

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



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Document Number:

402637472

Date Received:

03/24/2021

**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: kcmillan@gwp.com

**For "Intent" 24 hour notice required,** Name: Santistevan, Brittani Tel: (720) 471-1110  
 COGCC contact: Email: brittani.santistevan@state.co.us

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

API Number 05-123-12952-00  
 Well Name: PIERCE UNIT-KENNEDY Well Number: 3  
 Location: QtrQtr: NESW Section: 27 Township: 8N Range: 66W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: PIERCE Field Number: 69000

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

Latitude: 40.631210 Longitude: -104.765830  
 GPS Data: GPS Quality Value: 6.0 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 04/10/2006

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

Casing to be pulled:  Yes  No Estimated Depth: \_\_\_\_\_  
 Fish in Hole:  Yes  No If yes, explain details below  
 Wellbore has Uncemented Casing leaks:  Yes  No If yes, explain details below  
 Details: \_\_\_\_\_

**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
LYONS	9214	9270			

Total: 1 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
CONDUCTOR	20	16	NA	84	0	63	40	63	0	CALC
SURF	12+1/4	9+5/8	NA	47	0	1001	400	1001	0	VISU
1ST	7+7/8	5+1/2	NA	15.5	0	9327	1455	9327	7450	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 9160 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 18 sks cmt from 7000 ft. to 6700 ft. Plug Type: CASING Plug Tagged:   
Set 12 sks cmt from 4600 ft. to 4500 ft. Plug Type: CASING Plug Tagged:   
Set 12 sks cmt from 1600 ft. to 1500 ft. Plug Type: CASING Plug Tagged:   
Set 145 sks cmt from 1200 ft. to 0 ft. Plug Type: CASING Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:

Perforate and squeeze at 7100 ft. with 40 sacks. Leave at least 100 ft. in casing 7000 CICR Depth  
Perforate and squeeze at 4700 ft. with 52 sacks. Leave at least 100 ft. in casing 4600 CICR Depth  
Perforate and squeeze at 1700 ft. with 52 sacks. Leave at least 100 ft. in casing 1600 CICR Depth  
(Cast Iron Cement Retainer Depth)

Set \_\_\_\_\_ sacks half in. half out surface casing from \_\_\_\_\_ ft. to \_\_\_\_\_ 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  
Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_ to Capping or Sealing the Well: \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

Technical Detail/Comments:

Perf @ 1200' squeeze 255 sx cmt to surface in the annulus

Procedure:

- 1 Contact COGCC
- 2 MIRU
- 3 Pull pump and rods
- 4 NDWH/NUBOP
- 5 RIH w/ CIBP and set @ 9160'
- 6 Pump 25 sx Thermal 35 on top of plug at 9160', ETOC 8896'
- 7 TOOH, LD to ~7000', stand back remaining
- 8 RIH w/ WL and shoot holes at 6900' & 7100'
- 9 RIH and set CICR @ 7000'
- 10 Squeeze 40 sx thru CICR, leave additional 18 sx on top Thermal 35, ETOC 6700'
- 11 Roll hole clean
- 12 TOOH, LD to ~4600', stand back remaining
- 13 RIH w/ WL and shoot holes at 4500' & 4700'
- 14 RIH and set CICR @ 4600'
- 15 Squeeze 52 sx thru CICR, leave additional 12 sx on top Class G +2%CC, ETOC 4500'
- 16 Roll hole clean
- 17 TOOH, LD to ~1600', stand back remaining
- 18 RIH w/ WL and shoot holes at 1500' & 1700'
- 19 RIH and set CICR @ 1600'
- 20 Squeeze 52 sx thru CICR, leave additional 12 sx on top Class G +2%CC, ETOC 1500'
- 21 Roll hole clean
- 22 Shoot holes at 1200' and establish circulation up annulus
- 23 Circulate 255 sx Class G + 2% CC up annulus to surface, fill casing from 1200' to surface with 145 sx
- 24 WOC 4 hours
- 25 RIH tag, top off w/ cement as needed
- 26 RDMO
- 27 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: 3/24/2021 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: 4/5/2021

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 10/4/2021

## Condition of Approval

**COA Type**

**Description**

	<p>1) Provide 2 business day notice of plugging MIRU via electronic Form 42.                  2) After placing the shallowest hydrocarbon isolating plug (1600'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.                  3) Prior to placing the 1200' plug: verify that all fluid migration (liquid and gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.                  4) 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 951' or shallower and provide 10 sx plug at the surface.                  5) Leave at least 100' of cement in the wellbore for each plug.                  6) 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.</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.                  1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.                  2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.                  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>
	<p>Operator will comply with the maximum permissible noise levels in COGCC Rule Table 423-1 for Residential/Rural Areas</p>
	<p>Operator will implement measures to control emissions 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 health, welfare and the environment. Due to proximity of BUs all blowdown gases will be controlled.</p>

4 COAs

## Attachment List

**Att Doc Num**

**Name**

402637472	FORM 6 INTENT SUBMITTED
402638599	WELLBORE DIAGRAM
402638601	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 = 465'. 2) Fox Hills Bottom- N/A, per SB5.	04/05/2021
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 4/05/2022. This NTO does not alter the deadlines for submission of, or compliance with any other Commission rule or Form.	04/05/2021
Permit	Attached correct WBDs. Pass.	03/24/2021
Permit	-Confirmed as-drilled well location. -No other forms in process. -Production reporting up-to-date. -Confirmed productive interval docnum: 254198. -Incorrect WBDs. -Returned to draft.	03/24/2021

Total: 4 comment(s)