



FORMATION: NIOBRARA-CODELL Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 09/26/2019 End Date: 09/26/2019 Date of First Production this formation: 10/30/2019

Perforations Top: 7430 Bottom: 7624 No. Holes: 96 Hole size: 7/10

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

Performed 2 Stage Frac. Total Fluid Used: 11,084 bbls. Total Proppant Used: 514,280 lbs. Max Pressure 6,146 psi. Total Acid Used: 24 bbl 15% HCl.
Perforations from 7,430'-7,442' (24 holes, 0.7" Diameter), 7,495'-7,507' (24 holes, 0.7" Diameter) w/ 5,703 bbls Slickwater & 264,340 lbs 30/50 Sand.
Perforations from 7,612'-7,624' (48 holes, 0.34" Diameter), w/ 5,381 bbls Slickwater & 249,940 lbs 30/50 Sand.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 11108 Max pressure during treatment (psi): 6146

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal): 8.33

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

Total acid used in treatment (bbl): 24 Number of staged intervals: 2

Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 2629

Fresh water used in treatment (bbl): 11084 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 514280 Rule 805 green completion techniques were utilized:

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 11/06/2019 Hours: 24 Bbl oil: 14 Mcf Gas: 5 Bbl H2O: 12

Calculated 24 hour rate: Bbl oil: 14 Mcf Gas: 5 Bbl H2O: 12 GOR: 357

Test Method: SWAB Casing PSI: 507 Tubing PSI: 0 Choke Size: 64/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1306 API Gravity Oil: 36

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7433 Tbg setting date: 11/07/2019 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: 09/26/2019 End Date: 09/26/2019 Date of First Production this formation: 11/07/2019

Perforations Top: 7430 Bottom: 7507 No. Holes: 48 Hole size: 7/10

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

Frac Nio w/ 5,703 bbls Slickwater (clean), 6,042 bbls Slurry, & 264,340 lbs 30/50 Sand. Perforations from 7,430'-7,442' (24 holes) and 7,495'-7,507' (24 holes).

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 5703 Max pressure during treatment (psi): 5323

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal): 8.33

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

Total acid used in treatment (bbl): Number of staged intervals: 1

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

Fresh water used in treatment (bbl): 5703 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 264340 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:

GOR reported is 357 scf/bbl or 0.36 mcf/bbl. The stated footages for the TPZ are 479' FNL and 599' FWL of Section 3 - T1S - R65W, MD 7,430', TVD 7,308', this has changed from what was reported on the Form 5. The stated footages for the BHL have not changed from what was reported on the Form 5.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: Print Name: SEAN DOLFINGER Title: ENGINEERING TECH. Date: 12/9/2019 Email sean.dolfinger@iptenergyservices.com

Attachment Check List

Table with 2 columns: Att Doc Num, Name. Rows: 402252284 FORM 5A SUBMITTED, 402255323 WELLBORE DIAGRAM, 402257472 OPERATIONS SUMMARY

Total Attach: 3 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Corrected Total Fluid Used in Treatment field. Permitting review complete.	12/16/2019
Permit	Total Fluid Used in Treatment does not include the bbl of Acid. Emailed operator.	12/13/2019

Total: 2 comment(s)