

FORM 5A

Rev 06/12

State of Colorado Oil and Gas Conservation Commission

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Table with columns DE, ET, OE, ES

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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: 8960
2. Name of Operator: BONANZA CREEK ENERGY OPERATING COMPANY
3. Address: 410 17TH STREET SUITE #1400
City: DENVER State: CO Zip: 80202
4. Contact Name: Robert Tucker
Phone: (720) 440-6100
Fax:
Email: rtucker@bonanzacr.com

5. API Number 05-123-33728-00
6. County: WELD
7. Well Name: Antelope
Well Number: 31-17
8. Location: QtrQtr: NENE Section: 17 Township: 5N Range: 62W Meridian: 6
9. Field Name: WATTENBERG Field Code: 90750

Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION
Treatment Date: 09/17/2011 End Date: 09/17/2011 Date of First Production this formation: 09/29/2011
Perforations Top: 6770 Bottom: 6778 No. Holes: 32 Hole size: 4/10

Provide a brief summary of the formation treatment:

Open Hole: [ ]

Completed with plug and perf. Pumped a total of 3222 (bbl) of pHaser Frac fluid, 15% HCL acid, with 245000 #'s of 30/50 Ottawa sand.

Perfed: 6770-6778

This formation is commingled with another formation: [X] Yes [ ] No

Total fluid used in treatment (bbl): 3222 Max pressure during treatment (psi): 3067
Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.34
Type of gas used in treatment: Min frac gradient (psi/ft): 0.85
Total acid used in treatment (bbl): 12 Number of staged intervals: 1
Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 1126
Fresh water used in treatment (bbl): 3210 Disposition method for flowback: DISPOSAL
Total proppant used (lbs): 245000 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: NIOBRARA-CODELL Status: PRODUCING Treatment Type: \_\_\_\_\_

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

Perforations Top: 6518 Bottom: 6778 No. Holes: 80 Hole size: 4/10

Provide a brief summary of the formation treatment: \_\_\_\_\_ Open Hole:

Niobrara: 6518-6524, 6600-6612, 6666-6672  
Codell: 6770-6778

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: 11/21/2017 Hours: 24 Bbl oil: 1 Mcf Gas: 5 Bbl H2O: 1

Calculated 24 hour rate: Bbl oil: 1 Mcf Gas: 5 Bbl H2O: 1 GOR: 5000

Test Method: Flowing Casing PSI: 316 Tubing PSI: 273 Choke Size: 28/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1360 API Gravity Oil: 60

Tubing Size: 2 + 3/8 Tubing Setting Depth: 6674 Tbg setting date: 07/25/2013 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: NIOBRARA Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 09/17/2011 End Date: 09/17/2011 Date of First Production this formation: 09/29/2011

Perforations Top: 6518 Bottom: 6672 No. Holes: 48 Hole size: 4/10

Provide a brief summary of the formation treatment: Open Hole:

Completed with plug and perf. Pumped a total of 3339 (bbl) of pHaser Frac fluid, 15% HCL acid, with 260000 #'s of 30/50 Ottawa sand. Perfed: 6518-6524, 6600-6612, 6666-6672

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 3339 Max pressure during treatment (psi): 2834

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.34

Type of gas used in treatment: Min frac gradient (psi/ft): 0.86

Total acid used in treatment (bbl): 12 Number of staged intervals: 3

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 1126

Fresh water used in treatment (bbl): 3327 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 260000 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.

Comment:

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete. Signed: Robert Tucker Title: Engineering Tech Date: 10/15/2013 Email: rtucker@bonanzacrk.com

Attachment Check List

Table with 2 columns: Att Doc Num, Name. Rows: 400494490 FORM 5A SUBMITTED, 400495633 WELLBORE DIAGRAM

Total Attach: 2 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	<ul style="list-style-type: none"> <li>•Reason why green completion not utilized: Operator states there was no pipeline available at the time and Rule 805 green completion techniques were not utilized.</li> <li>•Added frac fluid type to formation treatment summary.</li> <li>•Corrected treatment method to Plug and Perf instead of sliding sleeves, per attached wellbore diagram (doc# 400495633).</li> <li>•Received concurrence from operator.</li> <li>•Per operator, on Niobrara-Codell panel removed treatment type, start date, end date, date of first production, fresh water used in treatment, total acid used in treatment, total fluid used in treatment, total proppant used in treatment, max pressure during treatment, fluid density at initial fracture, min frac gradient, number of staged intervals, flowback volume recovered, disposition method for flowback, and reason why green completion not utilized.</li> <li>•Operator states formations were not treated multiple times (i.e. independently and then again all at the same time, as the provided data implied).</li> <li>•Per operator, on Codell panel removed reason why green completion not utilized.</li> <li>•Per operator, on Niobrara panel removed reason why green completion not utilized.</li> </ul>	01/16/2018
Permit	<ul style="list-style-type: none"> <li>•Reason why green completion not utilized: Pipeline but operator states there was no pipeline available at the time.</li> <li>•Missing frac fluid types.</li> <li>•The provided data for the individual panels does not equal the summed data on the combined (Nio-Codell panel) for the treatment of the wellbore. Requested verification.</li> <li>•Corrected treatment method to Plug and Perf instead of sliding sleeves, per attached wellbore diagram. Requested verification.</li> <li>•Per operator, on Niobrara-Codell panel changed treatment start date, end date, perf/production interval top and bottom, response to commingled formation, fresh water used in treatment, total acid used in treatment, total fluid used in treatment, total proppant used in treatment, max pressure during treatment, fluid density at initial fracture, min frac gradient, number of staged intervals, flowback volume recovered, disposition method for flowback, reason why green completion not utilized, and summary of the formation treatment.</li> <li>•Per operator, on Niobrara-Codell panel changed test date, test hours, bbl oil, mcf gas, bbls H2O, calculated 24 hours rate of bbl oil, mcf gas, GOR, casing PSI, tubing PSI, choke size, btu gas, and API gravity oil.</li> <li>•Per operator, on Codell panel changed treatment start date, end date and summary of the formation treatment.</li> <li>•Per operator, on Niobrara panel changed treatment start date, end date, number of staged intervals, and summary of the formation treatment.</li> </ul>	01/09/2018

Total: 2 comment(s)