Provide a brief summary of the formation treatment:			Open Hole: <input type="checkbox"/>		
Acidized with 38 bbls of 15% HCL with additives ... displaced with 106 bbls of 2% KCL - Perfs (7,404'-7,408') Perf's (7,274'-7,280') Acidized with 24 bbls of 15% HCL with additives and displaced with 74 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>242</u>			Max pressure during treatment (psi): <u>1850</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>62</u>			Number of staged intervals: _____		
Recycled water used in treatment (bbl): _____			Flowback volume recovered (bbl): <u>330</u>		
Fresh water used in treatment (bbl): <u>180</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: <u>PIPELINE</u>					
<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: MISSISSIPPIAN-PENNSYLVANI Status: COMMINGLED Treatment Type: \_\_\_\_\_

Treatment Date: \_\_\_\_\_ End Date: \_\_\_\_\_ Date of First Production this formation: \_\_\_\_\_

Perforations Top: 7274 Bottom: 8120 No. Holes: 78 Hole size: 51/100

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: 12/12/2014 Hours: 24 Bbl oil: 90 Mcf Gas: 21 Bbl H2O: 152

Calculated 24 hour rate: Bbl oil: 90 Mcf Gas: 12 Bbl H2O: 152 GOR: 233

Test Method: pumping Casing PSI: 35 Tubing PSI: 70 Choke Size: \_\_\_\_\_

Gas Disposition: FLARED Gas Type: DRY Btu Gas: 752 API Gravity Oil: 36

Tubing Size: 2 + 7/8 Tubing Setting Depth: 8126 Tbg setting date: 12/09/2014 Packer Depth: 7219

Reason for Non-Production: Squeezed 7,274' - 7,280' Squeezed 40 sacks; Lower Marmaton 7,404'-7,408' still open  
Test info is commingled test of all 3 formations. Marmaton, Cherokee, Spergen

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:**

Formations producing are Spergen - Cherokee & Marmaton

Test info is commingled results...

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: 1/29/2015 Email: joycehenkin@nighthawkenenergy.com

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400743951	FORM 5A SUBMITTED
400776932	WIRELINE JOB SUMMARY
400776947	OPERATIONS SUMMARY
400776953	OPERATIONS SUMMARY
400776965	WIRELINE JOB SUMMARY
400776967	OPERATIONS SUMMARY
400776970	WIRELINE JOB SUMMARY
400776971	OPERATIONS SUMMARY
400776976	CEMENT JOB SUMMARY
400776987	WELLBORE DIAGRAM

Total Attach: 10 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	form 7's must report production from Spergen, Marmaton and Cherokee.	2/2/2015 6:25:48 AM

Total: 1 comment(s)