

FORM
5A

Rev
09/20

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: 69175

2. Name of Operator: PDC ENERGY INC

3. Address: 1775 SHERMAN STREET - STE 3000

City: DENVER State: CO Zip: 80203

4. Contact Name: Valerie Danson

Phone: (970) 506-9272

Fax: _____

Email: valerie.danson@pdce.com

5. API Number 05-123-26164-00

7. Well Name: GUTTERSEN

8. Location: QtrQtr: NESE Section: 6 Township: 3N Range: 63W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 43-6

Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type: _____
Treatment Date: _____ End Date: _____ Date this Formation was Completed: 11/07/2007
Perforations Top: 6855 Bottom: 6864 No. Holes: 40 Hole size: 41/100 Open Hole: ☐

Describe the Formation Treatment, including the following: type of fluid used (gel, slickwater, etc.), type and concentration of acid used (HCl, HF, etc.), types and amounts of proppant(s) used, depth details of multiple zones, and method used to determine flowback volume.

June 2012 Codell re-frac info: re-perforated Codell 6,855'-6,863', 3 spf (24 new holes added). Re-frac 'd Codell with 120 bbls of FE-1A pad, 595 bbls of 26# pHaser pad, 191 bbls of 1.0 ppg 20/40 slurry with 26# pHaser, 524 bbls of 2.0 ppg 20/40 slurry with 26# pHaser, 929 bbls of 3.0 ppg 20/40 slurry with 26# pHaser, 281 bbls of 4.0 ppg 20/40 slurry with 26# pHaser, 75 bbls of 4.0 ppg SB Excel slurry with 26# pHaser. Flushed well to top of the Codell perf (39.9 bbls) Shutdown (ISIP 3675 psi) (FG 1.00) Fluid contained the following chemicals: .30 gpt be-7, .6 gpt CL-23, .5 gpt BA-20, 1.5 gpt GasPerm 1100, .5 gpt Cla-web, 3.0 - 5.0 gpt Vicon NF, 0.25 - .75 gpt CAT 3, 6.0 gpt LG-6 1.0 gpt Losurf-100, FE-1A @ 20 gpt (216.960 lbs Ottawa 20/40) (8000 lbs 20/40 SB Excel). RD HES. MTP = 6346 psi, ATP = 5324 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): _____ 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 or Reused Fluids used in treatment (bbl): _____ Flowback volume recovered (bbl): _____
Fresh water used in treatment (bbl): _____ Disposition method for flowback: _____
Total proppant used (lbs): _____

Fracture stimulations must be reported on FracFocus.org

Test Information:

Hours: _____ Bbl oil: _____ Mcf Gas: _____ Bbl H2O: _____
Date: _____ 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-CODELL Status: SHUT IN Treatment Type: _____
Treatment Date: _____ End Date: _____ Date this Formation was Completed: 11/07/2007
Perforations Top: 6597 Bottom: 6864 No. Holes: 76 Hole size: 41/100 Open Hole: ☐

Describe the Formation Treatment, including the following: type of fluid used (gel, slickwater, etc.), type and concentration of acid used (HCl, HF, etc.), types and amounts of proppant(s) used, depth details of multiple zones, and method used to determine flowback volume.

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 or Reused Fluids used in treatment (bbl): _____ Flowback volume recovered (bbl): _____
Fresh water used in treatment (bbl): _____ Disposition method for flowback: _____
Total proppant used (lbs): _____

Fracture stimulations must be reported on FracFocus.org

Test Information:

_____ Hours: _____ Bbl oil: _____ Mcf Gas: _____ Bbl H2O: _____
Date 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: _____
 Treatment Date: _____ End Date: _____ Date this Formation was Completed: 11/07/2007
 Perforations Top: 6597 Bottom: 6660 No. Holes: 36 Hole size: 41/100 Open Hole: ☐
 Describe the Formation Treatment, including the following: type of fluid used (gel, slickwater, etc.), type and concentration of acid used (HCl, HF, etc.), types and amounts of proppant(s) used, depth details of multiple zones, and method used to determine flowback volume.

July 2012 Niobrara Re-Frac info: New perfs at Nio "A" 6,597' – 6,599' (2 spf) and Re-Perf Nio "B" 6,648' – 6,656' (3 spf) (28 new holes added). Re-frac'd Niobrara with 777 bbls of Slickwater pad, 738 bbls of 24# pHaser pad, 168 bbls of 1.0 ppg 20/40 slurry with 24# pHaser, saw slight pressure increase when 1# hit formation, 192 bbls of 2.0 ppg 20/40 slurry with 24# pHaser, when 2# hit formation pressure spiked to 5500 psi @ 44.2 bpm, drop rate to 17 bpm, pressure @ 5200, climbed almost immediately back to 5500, cut screws, unable to pump, well pressure remained between 5400 and 5500. Hooked up to flow back, attempted to flow back bottoms up, recovered only 74 bbls, attempted to flush, pumped away only 62 bbls, screened out. Shutdown (ISDP 5518 psi) (FG 1.27). Total proppant into formation 19,645 lbs, left 3588 lbs in well bore. Fluid contained the following chemicals: .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, (23,233 lbs 20/40 Preferred Rock) (0 20/40 SB Excel. RD HES. MTP = 5653 psi, ATP = 5171 psi, AIR = 29.4 bpm.

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 or Reused Fluids used in treatment (bbl): _____ Flowback volume recovered (bbl): _____
 Fresh water used in treatment (bbl): _____ Disposition method for flowback: _____
 Total proppant used (lbs): _____

Fracture stimulations must be reported on FracFocus.org

Test Information:

Hours: _____ Bbl oil: _____ Mcf Gas: _____ Bbl H2O: _____
 Date: _____ 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:

This form is being submitted to correct perforation depths and number of holes on the scout card, prior to P&A. Permitting request. There was a Niobrara and Codell re-frac in 2012 that unfortunately never was reported.

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

Signed: _____ Print Name: Valerie Danson
 Title: Reg Analyst Date: _____ Email: valerie.danson@pdce.com

Attachment List

Att Doc Num Name

403053704 OPERATIONS SUMMARY

Total Attach: 1 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Emailed Operator for Treatment info - sending back to draft	06/13/2022

Total: 1 comment(s)