



FORMATION: FORT HAYS Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 06/30/2018 End Date: 07/14/2018 Date of First Production this formation: 08/04/2018

Perforations Top: 8525 Bottom: 15445 No. Holes: 172 Hole size: 0.42

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

Completed Interval: 8,525' - 8,679'; 9,450' - 9,660'; 10,556' - 10,730'; 12,086' - 12,856; 15,250; - 15,445'

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: \_\_\_\_\_

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-FT HAYS-CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 06/30/2018 End Date: 07/14/2018 Date of First Production this formation: 08/04/2018

Perforations Top: 7914 Bottom: 17206 No. Holes: 1601 Hole size: 0.42

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

40 stages, 3,281,580 lbs 100Mesh white sand, 5,572,540 lbs 30/50 mesh regional sand, 1,136,380 lbs 30/50 white sand, 224,996 bbls Slickwater, 20,300 gal 15% concentration HCL acid.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 225479 Max pressure during treatment (psi): 8251

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

Type of gas used in treatment: \_\_\_\_\_ Min frac gradient (psi/ft): 80.90

Total acid used in treatment (bbl): 483 Number of staged intervals: 40

Recycled water used in treatment (bbl): \_\_\_\_\_ Flowback volume recovered (bbl): 21769

Fresh water used in treatment (bbl): 224996 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 9990500 Rule 805 green completion techniques were utilized:

Reason why green completion not utilized: PIPELINE

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

**Test Information:**

Date: 08/01/2018 Hours: 24 Bbl oil: 258 Mcf Gas: 162 Bbl H2O: 1084

Calculated 24 hour rate: Bbl oil: 258 Mcf Gas: 162 Bbl H2O: 1084 GOR: 628

Test Method: Flowback Casing PSI: 0 Tubing PSI: 740 Choke Size: 20/64

Gas Disposition: FLARED Gas Type: DRY Btu Gas: 1475 API Gravity Oil: 40

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7511 Tbg setting date: 07/27/2018 Packer Depth: 7498

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: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 06/30/2018 End Date: 07/14/2018 Date of First Production this formation: 08/04/2018

Perforations Top: 8219 Bottom: 8509 No. Holes: 50 Hole size: 0.42

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

Completed Interval: 8,219' - 8,509'

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: \_\_\_\_\_

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: Carolyn Nunez

Title: Drilling Eng Tech Date: 5/29/2020 Email: cnunez@enerplus.com

**Attachment List**

Att Doc Num	Name
401745431	FORM 5A SUBMITTED
401748454	WELLBORE DIAGRAM

Total Attach: 2 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Pass.	11/18/2020
Permit	Production reporting missing 4/1/2018, 5/1/2018, 8/2019, 6/2020. Corrected status on production reporting. Number of July 2018 days still suspect. Corrected joint formation panel name. Incorrect choke size. Corrected GOR and choke size per operator.	10/13/2020
Engineer	Form 7 for March '18 - spud date in April - conductor may have been set in March - missing April and May 2018; August 2019 - perforations for each formation need review and stimulaion details are identical in each panel - refer to guidance	04/16/2020
Engineer	rt'd to DRAFT for possible correction (Form 5 incomplete) rt'd back to DRAFT - Tubing setting depth is 387' above the packer – is that correct for the Sligo? Actually those depths differ across the panels.  Form 7 not back to spud Form 7 shows 31 days PR July 2018 – 5A says treatment started 6/30 and ended 7/17/18 – do not typically see wells produce until after flowback.	05/02/2019
Permit	Referred for enforcement.	04/02/2019

Total: 5 comment(s)