

FORM
5ARev
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:

400368320

Date Received:

01/21/2013

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

Email: sritger@ticdenver.com

5. API Number 05-087-05494-00

6. County: MORGAN

7. Well Name: GLENN BIDDLE

Well Number: A-10

8. Location: QtrQtr: SESW

Section: 32

Township: 2N

Range: 57W

Meridian: 6

9. Field Name: ADENA

Field Code: 700

Completed Interval

FORMATION: D SAND

Status: PRODUCING

Treatment Type: FRACTURE
STIMULATION

Treatment Date:

End Date:

Date of First Production this formation: 08/16/2012

Perforations

Top: 5484

Bottom: 5496

No. Holes: 48

Hole size: 37/100

Provide a brief summary of the formation treatment:

Open Hole: ☐

1 stage: Formation was acidized with 1000 gallons 10% acetic acid and then frac'd with 524 Bbls cross-linked gel, 19,040# of 20/40 sand and 3,140# of 16/30 sand.

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

Total fluid used in treatment (bbl): 572

Max pressure during treatment (psi): 4697

Total gas used in treatment (mcf):

Fluid density at initial fracture (lbs/gal): 8.42

Type of gas used in treatment:

Min frac gradient (psi/ft): 0.77

Total acid used in treatment (bbl): 24

Number of staged intervals: 1

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 548

Fresh water used in treatment (bbl): 548

Disposition method for flowback: RECYCLE

Total proppant used (lbs): 22180

Rule 805 green completion techniques were utilized: ☐

Reason why green completion not utilized: PRESSURE

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 07/25/2012

Hours: 8

Bbl oil: 5

Mcf Gas: 0

Bbl H2O: 109

Calculated 24 hour rate:

Bbl oil: 15

Mcf Gas: 0

Bbl H2O: 327

GOR: 0

Test Method: Swabbing

Casing PSI:

Tubing PSI:

Choke Size:

Gas Disposition:

Gas Type:

Btu Gas: 0

API Gravity Oil: 42

Tubing Size: 2 + 7/8

Tubing Setting Depth: 5456

Tbg setting date: 07/12/2012

Packer Depth: 5425

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: TEMPORARILY ABANDONED Treatment Type: _____
Treatment Date: _____ End Date: _____ Date of First Production this formation: _____
Perforations Top: 5542 Bottom: 5552 No. Holes: 60 Hole size: 42/100
Provide a brief summary of the formation treatment: _____ Open Hole: ☐

CIBP was set at 5556' (above the original J sand perforations, 5563 to 5569). J sand was perforated from 5542 to 5552 and swabbed, but water cut was high and zone was uneconomic. A second CIBP was set at 5541', above the new perforations and above the J sand. Wireline reports for CIBP work are attached.

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: Water cut too high.

Date formation Abandoned: 07/10/2012 Squeeze: ☐ Yes ☒ No If yes, number of sacks cmt _____

** Bridge Plug Depth: 5541 ** Sacks cement on top: 0 ** Wireline and Cement Job Summary must be attached.

Comment:

After unsuccessful testing of the J sand, a CIBP was set over the J sand and the well was recompleted to the D sand in July 2012.

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: 1/21/2013 Email: sritger@ticdenver.com
:

Attachment Check List

Att Doc Num	Name
400368320	FORM 5A SUBMITTED
400372387	WIRELINE JOB SUMMARY
400372390	WIRELINE JOB SUMMARY

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	# of stages is one. Oper. submitted fluid density at initial fracture and min. frac gradient.	1/6/2014 1:43:53 PM
Permit	Req'd add'l info on frac of D sand and hole size for J sand.	12/30/2013 1:09:35 PM

Total: 2 comment(s)