

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:

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: 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.

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|--|---|--|--|--|--|
| 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: <u>11/10/2014</u> | Hours: <u>24</u> | Bbl oil: <u>521</u> | Mcf Gas: <u>0</u> | Bbl H2O: <u>0</u> | |
| Calculated 24 hour rate: | Bbl oil: <u>521</u> | Mcf Gas: <u>0</u> | Bbl H2O: <u>0</u> | GOR: <u>0</u> | |
| Test Method: <u>Pumping</u> | Casing PSI: <u>3</u> | Tubing PSI: <u>60</u> | Choke Size: _____ | | |
| Gas Disposition: _____ | Gas Type: _____ | Btu Gas: <u>0</u> | API Gravity Oil: <u>38</u> | | |
| Tubing Size: <u>2 + 7/8</u> | Tubing Setting Depth: <u>7321</u> | Tbg setting date: <u>10/26/2014</u> | Packer Depth: <u>7223</u> | | |
| 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: SPERGEN Status: PLUGGED AND ABANDONED Treatment Type: ACID JOB
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: _____ Email: joycehenkin@nighthawkenenergy.com

Attachment Check List

| Att Doc Num | Name |
|-------------|----------------------|
| 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: 8 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|----------------|---------------------|
| | | |

Total: 0 comment(s)