

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:

400486260

Date Received:

09/26/2013

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: Callie Fiddes

Phone: (303) 398-0550

Fax:

Email: regulatorypermitting@gwogco.com

5. API Number 05-123-35598-00

7. Well Name: HCW FD

8. Location: QtrQtr: SESW Section: 24 Township: 6N Range: 67W Meridian: 6

9. Field Name: WATTENBERG Field Code: 90750

6. County: WELD

Well Number: 24-20D

Completed Interval

FORMATION: <u>CODELL</u>		Status: <u>COMMINGLED</u>		Treatment Type: <u>FRACTURE STIMULATION</u>	
Treatment Date: <u>12/17/2012</u>		End Date: <u>12/17/2012</u>		Date of First Production this formation: <u>12/22/2012</u>	
Perforations	Top: <u>7259</u>	Bottom: <u>7274</u>	No. Holes: <u>42</u>	Hole size: <u>7/20</u>	

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

Codell frac Treatment Totals: Total 115,000 lbs 30/50 Ottawa, Pumped 0.5 ppa to 2.0 ppa in 2353 bbls of fluid. Total fluid pumped 3798.9 bbls.
 MIRU Mesa WL RU Lubricator to Frac Manifold, PU & RIH 4 1/2" CBP & 20' x 3 1/8" 3SPF Casing Gun, RIH correlate depth, Set CBP @ 7190', PUH & correlate depth

This formation is commingled with another formation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Total fluid used in treatment (bbl): <u>3798</u>	Max pressure during treatment (psi): <u>5636</u>	
Total gas used in treatment (mcf): <u>0</u>	Fluid density at initial fracture (lbs/gal): <u>8.70</u>	
Type of gas used in treatment: _____	Min frac gradient (psi/ft): <u>0.90</u>	
Total acid used in treatment (bbl): <u>0</u>	Number of staged intervals: <u>1</u>	
Recycled water used in treatment (bbl): <u>0</u>	Flowback volume recovered (bbl): <u>1334</u>	
Fresh water used in treatment (bbl): <u>3798</u>	Disposition method for flowback: <u>DISPOSAL</u>	
Total proppant used (lbs): <u>115000</u>	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: _____	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: <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, number of sacks cmt _____
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** Bridge Plug Depth: _____ ** Sacks cement on top: _____ ** Wireline and Cement Job Summary must be attached.

FORMATION: NIOBRARA-CODELL		Status: PRODUCING		Treatment Type: FRACTURE STIMULATION	
Treatment Date: _____		End Date: _____		Date of First Production this formation: 12/22/2012	
Perforations	Top: 6948	Bottom: 7274	No. Holes: 86	Hole size: 7/20	
Provide a brief summary of the formation treatment:			Open Hole: <input type="checkbox"/>		
No packer used					
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					
Test Information:					
Date: 12/22/2012	Hours: 24	Bbl oil: 144	Mcf Gas: 48	Bbl H2O: 1	
Calculated 24 hour rate:	Bbl oil: 144	Mcf Gas: 48	Bbl H2O: 1	GOR: 334	
Test Method: Test Separator	Casing PSI: 650	Tubing PSI: 1300	Choke Size: 12/64		
Gas Disposition: SOLD	Gas Type: WET	Btu Gas: 1327	API Gravity Oil: 50		
Tubing Size: 2 + 3/8	Tubing Setting Depth: 7246	Tbg setting date: 10/26/2012	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 Status: COMMINGLED Treatment Type: FRACTURE STIMULATION
Treatment Date: 12/17/2012 End Date: 12/17/2012 Date of First Production this formation: 12/22/2012
Perforations Top: 6948 Bottom: 7159 No. Holes: 44 Hole size: 7/20
Provide a brief summary of the formation treatment: Open Hole: ☐

Niobrara frac Treatment Totals: Total 200,160 lbs 40/70 Ottawa, 4,000 lbs 20/40 SLC Pumped 0.6 ppa to 2.1 ppa in 3927 bbls of fluid.
Total fluid pumped 5388.6 bbls.

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

Total fluid used in treatment (bbl): 5388 Max pressure during treatment (psi): 6004
Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.34
Type of gas used in treatment: Min frac gradient (psi/ft): 0.92
Total acid used in treatment (bbl): 0 Number of staged intervals: 1
Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 1334
Fresh water used in treatment (bbl): 5388 Disposition method for flowback: DISPOSAL
Total proppant used (lbs): 200160 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:

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

Signed: Print Name: Callie Fiddes
Title: Regulatory Tech Date: 9/26/2013 Email: regulatorypermitting@gwogco.com

Attachment Check List

Att Doc Num Name

400486260 FORM 5A SUBMITTED

Total Attach: 1 Files

General Comments

User Group	Comment	Comment Date
Permit	Codell perf top is not in the codell formationas stated in the form 5 Doc 400492032. Opr notified.	1/7/2014 1:39:17 PM
Permit	Narrative for treatment missing.Pushing form back to draft.	10/30/2013 2:16:14 PM

Total: 2 comment(s)