

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:

401533774

Date Received:

02/07/2018

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: <u>10672</u>	4. Contact Name: <u>Thomas M. Erwin</u>
2. Name of Operator: <u>TIMBER CREEK OPERATING LLC</u>	Phone: <u>(970) 769-0467</u>
3. Address: <u>1001 17TH STREET #1000</u>	Fax: <u>(719) 845-2100</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>	Email: <u>tomerwin@tcerwin.us</u>

5. API Number <u>05-071-08791-00</u>	6. County: <u>LAS ANIMAS</u>
7. Well Name: <u>APACHE CANYON</u>	Well Number: <u>2-4-68</u>
8. Location: QtrQtr: <u>NWNW</u> Section: <u>2</u> Township: <u>34S</u> Range: <u>68W</u> Meridian: <u>6</u>	
9. Field Name: <u>PURGATOIRE RIVER</u> Field Code: <u>70830</u>	

### Completed Interval

FORMATION: RATON-VERMEJO COALS Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 01/14/2018 End Date: 01/14/2018 Date of First Production this formation: 08/20/2006  
Perforations Top: 660 Bottom: 1828 No. Holes: 192 Hole size: 0.45

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

Perforated four Vermejo Coal intervals listed by stage with 4 SPF and 120 degree phasing and fraced the four Vermejo Coal intervals including Stage 1 - 1,812' - 16', 1,818' - 20' and 1,825' - 28', Stage 2 - 1,779' - 81', Stage 3 - 1,691' - 93', 1,703' - 06', 1,709' - 11' and 1,726' - 29' and Stage 4 - 1,587' - 96' and 1,622' - 24' (net - 32' or 128 holes) with Coil Tubing Unit, 2-7/8" coiled tubing to isolate stages and a 70/30 Quality foam frac. A total of 136,156 gallons of produced water, 153,122 lbs of 20/40 mesh Premium White Sand and 890,066 scf N2 were pumped. All four stages were fraced according to prognosis.

Perforated two Raton Coal intervals listed by stage with 4 SPF and 120 degree phasing and fraced the two Raton Coal intervals including Stage 5 - 725' - 728' and Stage 6 - 660' - 65' and 684' - 92' (net - 16' or 64 holes) with Coil Tubing Unit, 2-7/8" coiled tubing to isolate stages and a 70/30 Quality foam frac. A total of 78,557 gallons of produced water, 73,048 lbs 20/40 mesh Premium White Sand and 343,275 scf N2 were pumped. Both stages were fraced according to prognosis.

The CTU rigged down and moved to next location. Well was cleaned out to PBDT and returned to production as a commingled Raton-Vermejo well.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 5112 Max pressure during treatment (psi): 3098

Total gas used in treatment (mcf): 1233341 Fluid density at initial fracture (lbs/gal): 8.35

Type of gas used in treatment: NITROGEN Min frac gradient (psi/ft): 0.46

Total acid used in treatment (bbl): 0 Number of staged intervals: 6

Recycled water used in treatment (bbl): 5112 Flowback volume recovered (bbl):

Fresh water used in treatment (bbl): 0 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 226170 Rule 805 green completion techniques were utilized:

Reason why green completion not utilized:

**Fracture stimulations must be reported on FracFocus.org**

#### Test Information:

Date: 01/19/2018 Hours: 24 Bbl oil: 0 Mcf Gas: 0 Bbl H2O: 117

Calculated 24 hour rate: Bbl oil: 0 Mcf Gas: 0 Bbl H2O: 117 GOR: 0

Test Method: Pumping Casing PSI: 4 Tubing PSI: 3 Choke Size:

Gas Disposition: SOLD Gas Type: COAL GAS Btu Gas: 989 API Gravity Oil: 0

Tubing Size: 2 + 7/8 Tubing Setting Depth: 1844 Tbg setting date: 01/18/2018 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: Print Name: Thomas M. Erwin

Title: Engineering Manager Date: 2/7/2018 Email: tomerwin@tcenergy.us

## Attachment Check List

**Att Doc Num**

**Name**

401533774

FORM 5A SUBMITTED

Total Attach: 1 Files

### General Comments

**User Group**

**Comment**

**Comment Date**

Stamp Upon  
Approval

Total: 0 comment(s)