

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:

401533217

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

5. API Number 05-071-07418-00	6. County: LAS ANIMAS
7. Well Name: APACHE CANYON	Well Number: 11-10V
8. Location: QtrQtr: NWSE Section: 11 Township: 34S Range: 68W Meridian: 6	
9. Field Name: PURGATOIRE RIVER	Field Code: 70830

### Completed Interval

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

Treatment Date: 01/04/2018 End Date: 01/04/2018 Date of First Production this formation: 07/27/2010  
Perforations Top: 799 Bottom: 2230 No. Holes: 284 Hole size: 0.45

Provide a brief summary of the formation treatment:

Open Hole: ☐

Perforated three Vermejo Coal intervals listed by stage with 4 SPF and 120 degree phasing and fraced the three Vermejo Coal intervals including Stage 1 - 2,190' - 98', 2,210' - 12' and 2,222' - 30', Stage 2 - 2,002' - 07', 2,020' - 22', 2,025' - 29' and 2,033' - 36', Stage 3 - 1,944' - 46', 1,952' - 54', 1,960' - 68' and 1,970' - 78' (net - 52' or 208 holes) with Coil Tubing Unit, 2-7/8" coiled tubing to isolate stages and a 70/30 Quality foam frac. A total of 500 gallons of 15% HCl, 127,003 gallons produced water, 159,474 lbs of 20/40 mesh Premium White Sand and 1,024,978 scf N2 were pumped. Stage 2 screened out when 2.0 ppg sand concentration downhole hit the perforations.

Perforated two Raton Coal intervals including Stage 4 - 893' - 00' and Stage 5 - 799' - 01', 804' - 807', 822' - 24' and 829' - 834' (net - 19' or 76 holes) with Coil Tubing Unit, 2-7/8" coiled tubing to isolate stages and a 70/30 Quality foam frac. A total of 400 gallons of 15% HCl, 92,043 gallons of produced water, 129,252 lbs of 20/40 mesh Premium White Sand and 471,773 scf N@ were pumped.

The CTU was rigged down and moved to next location. Well was cleaned out to PBTD 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): 5233

Max pressure during treatment (psi): 3678

Total gas used in treatment (mcf): 1496751

Fluid density at initial fracture (lbs/gal): 8.35

Type of gas used in treatment: NITROGEN

Min frac gradient (psi/ft): 0.52

Total acid used in treatment (bbl): 21

Number of staged intervals: 5

Recycled water used in treatment (bbl): 5212

Flowback volume recovered (bbl):

Fresh water used in treatment (bbl): 0

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 288726

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

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

### Test Information:

Date: 01/22/2018 Hours: 24 Bbl oil: 0 Mcf Gas: 40 Bbl H2O: 0  
Calculated 24 hour rate: Bbl oil: 0 Mcf Gas: 40 Bbl H2O: 0 GOR: 0  
Test Method: Pumping Casing PSI: -10 Tubing PSI: 0 Choke Size:  
Gas Disposition: SOLD Gas Type: COAL GAS Btu Gas: 933 API Gravity Oil: 0  
Tubing Size: 2 + 7/8 Tubing Setting Depth: 2253 Tbg setting date: 01/25/2018 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

401533217 FORM 5A SUBMITTED

Total Attach: 1 Files

### General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)