

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:

400392542

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: 10203  
2. Name of Operator: BLACK RAVEN ENERGY INC  
3. Address: 1331 17TH STREET - #350  
City: DENVER State: CO Zip: 80202  
4. Contact Name: Scott Ritger  
Phone: (303) 887-9266  
Fax: (303) 308-1590

5. API Number 05-087-07827-00  
6. County: MORGAN  
7. Well Name: Nichols  
Well Number: 13A-24  
8. Location: QtrQtr: NENE Section: 24 Township: 1N Range: 58W Meridian: 6  
9. Field Name: ADENA Field Code: 700

Completed Interval

FORMATION: D SAND Status: INJECTING Treatment Type: ACID JOB  
Treatment Date: 04/29/2013 End Date: 04/29/2013 Date of First Production this formation:  
Perforations Top: 5614 Bottom: 5622 No. Holes: 49 Hole size: 40/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

D sand perforated and acidized in preparation for conversion to a water injection well. Acid job was comprised of 750 gallons of 15% HCL and 250 gallons of 10% Acetic acid. Because the well is being converted to an injection well, there is no flowback associated with this acid job.

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

Total fluid used in treatment (bbl): 54 Max pressure during treatment (psi): 4866

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): 24 Number of staged intervals:

Recycled water used in treatment (bbl): 30 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:

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: J SAND Status: ABANDONED WELLBORE/COMPLETION Treatment Type: \_\_\_\_\_  
Treatment Date: \_\_\_\_\_ End Date: \_\_\_\_\_ Date of First Production this formation: \_\_\_\_\_  
Perforations Top: 5682 Bottom: 5692 No. Holes: 60 Hole size: \_\_\_\_\_  
Provide a brief summary of the formation treatment: \_\_\_\_\_ Open Hole: ☐

No treatment of the J sand; the original J sand perforations were abandoned with a CIBP and 2 sacks of cement.

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: No longer economic due to high water cut and well is being converted to a water injection well in an enhanced recovery project.

Date formation Abandoned: 03/04/2013 Squeeze: ☐ Yes ☒ No If yes, number of sacks cmt \_\_\_\_\_

\*\* Bridge Plug Depth: 5656 \*\* Sacks cement on top: 2 \*\* Wireline and Cement Job Summary must be attached.

Comment:

During this recompletion, the original J sand completion was abandoned beneath a CIBP and 2 sacks of cement, remedial cement was pumped from 252' to the surface (reported on Form 5), and the D sand was perforated in preparation for conversion of this well to an injection well in the D sand enhanced recovery unit that was approved under COGCC order 26-60 on May 21, 1990.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Scott Ritger  
Title: Geologist Date: \_\_\_\_\_ Email: sritger@ticdenver.com  
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**Attachment Check List**

Att Doc Num	Name
400394369	WIRELINE JOB SUMMARY
400394370	WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

User Group	Comment	Comment Date

Total: 0 comment(s)