FORM 5A Rev 06/12

State of Colorado
Oil and Gas Conservation Commission

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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
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Email: sritger@ticdenver.com

5. API Number 05-087-05286-00
6. County: MORGAN
7. Well Name: L Clar
Well Number: 4
8. Location: QtrQtr: NWSW Section: 13 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: 03/19/2013 End Date: 03/19/2013 Date of First Production this formation:

Perforations Top: 5653 Bottom: 5670 No. Holes: 68 Hole size: 41/100

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): 3218
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: 5716 Bottom: 5726 No. Holes: 31 Hole size: 0

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: 12/10/2012 Squeeze: ☐ Yes ☒ No If yes, number of sacks cmt

** Bridge Plug Depth: 5700 ** 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 251' 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: 3/21/2013 Email: sritger@ticdenver.com

Attachment Check List

Att Doc Num	Name
400383188	FORM 5A SUBMITTED
400394348	WIRELINE JOB SUMMARY
400394350	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)