

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:

400497824

Date Received:

01/31/2018

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: 10110

2. Name of Operator: GREAT WESTERN OPERATING COMPANY LLC

3. Address: 1801 BROADWAY #500

City: DENVER State: CO Zip: 80202

4. Contact Name: Miracle Pfister

Phone: (303) 398-0550

Fax:

Email: regulatorypermitting@gwogco.com

5. API Number 05-123-27276-00

7. Well Name: GREAT WESTERN

8. Location: QtrQtr: NESE Section: 27 Township: 6N Range: 67W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 27-44

Completed Interval

FORMATION: CODELL		Status: COMMINGLED		Treatment Type: FRACTURE STIMULATION	
Treatment Date: 06/16/2012		End Date: 06/16/2012		Date of First Production this formation: 06/14/2007	
Perforations Top: 7154		Bottom: 7174		No. Holes: 160      Hole size: 0.38	
Provide a brief summary of the formation treatment:				Open Hole: <input type="checkbox"/>	
ReFrac perf 7154-7174 Codell frac Treatment Totals: Total 150,3000 lbs 30/50 Ottawa, 4,000 lbs 20/40 SLC Pumped 0.5 ppa to 2.0 ppa in 3124 bbls of slickwater. Total fluid pumped 4919 bbls.					
This formation is commingled with another formation:				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Total fluid used in treatment (bbl): 4919		Max pressure during treatment (psi): 4897			
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): 0.73			
Total acid used in treatment (bbl): 0		Number of staged intervals: 1			
Recycled water used in treatment (bbl): 0		Flowback volume recovered (bbl): 988			
Fresh water used in treatment (bbl): 4919		Disposition method for flowback: DISPOSAL			
Total proppant used (lbs): 154300		Rule 805 green completion techniques were utilized: <input checked="" type="checkbox"/>			
Reason why green completion not utilized: _____					
<b>Fracture stimulations must be reported on FracFocus.org</b>					
<b>Test Information:</b>					
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: NIOBRARA-CODELL Status: PRODUCING Treatment Type: \_\_\_\_\_

Treatment Date: \_\_\_\_\_ End Date: \_\_\_\_\_ Date of First Production this formation: 06/27/2007

Perforations Top: 6838 Bottom: 7174 No. Holes: 319 Hole size: 0.38

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: 07/26/2012 Hours: 24 Bbl oil: 8 Mcf Gas: 20 Bbl H2O: 12

Calculated 24 hour rate: Bbl oil: 8 Mcf Gas: 20 Bbl H2O: 12 GOR: 2500

Test Method: Flowing Casing PSI: 1200 Tubing PSI: 1050 Choke Size: 24/64

Gas Disposition: SOLD Gas Type: WET Btu Gas: 1316 API Gravity Oil: 45

Tubing Size: 2 + 3/8 Tubing Setting Depth: 7139 Tbg setting date: 06/19/2012 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: 06/16/2012 End Date: 06/16/2012 Date of First Production this formation: 06/27/2007

Perforations Top: 6838 Bottom: 7048 No. Holes: 159 Hole size: 0.38

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

ReFrac Perf Niobrara A 6840' - 6843', Niobrara B 6969' - 6974', Niobrara C 7041' - 7048'.

Niobrara re frac Treatment Totals: Total 204,060 lbs 40/70 Ottawa, 4,000 lbs 20/40 SLC Pumped 0.5 ppa to 2.0 ppa in 4383 bbls of slickwater. Total fluid pumped 6161 bbls.

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

Total fluid used in treatment (bbl): 6161

Max pressure during treatment (psi): 5256

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): 0.93

Total acid used in treatment (bbl): 0

Number of staged intervals: 1

Recycled water used in treatment (bbl): 0

Flowback volume recovered (bbl): 988

Fresh water used in treatment (bbl): 6161

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 208060

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:

This Form 5A is for a codell-niobrara refrac performed on 6/16/2012.

The date of first production for the Codell and combined Niobrara-Codell tab has been updated to show the correct date.

The original approved Form 5A (Doc # 1914000) had incorrectly reported the # perf holes in the Niobrara, and therefore the Form 5A (Doc # 1876327) was also incorrectly reported. The original frac job on 06/26/2007 shot 114 perforations in Niobrara formation. This would make the combined perforations number to be 194 (original 80 perfs in codell was correct). The refrac on 6/16/2012 shot 45 perforations in the Niobrara for a total of 159 perforation, and shot 80 perfs in the Codell for a total of 160 perfs in the formation. The combined number of perfs in the entire wellbore is 319.

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

Signed: Print Name: Jack Desmond

Title: Regulatory Analyst Date: 1/31/2018 Email: jdesmond@gwogco.com

#### Attachment Check List

Att Doc Num Name

400497824 FORM 5A SUBMITTED

Total Attach: 1 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Returned to draft for AOC settlement.	12/07/2016
Permit	Tubing information is incomplete.	09/08/2015
Permit	Per Operator request returned to draft	07/09/2015
Permit	Missing narrative for details of treatment. Form returned to draft.	10/30/2013

Total: 4 comment(s)