

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:
403053673

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.

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| 1. OGCC Operator Number: <u>69175</u> | 4. Contact Name: <u>Valerie Danson</u> |
| 2. Name of Operator: <u>PDC ENERGY INC</u> | Phone: <u>(970) 506-9272</u> |
| 3. Address: <u>1775 SHERMAN STREET - STE 3000</u> | Fax: _____ |
| City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u> | Email: <u>valerie.danson@pdce.com</u> |

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|---|--------------------------|
| 5. API Number <u>05-123-26164-00</u> | 6. County: <u>WELD</u> |
| 7. Well Name: <u>GUTTERSEN</u> | Well Number: <u>43-6</u> |
| 8. Location: QtrQtr: <u>NESE</u> Section: <u>6</u> Township: <u>3N</u> Range: <u>63W</u> Meridian: <u>6</u> | |
| 9. Field Name: <u>WATTENBERG</u> | Field Code: <u>90750</u> |

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: _____

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-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: _____

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: NIORBARA 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: _____

Estimated 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)