

**FORM**  
**6**  
Rev  
05/18

**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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**Replug By Other Operator**

Document Number:

402262598

Date Received:

**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: Jeff Christian  
 Name of Operator: GREAT WESTERN OPERATING COMPANY LLC Phone: (970) 364-2814  
 Address: 1001 17TH STREET #2000 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80202 Email: jchristian@gwp.com

**For "Intent" 24 hour notice required,** Name: Silver, Randy Tel: (720) 827-6688  
**COGCC contact:** Email: randy.silver@state.co.us

API Number 05-001-06890-00 Well Number: 1  
 Well Name: HORST  
 Location: QtrQtr: NENE Section: 24 Township: 1S Range: 68W Meridian: 6  
 County: ADAMS Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: SPINDLE Field Number: 77900

Notice of Intent to Abandon  Subsequent Report of Abandonment

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

Latitude: 39.955619 Longitude: -104.942543  
 GPS Data:  
 Date of Measurement: \_\_\_\_\_ PDOP Reading: \_\_\_\_\_ GPS Instrument Operator's Name: \_\_\_\_\_  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other Replug to provide proper isolation for offset mitigation  
 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
NIOBRARA	7710	7989	08/06/1988	B PLUG CEMENT TOP	7650
TIMPAS-CODELL	8108	8134	08/06/1988	B PLUG CEMENT TOP	7650

Total: 2 zone(s)

**Casing History**

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	11	8+5/8	24	160	200	160	0	
1ST	7+7/8	5+1/2	15.5	8,238	500	8,238	6,879	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 50 sks cmt from 7650 ft. to 7220 ft. Plug Type: CASING Plug Tagged:   
Set 25 sks cmt from 5000 ft. to 4788 ft. Plug Type: CASING Plug Tagged:   
Set 25 sks cmt from 2500 ft. to 2288 ft. Plug Type: CASING Plug Tagged:   
Set 135 sks cmt from 1150 ft. to 0 ft. Plug Type: CASING Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:

Perforate and squeeze at 5100 ft. with 50 sacks. Leave at least 100 ft. in casing 5000 CICR Depth  
Perforate and squeeze at 2600 ft. with 50 sacks. Leave at least 100 ft. in casing 2500 CICR Depth  
Perforate and squeeze at 1250 ft. with 50 sacks. Leave at least 100 ft. in casing 1150 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. \_\_\_\_\_ inch casing Cut and Cap Date: \_\_\_\_\_  
of \_\_\_\_\_

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

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

Flowline/Pipeline has been abandoned per Rule 1105  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

TOC for the production string was calculated by GW Engineer  
 GW does not have a CBL or well records therefore, the setting depth of the tool for the 250 sx over the Fox Hills zone is uncertain;  
 Because of this the depth for the perfs @ 1200' and CICR @ 1150' and sx of cmt for the perf & squeeze and the plug at surface are approximate. Depths and cmt will be determined after CBL is run.

Procedure:

- 1 Locate and dig out well marker, attach csg extension.
- 2 Contact COGCC 24 hr before MIRU
- 3 MIRU
- 4 NU BOPE
- 5 PU RIH with bladed junk mill and workstring
- 6 Mill out cement to tag cement at ~7650'. Circulate well clean. POOH tubing and mill.
- 7 MIRU WL
- 8 RIH w/ WL GR to tag depth
- 9 Run CBL from 7600' to surface. Send to engineer for review.
- 10 RIH tubing open ended to spot cement plug above Nio
- 11 Place 50 sx Nio Squeeze above plug (Class G w/ 35% silica flour)
- 12 POOH standing back tubing.
- 13 RIH w/ WL and Perforate @ 5100' and 4900'
- 14 RIH and set CICR @ 5000'
- 15 Squeeze 50 sx thru CICR, leave additional 20 sx on top Class G
- 16 Roll hole clean
- 17 RIH w/ WL and Perforate @ 2600' and 2400'
- 18 RIH and set CICR @ 2500'
- 19 Squeeze 50 sx thru CICR, leave additional 20 sx on top Class G
- 20 Roll hole clean
- 21 RIH w/ WL and Perforate @ 1200' and ~1000' (depth will be determined after CBL)
- 22 RIH and set CICR in between perf sets
- 23 Squeeze XX sx thru CICR, Class G
- 24 Pump XXX sx from CICR to surface, Class G w/ 2% CaCl2
- 25 WOC 4 hrs
- 26 RIH tag, top off w/ cement as needed to surface
- 27 RDMO
- 28 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: Senior Regulatory Analyst Date: \_\_\_\_\_ Email: rkendrick@gwogco.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: \_\_\_\_\_ Date: \_\_\_\_\_

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

<u>COA Type</u>	<u>Description</u>
	-Obtain as-drilled well location and submit on form 6 subsequent.

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
402266401	WELLBORE DIAGRAM
402266402	WELLBORE DIAGRAM
402268290	SURFACE OWNER CONSENT
402268292	LOCATION PHOTO

Total Attach: 4 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	-No other forms in process. -Missing current site photos from 4 directions and signed surface owner consent. (see option 3) -Top of Codell is 8108, correct zones tab. -Change Codell formation on zones tab to TP-CD.	12/19/2019

Total: 1 comment(s)