

FORM
5A

Rev
06/12

State of Colorado
Oil and Gas Conservation Commission

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DE ET OE ES

Document Number:

402021094

Date Received:

09/18/2019

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: 1001 17TH STREET #2000
City: DENVER State: CO Zip: 80202
4. Contact Name: Renee Kendrick
Phone: (720) 595-2114
Fax:
Email: rkendrick@gwogco.com

5. API Number 05-123-44347-00
6. County: WELD
7. Well Name: Ottesen LE
Well Number: 06-351HN
8. Location: QtrQtr: NWSE Section: 33 Township: 1N Range: 66W Meridian: 6
9. Field Name: WATTENBERG Field Code: 90750

Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION
Treatment Date: 03/05/2019 End Date: 03/12/2019 Date of First Production this formation: 04/15/2019
Perforations Top: 16542 Bottom: 17839 No. Holes: 234 Hole size: 19/50

Provide a brief summary of the formation treatment:

Open Hole: ☐

512 bbls 15% HCL Acid; 109,850# 100 Mesh Sand; 1,240,710# 20/40 Sand; 38,859 bbls Gelled Fluid; Flowback determined from well test separator

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

Total fluid used in treatment (bbl): 39371

Max pressure during treatment (psi): 4606

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): 0.94

Total acid used in treatment (bbl): 512

Number of staged intervals: 9

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl): 10427

Fresh water used in treatment (bbl): 38859

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 1350560

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 04/18/2019 Hours: 24 Bbl oil: 498 Mcf Gas: 581 Bbl H2O: 483
Calculated 24 hour rate: Bbl oil: 498 Mcf Gas: 581 Bbl H2O: 483 GOR: 1167
Test Method: Flowing Casing PSI: 1756 Tubing PSI: 1185 Choke Size: 16/64
Gas Disposition: SOLD Gas Type: WET Btu Gas: 1416 API Gravity Oil: 42
Tubing Size: 2 + 3/8 Tubing Setting Depth: 10140 Tbg setting date: 04/04/2019 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:

The bottom of the completed interval is at 840' FSL and 2444' FEL of Section 6. During stimulation the wellbore was isolated by a composite bridge plug set at 17854'. The toe sleeve is @ 17,896', with zonal isolation below this point provided by cement from 17,896'-18,170' behind pipe and 18,161'-18,170' inside the production casing, see cement job summary. Great Western certifies that none of the wellbore beyond the unit boundary setback was completed.

The subject well only has 9 frac stages complete. Could not pump perf guns past 12,052 ft MD while attempting to perforate stage 10. Suspected casing issue. The 9 completed stages were drilled out and put on production.

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

Signed: _____ Print Name: Renee Kendrick
Title: Sr Regulatory Analyst Date: 9/18/2019 Email: rkendrick@gwogco.com

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402021094	FORM 5A SUBMITTED
402150261	CEMENT JOB SUMMARY

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	•Permitting review complete and passed task.	10/15/2019
Permit	Returned to Draft: •Bottom of producing interval does not agree with comment on the submit tab. Operator has reported a plug is set above the toe sleeve. Bottom of producing interval should be correct but submit tab comment is incorrect. •Missing plug setting depth on submit tab.	09/13/2019
Permit	•A task has been opened for Engineering to review the attached document.	09/06/2019
Engineer	The toe sleeve is not providing the zonal isolation, that would be from the cement. Request details of isolating cement in the annulus and the casing below the toe sleeve.	08/15/2019
Permit	•Requesting engineer review.	08/13/2019
Permit	Returned to Draft: Per the COA on the form 4 (Doc#401747798), Operator Comments do not satisfy all of the following requirements. (1) report the footages from the section lines of the bottom of the completed interval, (2) describe how the wellbore beyond the unit boundary setback is physically isolated, and (3) certify that none of the wellbore beyond the setback was completed.	07/15/2019

Total: 6 comment(s)