

FORM  
5Rev  
10/14State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

401895449

Date Received:

09/18/2019

## DRILLING COMPLETION REPORT

Per Rule 308A, this form and all required attachments shall be submitted after completing the drilling operations to drill, sidetrack, or deepen a wellbore and after changing the casing and/or cement configuration of a wellbore. If any attempt has been made to test, complete, or produce the well, the operator shall also submit a Form 5A (Completed Interval Report) per Rule 308B. If the well has been plugged, the operator shall also submit a Form 6 (Well Abandonment Report) per Rule 311.

Completion Type ☒ Final completion ☐ Preliminary completion

OGCC Operator Number: 10110

Contact Name: Renee Kendrick

Name of Operator: GREAT WESTERN OPERATING COMPANY LLC

Phone: (720) 595-2114

Address: 1001 17TH STREET #2000

Fax:

City: DENVER

State: CO

Zip: 80202

Email: rkendrick@gwogco.com

API Number 05-123-48287-00

County: WELD

Well Name: Ottesen LE

Well Number: 06-351HNX

Location: QtrQtr: NWSE

Section: 33

Township: 1N

Range: 66W

Meridian: 6

FNL/FSL

FEL/FWL

Footage at surface: Distance: 1410 feet

Direction: FSL

Distance: 1668 feet

Direction: FEL

As Drilled Latitude: 40.004328

As Drilled Longitude: -104.778646

GPS Data:

Date of Measurement: 01/23/2019

PDOP Reading: 1.6

GPS Instrument Operator's Name: RYAN WILLIAMS

FNL/FSL

FEL/FWL

\*\* If directional footage at Top of Prod. Zone

Dist: 775 feet

Direction: FSL

Dist: 534 feet

Direction: FEL

Sec: 5

Twp: 1S

Rng: 66W

FNL/FSL

FEL/FWL

\*\* If directional footage at Bottom Hole

Dist: 724 feet

Direction: FSL

Dist: 2542 feet

Direction: FEL

Sec: 6

Twp: 1S

Rng: 66W

Field Name: WATTENBERG

Field Number: 90750

Federal, Indian or State Lease Number:

Spud Date: (when the 1st bit hit the dirt) 11/08/2018

Date TD: 12/24/2018

Date Casing Set or D&amp;A: 12/26/2018

Rig Release Date: 01/24/2019 Per Rule 308A.b.

Well Classification:

☐ Dry ☒ Oil ☐ Gas/Coalbed ☐ Disposal ☐ Stratigraphic ☐ Enhanced Recovery ☐ Storage ☐ Observation

Total Depth MD 17750

TVD\*\* 7321

Plug Back Total Depth MD 17682

TVD\*\* 7320

Elevations GR 5076

KB 5096

Digital Copies of ALL Logs must be Attached per Rule 308A

☒

List Electric Logs Run:

Mud, MWD/LWD, CBL (Composite in 123-44337)

**CASING, LINER AND CEMENT**

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Top	Cmt Bot	Status
SURF	13+1/2	9+5/8	36	0	1,862	837	0	1,862	VISU
1ST	8+1/2	5+1/2	17	0	17,691	1,845	12,200	17,691	CBL
OPEN HOLE	8+1/2			17691	17,750				

**STAGE/TOP OUT/REMEDIAL CEMENT**

Cement work date: 02/21/2019

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom
SQUEEZE	S.C. 1.1	11,120	1,091	10,020	11,120
SQUEEZE	S.C. 1.2	9,940	741	8,648	9,940

Details of work:

Operation Summary:  
Set composite bridge plug (CBP) at 11,200' perfs at 11,120'  
Pump 1091sx cement  
Ran CBL from 10,046' to 6,000' (2/23/19)  
Drillout cement  
Run log from 12,291' to 8,000' (2/25/19)  
Set CBP at 9,990' perf at 9,940'  
Pump 741sx cement  
Run CBL from 9,432' to 8,000' found TOC at 8,648 (2/28/19)  
Drillout cement  
Run CBL from 10,258' to surface (3/2/19)  
RDMO  
(WBD, Cmt Summaries and CBLS are attached)

**FORMATION LOG INTERVALS AND TEST ZONES**

FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analysis must be submitted to COGCC)
	Top	Bottom	DST	Cored	
PARKMAN	5,804	5,979	NO	NO	
SUSSEX	6,457	6,722	NO	NO	
SHANNON	7,517	7,680	NO	NO	
SHARON SPRINGS	9,966		NO	NO	
NIOBRARA	10,230		NO	NO	

Operator Comments:

This well was drilled during the first rig occupation on the Ottesen Pad.

No open-hole logs were run; Open-hole composite log was run on the Ottesen LE 06-311HC (123-44337);  
Approved APD had BMP requiring one well on pad to be logged with an open hole resistivity log with gamma ray.

A squeeze was done on this well and approved via sundry doc #401932372

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

Att Doc Num	Document Name	attached ?			
<u>Attachment Checklist</u>					
401971291	CMT Summary *	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401977785	CMT Summary *	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401977786	CMT Summary *	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	Core Analysis	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
402153002	Directional Survey **	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	DST Analysis	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	Logs	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	Other	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
<u>Other Attachments</u>					
401895449	FORM 5 SUBMITTED	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401971288	DIRECTIONAL DATA	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401971316	LAS-MUD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401971317	PDF-MUD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401971320	LAS-MWD/LWD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401971324	PDF-MWD/LWD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
402151563	PDF-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
402151566	PDF-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
402151567	PDF-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
402151569	PDF-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
402151572	PDF-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
402151573	PDF-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
402179994	WELLBORE DIAGRAM	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

### 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: •Bulk Return Threshold has been exceeded. Form was not reviewed.	09/13/2019
Engineer	•Engineering review complete •Ready to pass	08/16/2019
Permit	Returned to draft: •Attached Wellbore Diagram does not agree with perforation interval reported on the form 5A.	08/13/2019

Total: 4 comment(s)

