

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:

400499716

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: Cassie Gonzalez

Phone: (303) 860-5800

Fax:

Email: Cassie.Gonzalez@pdce.com

5. API Number 05-123-36961-00

7. Well Name: Waste Management

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

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 2T-401

Completed Interval

FORMATION: CODELL-FORT HAYS		Status: PRODUCING		Treatment Type: FRACTURE STIMULATION	
Treatment Date: 10/26/2013		End Date: 10/27/2013		Date of First Production this formation: 11/07/2013	
Perforations	Top: 7373	Bottom: 11385	No. Holes:	Hole size:	

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

16 Stage Sliding Sleeve, Swell Packer set at 7,373'
 Total Fluid: 59,346 bbls
 Gel Fluid: 47,308 bbls
 Slickwater Fluid: 12,038 bbls
 Total Proppant: 3,674,460 lbs
 Silica Proppant: 3,674,460 lbs
 Method for determining flowback: measuring flowback tank volumes.

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

Total fluid used in treatment (bbl): 59346	Max pressure during treatment (psi): 3975
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): 0.97
Total acid used in treatment (bbl): _____	Number of staged intervals: 16
Recycled water used in treatment (bbl): _____	Flowback volume recovered (bbl): 7445
Fresh water used in treatment (bbl): 59346	Disposition method for flowback: DISPOSAL
Total proppant used (lbs): 3674460	Rule 805 green completion techniques were utilized: <input checked="" type="checkbox"/>

Reason why green completion not utilized: _____

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 11/30/2013	Hours: 24	Bbl oil: 295	Mcf Gas: 320	Bbl H2O: 187
Calculated 24 hour rate:	Bbl oil: 295	Mcf Gas: 320	Bbl H2O: 187	GOR: 1085
Test Method: Flowing	Casing PSI: 1966	Tubing PSI: 714	Choke Size: 16/64	
Gas Disposition: SOLD	Gas Type: WET	Btu Gas: 1368	API Gravity Oil: 45	
Tubing Size: 2 + 3/8	Tubing Setting Depth: 7011	Tbg setting date: 11/04/2013	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: CODELL		Status: COMMINGLED		Treatment Type: _____	
Treatment Date: _____		End Date: _____		Date of First Production this formation: _____	
Perforations	Top: 7927	Bottom: 11385	No. Holes: _____	Hole size: _____	
Provide a brief summary of the formation treatment:			Open Hole: <input checked="" type="checkbox"/>		
Completed Depths: 7,927'-9,621' 10,753'-11,385'					
This formation is commingled with another formation:			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: <input type="checkbox"/>			
Reason why green completion not utilized: _____					
Fracture stimulations must be reported on FracFocus.org					
<u>Test Information:</u>					
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: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>					
Date formation Abandoned: _____	Squeeze: <input type="checkbox"/> Yes <input type="checkbox"/> 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: _____
Treatment Date: _____ End Date: _____ Date of First Production this formation: _____
Perforations Top: 7373 Bottom: 10753 No. Holes: _____ Hole size: _____
Provide a brief summary of the formation treatment: _____ Open Hole: ☒

Completed Depths: 7,373'-7,927' 9,621'-10,753'

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:

The permitted objective formation is Codell; however, all actual producing formations are considered common source.

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: _____ Email: Cassie.Gonzalez@pdce.com

Attachment Check List

Att Doc Num **Name**

Total Attach: 0 Files

General Comments

User Group **Comment** **Comment Date**

Permit	Returned to draft for AOC settlement.	09/15/2016
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Total: 1 comment(s)