

**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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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: <u>69175</u>	4. Contact Name: <u>Ally Ota</u>
2. Name of Operator: <u>PDC ENERGY INC</u>	Phone: <u>(303) 860-5800</u>
3. Address: <u>1775 SHERMAN STREET - STE 3000</u>	Fax: <u>(303) 831-3988</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>	Email: <u>alexandria.ota@pdce.com</u>

5. API Number <u>05-123-44583-00</u>	6. County: <u>WELD</u>
7. Well Name: <u>Fern</u>	Well Number: <u>11W-214</u>
8. Location: QtrQtr: <u>NWNW</u> Section: <u>11</u> Township: <u>5N</u> Range: <u>65W</u> Meridian: <u>6</u>	
9. Field Name: <u>WATTENBERG</u> Field Code: <u>90750</u>	

Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 11/25/2018 End Date: 12/08/2018 Date of First Production this formation: 01/10/2019
Perforations Top: 7363 Bottom: 15162 No. Holes: 1554 Hole size: 42/100

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

44 Stage Plug and Perf
Total Fluid: 186,274 bbls
Slickwater Fluid: 185,086 bbls
15% HCl Acid: 1,188 bbls
Total Proppant: 8,515,400 lbs
Silica Proppant: 8,515,400 lbs
Method for determining flowback: measuring flowback tank volumes.

This formation is commingled with another formation: Yes No
Total fluid used in treatment (bbl): 186274 Max pressure during treatment (psi): 4800
Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal): 8.34
Type of gas used in treatment: Min frac gradient (psi/ft): 0.95
Total acid used in treatment (bbl): 1188 Number of staged intervals: 44
Recycled water used in treatment (bbl): Flowback volume recovered (bbl): 9935
Fresh water used in treatment (bbl): 185086 Disposition method for flowback: DISPOSAL
Total proppant used (lbs): 8515400 Rule 805 green completion techniques were utilized:
Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 01/19/2019 Hours: 24 Bbl oil: 382 Mcf Gas: 1267 Bbl H2O: 223
Calculated 24 hour rate: Bbl oil: 382 Mcf Gas: 1267 Bbl H2O: 223 GOR: 3317
Test Method: Flowing Casing PSI: 2790 Tubing PSI: 1868 Choke Size: 16/64
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1285 API Gravity Oil: 51
Tubing Size: 2 + 3/8 Tubing Setting Depth: 7190 Tbg setting date: 01/06/2019 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 Top of Productive Zone Footage: 2,356' FNL & 25' FEL Sec: 10 Twp: 5N Rng: 65W

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.
Signed: Print Name: Cassie Gonzalez
Title: Regulatory Technician Date: 2/5/2019 Email: Cassie.Gonzalez@pdce.com

Attachment Check List

Att Doc Num	Name
401930464	COMPLETED INTERVAL REPORT
402120053	FORM 5A SUBMITTED

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)