



FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 01/11/2015 End Date: 01/16/2015 Date of First Production this formation: 04/09/2015

Perforations Top: 9683 Bottom: 13523 No. Holes: 405 Hole size: 0.38

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

Stages 5-7, 15-17, and 22-30 treated with 28,910 bbls of total fluids, 378 bbls of additives, 24 bbls of acid 15%, and 3,946,542 lbs of 40/70 Sand Proppant

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 28910 Max pressure during treatment (psi): 8009

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.30

Type of gas used in treatment: Min frac gradient (psi/ft): 0.44

Total acid used in treatment (bbl): 9 Number of staged intervals: 15

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 130

Fresh water used in treatment (bbl): 28763 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 1443857 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: FRACTURE STIMULATION

Treatment Date: 01/11/2015 End Date: 01/16/2015 Date of First Production this formation: 04/09/2015

Perforations Top: 11299 Bottom: 13068 No. Holes: 243 Hole size: 0.38

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

Stages 8-14 and 18-19 treated with 17,346 bbls of total fluids, 83 bbls of additives, 5 bbls of acid 15%, and 866,314 lbs of 40/70 Sand Proppant

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 17346 Max pressure during treatment (psi): 8710

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.30

Type of gas used in treatment: Min frac gradient (psi/ft): 0.77

Total acid used in treatment (bbl): 5 Number of staged intervals: 9

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 78

Fresh water used in treatment (bbl): 17341 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 866314 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 Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 01/14/2015 End Date: 01/14/2015 Date of First Production this formation: 04/09/2015

Perforations Top: 11046 Bottom: 11250 No. Holes: 54 Hole size: 0.38

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

Stages 20 - 21 treated with 3,855 bbls of total fluids, 18 bbls of additives, 1 bbl of acid 15%, and 192,514 lbs of 40/70 Sand Proppant

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 3855 Max pressure during treatment (psi): 7804

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.30

Type of gas used in treatment: Min frac gradient (psi/ft): 0.87

Total acid used in treatment (bbl): 1 Number of staged intervals: 2

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 17

Fresh water used in treatment (bbl): 3853 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 192514 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-FORT HAYS-CODELL-CARLILE Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 01/10/2015 End Date: 01/17/2015 Date of First Production this formation: 04/09/2015  
Perforations Top: 7966 Bottom: 14127 No. Holes: 1083 Hole size: 0.38

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

Stages 1 - 41 treated with 79,020 bbls of total fluids, 378 bbls of additives, 24 bbls of acid 15%, and 3,946,542 lbs of 40/70 Sand Proppant

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 79020 Max pressure during treatment (psi): 8710

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.30

Type of gas used in treatment: Min frac gradient (psi/ft): 0.44

Total acid used in treatment (bbl): 24 Number of staged intervals: 41

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 354

Fresh water used in treatment (bbl): 78996 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 3946542 Rule 805 green completion techniques were utilized:

Reason why green completion not utilized:

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

**Test Information:**

Date: 04/18/2015 Hours: 24 Bbl oil: 313 Mcf Gas: 1022 Bbl H2O: 0

Calculated 24 hour rate: Bbl oil: 313 Mcf Gas: 1022 Bbl H2O: 0 GOR: 3265

Test Method: Flows from well Casing PSI: 2499 Tubing PSI: 1710 Choke Size: 0

Gas Disposition: SOLD Gas Type: DRY Btu Gas: 1298 API Gravity Oil: 50

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7367 Tbg setting date: 03/20/2015 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:**

The Niobrara formation was treated on 1/14/15. The perforation interval for this formation is 11,046 - 11,250. The Fort Hays formation was treated from 1/11/15 - 1/13/15 and on 1/16/15. The perforation intervals for this formation are 11,299 - 11,550 and 12,008 - 13,068. The Codell formation was treated on 1/11/15 and 1/13/15 - 1/16/15. The perforation intervals for this formation are 9,683 - 10,998, 11,605 - 11,953 and 13,114 - 13,523. The Carlile formation was treated from 1/10/15 - 1/11/15 and 1/16/15 - 1/17/15. The perforation intervals for this formation are 7,966 - 9,634 and 13,568 - 14,127.

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

Signed: Print Name: Erin Lind

Title: Regulatory Analyst Date: Email erin.lind@encana.com

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Att Doc Num	Name
400835708	WELLBORE DIAGRAM

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