

**FORM**  
**6**  
Rev  
11/20

**State of Colorado**  
**Oil and Gas Conservation Commission**

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



DE	ET	OE	ES
Document Number: 402692688			
Date Received: 05/26/2021			

**WELL ABANDONMENT REPORT**

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set. A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 10110 Contact Name: Kapri McMillan  
 Name of Operator: GREAT WESTERN OPERATING COMPANY LLC Phone: (970) 364-2826  
 Address: 1001 17TH STREET #2000 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80202 Email: kcmcmillan@gwp.com

**For "Intent" 24 hour notice required,** Name: Evins, Bret Tel: (970) 420-6699  
 Email: bret.evins@state.co.us

**COGCC contact:** \_\_\_\_\_

Type of Well Abandonment Report:  Notice of Intent to Abandon  Subsequent Report of Abandonment

API Number 05-123-24411-00 Well Number: 8-23  
 Well Name: CACHE  
 Location: QtrQtr: NESW Section: 8 Township: 6N Range: 63W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: WATTENBERG Field Number: 90750

*Only Complete the Following Background Information for Intent to Abandon*

Latitude: 40.499690 Longitude: -104.462530  
 GPS Data: GPS Quality Value: 1.9 Type of GPS Quality Value: PDOP Date of Measurement: 10/24/2007

Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_

Casing to be pulled:  Yes  No Estimated Depth: 2500  
 Fish in Hole:  Yes  No If yes, explain details below  
 Wellbore has Uncemented Casing leaks:  Yes  No If yes, explain details below  
 Details: There's a possible hole in casing @ 1053'

**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	6806	6816			
NIOBRARA	6534	6660			
Total: 2 zone(s)					

**Casing History**

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	NA	24	0	498	350	498	0	VISU
1ST	7+7/8	4+1/2	NA	11.6	0	6943	160	6943	3090	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6500 with 25 sacks cmt on top. CIBP #2: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.  
CIBP #3: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top. CIBP #4: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.  
CIBP #5: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 5 sks cmt from 4284 ft. to 4218 ft. Plug Type: CASING Plug Tagged:   
Set 75 sks cmt from 2550 ft. to 2250 ft. Plug Type: STUB PLUG Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Perforate and squeeze at 4384 ft. with 50 sacks. Leave at least 100 ft. in casing 4284 CICR Depth  
Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
(Cast Iron Cement Retainer Depth)  
Set 450 sacks half in. half out surface casing from 1450 ft. to 0 ft. Plug Tagged:   
Set \_\_\_\_\_ sacks at surface  
Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker:  Yes  No  
Set \_\_\_\_\_ sacks in rat hole Set \_\_\_\_\_ sacks in mouse hole

### Additional Plugging Information for Subsequent Report Only

Casing Recovered: \_\_\_\_\_ ft. of \_\_\_\_\_ inch casing Number of Days from Setting Surface Plug to Capping or Sealing the Well: \_\_\_\_\_  
Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_  
\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
Type of Cement and Additives Used: \_\_\_\_\_  
Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

#### Technical Detail/Comments:

##### Procedure:

- 1 Contact COGCC 24 hrs prior
- 2 MIRU
- 3 NDWH/NUBOP
- 4 POOH w/ tbg and tally
- 5 RIH and set CIBP at 6500', roll hole clean
- 6 Pump 25 sx Thermal 35 on top of plug at 6500', ETOC 6065'
- 7 PU and pressure test to 1000 psi
- 8 If test fails run packer to identify hole in casing (possible hole at 1053' from fluid shot)
- 9 RIH perf at 4384'. Pump inj test.
- 10 RIH set CICR at 4284'. Pump 50 sx Class G through CICR, leave 5 sx on top.
- 11 Cut an pull csg from 2500'. Pump 75 sx Thixo stub plug from 2550, ETOC 2250.
- 12 PU and pump 450 sx Class G w/ 2% from 1450' to surface (may split into two plugs)
- 13 WOC 4 hours
- 14 RIH tag, top off w/ cement as needed
- 15 RDMO
- 16 Cut & cap casing 4' - 6' below GL w/ plate (Well Name, API, Legal Location)

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: 5/26/2021 Email: rkendrick@gwp.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: JENKINS, STEVE

Date: 6/7/2021

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_

Expiration Date: 12/6/2021

**Condition of Approval**

**COA Type**

**Description**

	<p>This oil and gas location is within a CPW-mapped Pronghorn Winter Concentration Area high priority habitat (HPH). Plugging and abandonment (P&amp;A) activities should not occur from January 1 to April 30. If site conditions warrant that P&amp;A activities must occur from January 1 to April 30, Operator will consult with CPW to develop measures to avoid, minimize, and mitigate adverse impacts to wildlife.</p>
	<p>For Wells with known Bradenhead pressures:</p> <ol style="list-style-type: none"> <li>1) Provide 48 hours notice of plugging MIRU via electronic Form 42.</li> <li>2) After placing the shallowest hydrocarbon isolating plug (2550'), operator must wait a sufficient time to confirm static conditions.</li> <li>3) After placing plug at 2550' assure that all fluid migration has been eliminated by monitoring the well for a minimum of 8 hours before proceeding to the next plug. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.</li> <li>4) Prior to placing the 1450' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.</li> <li>5) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 448' or shallower and provide at least 10 sx plug at the surface.</li> <li>6) Leave at least 100' of cement in the wellbore for each plug.</li> <li>7) Properly abandon flowlines as per Rule 1105. Pursuant to Rule 911.a. Closure of Oil and Gas Facilities, Operator will submit Site Investigation and Remediation Workplans via Form 27 for COGCC prior approval before cutting and capping the plugged well, conducting flowline abandonment, and removing production equipment. Pursuant to Rule 1105.f. Abandonment Verification, within 90 days of an operator completing abandonment requirements for a flowline or crude oil transfer line, an operator must submit a Field Operations Notice, Form 42-Abandonment of Flowlines for on-location flowlines, and a Flowline Report, Form 44, for off-location flowlines or crude oil transfer lines.</li> <li>8) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</li> </ol>
	<p>Operator shall implement measures to control venting, to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.</p>
	<p>Prior to starting plugging operations a Bradenhead test shall be performed if there has not been a reported Bradenhead test within the 60 days immediately preceding the start of plugging operations.</p> <ol style="list-style-type: none"> <li>1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</li> <li>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</li> </ol> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p>

4 COAs

## Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402692688	FORM 6 INTENT SUBMITTED
402692984	WELLBORE DIAGRAM
402692988	WELLBORE DIAGRAM

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	1) Deepest Water Well within 1 mile = 300'. 2) Fox Hills Bottom- N/A, per SB5.	05/26/2021
Engineer	In accordance with the Notice to Operators (NTO): Timing for COGCC Forms adopted on 05/01/2020, this Form 6 Notice of Intent to Abandon is valid for 12 months from the date of approval expiring on 5/28/2022. This NTO does not alter the deadlines for submission of, or compliance with any other Commission rule or Form.	05/26/2021
Permit	-Confirmed as-drilled well location. -No other forms in process. -Production reporting up-to-date. -Confirmed productive intervals docnum: 1840056, 1987724. -Reviewed WBDs. -Pass.	05/19/2021

Total: 3 comment(s)