

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:

400818812

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: 69175

2. Name of Operator: PDC ENERGY INC

3. Address: 1775 SHERMAN STREET - STE 3000

City: DENVER State: CO Zip: 80203

4. Contact Name: Jenifer Hakkarinen

Phone: (303) 8605800

Fax:

Email: Jenifer.Hakkarinen@pdce.com

5. API Number 05-123-25170-00

7. Well Name: Weideman

8. Location: QtrQtr: nenw Section: 21 Township: 5n Range: 67w Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 21-21U

Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 11/09/2012 End Date: 11/09/2012 Date of First Production this formation:

Perforations Top: 7202 Bottom: 7210 No. Holes: 24 Hole size: 4/10

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

Codell : MIRU HES. Well took 0 bbls to load. (Break 3892 psi @ 5.0 BPM) Pumped 119 bbls of Active pad, 477 bbl of slickwater pad, 148 bbls of 26# pHaser pad, 286 bbls of 1.0 ppg 20/40 slurry with 26# pHaser, 476 bbls of 2.0 ppg 20/40 slurry with 26# pHaser, 643 bbls of 3.0 ppg 20/40 slurry with 26# pHaser, 371 bbls of 4.0 ppg 20/40 slurry with 26# pHaser, 101 bbls of 4.0 ppg 20/40 SBXL slurry with 26# pHaser, Flush to top Codell perf (114.9) bbl. Shutdown (ISDP 3167 psi) (FG .872) Fluid contained the following chemicals: .30 gpt be-7, .6 gpt CL-23, .5 gpt BA-20, 1.5 gpt GasPerm 1100, FR-66 @ 1 gpt .25 gpt Cla-web, 3.0 - 5.0 gpt Vicon NF, 0.25 - .75 gpt CAT 3, 6.0 gpt WG-18 @ 26 ppt, Losurf-100, (217,400 lbs Preferred Rock 20/40) (8,100 lbs SBXL 20/40). RD HES. MTP = 3278 psi, ATP = 2947 psi, AIR = 18.7 bpm. Pressure response was slightly positive for entire treatment.

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

Total fluid used in treatment (bbl): 2796

Max pressure during treatment (psi): 3278

Total gas used in treatment (mcf):

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): 73

Number of staged intervals: 12

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl):

Fresh water used in treatment (bbl): 2796

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 8100

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: J SAND Status: ABANDONED Treatment Type: _____
WELLBORE/COMPLETION

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

Perforations Top: 7674 Bottom: 7686 No. Holes: 24 Hole size: _____

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

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: 11/02/2012 Squeeze: ☐ Yes ☒ No If yes, number of sacks cmt _____

** Bridge Plug Depth: 7600 ** Sacks cement on top: 2 ** Wireline and Cement Job Summary must be attached.

FORMATION: NIOBRARA-CODELL Status: PRODUCING Treatment Type: _____

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

Perforations Top: 6886 Bottom: 7210 No. Holes: 52 Hole size: _____

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

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): 84

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: 02/16/2013 Hours: 24 Bbl oil: 38 Mcf Gas: 107 Bbl H2O: 3

Calculated 24 hour rate: Bbl oil: 38 Mcf Gas: 107 Bbl H2O: 3 GOR: 28

Test Method: Flowing Casing PSI: 940 Tubing PSI: 745 Choke Size: 16/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1229 API Gravity Oil: 36

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7174 Tbg setting date: 01/21/2013 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: 11/09/2012 End Date: 11/09/2012 Date of First Production this formation:

Perforations Top: 6886 Bottom: 7013 No. Holes: 28 Hole size: 4/10

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

"Niobrara Hybrid: RIH with PSI wireline using High pressure control unit and grease head. Set RMOR Cast Iron Flowthru 10k frac plug @ 7,120' with a Baker #10. Dual fire 3 1/8" slick gun and EXT charges (22.7 gram, .42 entry hole, 35.1" penetration, 120 degree phasing). Niobrara "B" Bench @ 7,005'-7,013' (3 SPF) Niobrara "A" Bench @ 6,886' - 6,888' (2 SPF) (28 New holes). POOH and RDMO PSI Wireline.

MIRU HES. Well was loaded @ open. (Break 4565 psi @ 2.5 BPM) Pumped 119 bbl active pad, Pumped 1299 bbls of Slickwater pad, 147 bbls of 20# pHaser pad, 167 bbls of 1.0 ppg 20/40 slurry with 20# pHaser, 783 bbls of 2.0 ppg 20/40 slurry with 20# pHaser, 833 bbls of 3.0 ppg 20/40 slurry with 20# pHaser, 424 bbls of 4.0 ppg 20/40 slurry with 20# pHaser, 91 bbls of 4.0 ppg SB Excel 20/40 slurry with 20# pHaser. Flushed well to top of "B" bench (111.7 bbls) Shutdown (ISDP - 3112 psi) (FG .88). Fluid contained the following chemicals: .30 gpt be-7, .6 gpt CL-23, 1.0 gpt BA-20, 2.0 gpt GasPerm 1100, 1.25 gpt Clayfix III, 0.5 - 3.0 gpt Vicon NF, 0.15 - .75 gpt CAT 3, 2.0 gpt FR-66, 22 ppt WG-18 1.0 gpt Losurf-100 (238,380 lbs 20/40 Preferred Rock) (12,500 20/40 SB Excel. RD HES. MTP = 4,927 psi, ATP = 4,040 psi, AIR = 42.0 bpm. Pressure response was flat for entire treatment. "

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

Total fluid used in treatment (bbl): 7726 Max pressure during treatment (psi): 4927

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

Type of gas used in treatment: Min frac gradient (psi/ft): 0.88

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): 7726 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 250880 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: Jenifer Hakkarinen

Title: Regulatory Tech Date: Email: Jenifer.Hakkarinen@pdce.com

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Attachment Check List

Att Doc Num

Name

401216518

WIRELINE JOB SUMMARY

Total Attach: 1 Files

General Comments

User Group

Comment

Comment Date

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Stamp Upon Approval

Total: 0 comment(s)