



FORMATION: WILLIAMS FORK - CAMEO Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 02/16/2018 End Date: 02/24/2018 Date of First Production this formation: 03/07/2018

Perforations Top: 5014 Bottom: 7417 No. Holes: 339 Hole size: 0.37

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

William Fork is commingled with Iles

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: 2 + 3/8 Tubing Setting Depth: 6529 Tbg setting date: 03/08/2018 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.

FORMATION: WILLIAMS FK-ROLLINS-CAMEO Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 02/16/2018 End Date: 02/24/2018 Date of First Production this formation: 03/07/2018

Perforations Top: 5014 Bottom: 7526 No. Holes: 360 Hole size: 0.37

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

Williams Fork- Iles frac'd with 50,386 bbls Slurry, 70,444 bbls recycled water, 850,000 lbs 40/70 sand, 150,000 lbs resin

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 120830 Max pressure during treatment (psi): 3186

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.92

Type of gas used in treatment: Min frac gradient (psi/ft): 0.80

Total acid used in treatment (bbl): 0 Number of staged intervals: 8

Recycled water used in treatment (bbl): 70444 Flowback volume recovered (bbl): 16497

Fresh water used in treatment (bbl): 50386 Disposition method for flowback: RECYCLE

Total proppant used (lbs): 1000000 Rule 805 green completion techniques were utilized:

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 03/17/2018 Hours: 24 Bbl oil: 12 Mcf Gas: 1007 Bbl H2O: 1251

Calculated 24 hour rate: Bbl oil: 12 Mcf Gas: 1007 Bbl H2O: 1251 GOR: 83916

Test Method: Flowing Casing PSI: 401 Tubing PSI: 1165 Choke Size: 38/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1196 API Gravity Oil: 52

Tubing Size: 2 + 3/8 Tubing Setting Depth: 6529 Tbg setting date: 03/08/2018 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: Julie Webb

Title: Sr. Regulatory Analyst Date: 3/21/2018 Email: jwebb@progressivepcs.net

Attachment Check List

Table with 2 columns: Att Doc Num, Name. Row 1: 401568933, FORM 5A SUBMITTED

Total Attach: 1 Files

General Comments

Table with 3 columns: User Group, Comment, Comment Date. Row 1: Permit, Submit missing form 7 reporting from month of spud 12/2017-2/2018 and all Rollins production, 05/20/2020. Row 2: Permit, ILES needs broken out, Form 7 reporting missing 3 months and only repoting WMFK, emailed operator, 02/21/2020

Total: 2 comment(s)