

FORM
5A

Rev
06/12

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

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Date Received:

COMPLETED INTERVAL REPORT

The completed interval Report, Form 5A, shall be submitted within thirty (30) days of completing a formation (successful or not), when a formation is temporarily abandoned or permanently abandoned, for a recompletion, reperforation or restimulation, or when a formation is commingled. Fill out a section for each formation. Attach as many pages as required to fully describe the work. List in order of completion.

1. OGCC Operator Number: 100322

2. Name of Operator: NOBLE ENERGY INC

3. Address: 1001 NOBLE ENERGY WAY

City: HOUSTON State: TX Zip: 77070

4. Contact Name: Holly Hill

Phone: (303) 228-4232

Fax:

Email: Denverregulatory@nblenergy.com

5. API Number 05-123-44840-00

7. Well Name: Waste Management

8. Location: QtrQtr: NENE Section: 11 Township: 2N Range: 64W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: Y23-712

Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 07/19/2018 End Date: 08/04/2018 Date of First Production this formation: 09/11/2018

Perforations Top: 9830 Bottom: 19479 No. Holes: 1196 Hole size: 0.42

Provide a brief summary of the formation treatment:

Open Hole: ☐

Codell Intervals: 9830-12052, 12585-13709, 13885-19479

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: FRACTURE STIMULATION

Treatment Date: 07/19/2018 End Date: 08/04/2018 Date of First Production this formation: 09/11/2018

Perforations Top: 7485 Bottom: 13853 No. Holes: 396 Hole size: 0.42

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

Fort Hays Intervals: 7485-9183, 9271-9804, 12081-12555, 13739-13853

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: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 07/19/2018 End Date: 08/04/2018 Date of First Production this formation: 09/11/2018

Perforations Top: 7295 Bottom: 19479 No. Holes: 1628 Hole size: 0.42

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

Niobrara, Fort Hays, Codell completed with 464,292 bbls slurry, 748 bbls 28% HCl, 2,132,144 lbs 100 mesh, 21,334,233 lbs 40/70 sand

This formation is commingled with another formation: ☐ Yes ☒ No

Total fluid used in treatment (bbl): 465040

Max pressure during treatment (psi): 8528

Total gas used in treatment (mcf):

Fluid density at initial fracture (lbs/gal): 8.43

Type of gas used in treatment:

Min frac gradient (psi/ft): 0.93

Total acid used in treatment (bbl): 748

Number of staged intervals: 52

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 3702

Fresh water used in treatment (bbl): 464292

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 23466377

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 09/18/2018 Hours: 24 Bbl oil: 164 Mcf Gas: 162 Bbl H2O: 704

Calculated 24 hour rate: Bbl oil: 164 Mcf Gas: 162 Bbl H2O: 704 GOR: 988

Test Method: Flowing Casing PSI: 36 Tubing PSI: 1795 Choke Size: 14/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 996 API Gravity Oil: 46

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7130 Tbg setting date: 08/30/2018 Packer Depth: 7135

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: 07/19/2018 End Date: 08/04/2018 Date of First Production this formation: 09/11/2018

Perforations Top: 7295 Bottom: 9242 No. Holes: 36 Hole size: 0.42

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

Niobrara Intervals: 7295-7467, 9212-9242

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:

Actual TPZ is 554' FNL 96' FEL

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: Email Julie.webb@nblenergy.com

Attachment Check List

Att Doc Num Name

Total Attach: 0 Files

General Comments

User Group Comment Comment Date

Stamp Upon Approval

Total: 0 comment(s)