

FORMATION: CARLILE-CODELL-FORT HAYS Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 12/06/2014 End Date: 12/07/2014 Date of First Production this formation: 01/24/2015

Perforations Top: 7714 Bottom: 11748 No. Holes: _____ Hole size: _____

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

18 Stage Sliding Sleeve, Swell Packer set @ 7,714'

Total Fluid: 92,575 bbls
 Gel Fluid: 74,689 bbls
 Slickwater Fluid: 17,886 bbls
 Total Proppant: 4,536,923 lbs
 Silica Proppant: 4,536,923 lbs
 Method for determining flowback: measuring flowback tank volumes.

This formation is commingled with another formation: Yes No

Total fluid used in treatment (bbl): 92575 Max pressure during treatment (psi): 4722

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): 0.95

Total acid used in treatment (bbl): _____ Number of staged intervals: 18

Recycled water used in treatment (bbl): _____ Flowback volume recovered (bbl): 1078

Fresh water used in treatment (bbl): 92575 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 4536923 Rule 805 green completion techniques were utilized:

Reason why green completion not utilized: _____

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 02/02/2015 Hours: 24 Bbl oil: 107 Mcf Gas: 1598 Bbl H2O: 33

Calculated 24 hour rate: Bbl oil: 107 Mcf Gas: 1598 Bbl H2O: 33 GOR: 14934

Test Method: Flowing Casing PSI: 1751 Tubing PSI: 1563 Choke Size: 20/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1235 API Gravity Oil: 65

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7219 Tbg setting date: 12/16/2014 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: CODELL Status: COMMINGLED Treatment Type: _____

Treatment Date: _____ End Date: _____ Date of First Production this formation: _____

Perforations Top: 8627 Bottom: 11748 No. Holes: _____ Hole size: _____

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

Completed Depths: 8,627'-10,209' 10,362'-10,458' 10,976'-11,748'

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: FORT HAYS Status: COMMINGLED Treatment Type: _____
 Treatment Date: _____ End Date: _____ Date of First Production this formation: _____
 Perforations Top: 7714 Bottom: 10976 No. Holes: _____ Hole size: _____
 Provide a brief summary of the formation treatment: _____ Open Hole:

Completed Depths: 7,714'-8,627' 10,458'-10,976'

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: Cassie Gonzalez
 Title: Regulatory Technician Date: _____ Email: Cassie.Gonzalez@pdce.com

Attachment Check List

Att Doc Num	Name

Total Attach: 0 Files

General Comments

User Group	Comment	Comment Date
Permit	Returned to Draft for: - Ft Hayes AND combined formation panels list top as "7714", but the Ft Hays panel lists "Completed Depths: 7,298'-8,627".	06/03/2019
Permit	Returned to draft for AOC settlement.	09/15/2016

Total: 2 comment(s)