

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.

Document Number:
 402637683
 Date Received:
 03/23/2021

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: Silver, Randy Tel: (720) 827-6688
COGCC contact: Email: randy.silver@state.co.us

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

API Number 05-001-06964-00
 Well Name: FREEMAN D Well Number: 1
 Location: QtrQtr: NESE Section: 31 Township: 1S Range: 66W Meridian: 6
 County: ADAMS Federal, Indian or State Lease Number: _____
 Field Name: BUGLE Field Number: 7800

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.919854 Longitude: -104.811048
 GPS Data: GPS Quality Value: 5.1 Type of GPS Quality Value: PDOP Date of Measurement: 02/05/2021
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other Off-set mitigation for the Edmundson and Prairie Pads
 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
D SAND	8174	8182	10/04/2000	B PLUG CEMENT TOP	8125
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
SURF	12+1/4	8+5/8	NA	24	0	271	300	271	0	VISU
1ST	7+7/8	4+1/2	NA	11.6	0	8369	300	8369	6711	CALC
				Stage Tool		1357	250	1357	835	CBL

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 25 sks cmt from 8125 ft. to 7693 ft. Plug Type: CASING Plug Tagged:
 Set 25 sks cmt from 7500 ft. to 7068 ft. Plug Type: CASING Plug Tagged:
 Set 5 sks cmt from 4800 ft. to 4693 ft. Plug Type: CASING Plug Tagged:
 Set 5 sks cmt from 2300 ft. to 2193 ft. Plug Type: CASING Plug Tagged:
 Set 106 sks cmt from 1400 ft. to 0 ft. Plug Type: CASING Plug Tagged:
 Perforate and squeeze at 4900 ft. with 30 sacks. Leave at least 100 ft. in casing 4800 CICR Depth
 Perforate and squeeze at 2400 ft. with 30 sacks. Leave at least 100 ft. in casing 2300 CICR Depth
 Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ 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 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
- 2 Locate & attach wellhead
- 3 MIRU
- 4 NUBOP
- 5 PU RIH w/ bladed junk mill and workstring
- 6 Mill out cement from surface to ~13' and drill out CIBP at 1403'
- 7 RIH and tag CIBP at 8125'
- 8 Roll hole clean
- 9 Run CBL, send results to engineer
- 10 Pump 25 sx Thermal 35 on CIBP, ETOC @ 7693'
- 11 PU to 7500', pump 25 sx Thermal 35, ETOC @ 7068'
- 12 TOOH, LD to ~4800', stand back remaining
- 13 RIH w/ WL and shoot holes at 4700' & 4900'
- 14 RIH and set CICR @ 4800'
- 15 Squeeze 30 sx thru CICR, leave additional 5 sx on top AGM 1.86 (ETOC @ 4693')
- 16 Roll hole clean
- 17 RIH w/ WL and shoot holes at 2200' & 2400'
- 18 RIH and set CICR @ 2300'
- 19 Squeeze 30 sx thru CICR, leave additional 5 sx on top AGM 1.86 (ETOC @ 2193')
- 20 Roll hole clean
- 21 Verify no migration (if migration, call engineer)
- 22 PU to 1400'
- 23 Pump 106 sx Class G + 2%CC from 1400' to surface
- 24 WOC 4 hours, top off as needed
- 25 RDMO
- 26 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: 3/23/2021 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: Jacobson, Eric Date: 4/5/2021

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 10/4/2021

COA Type	Description
	CBL to be run prior to plugging to verify existing coverage - submit to COGCC for verification of plugging orders.
	1) Provide 2 business day notice of plugging MIRU via electronic Form 42. 2) After placing the shallowest hydrocarbon isolating plug (7500'), 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 1400' 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 221' or shallower and provide 10 sx plug at the surface. 5) Leave at least 100' of cement in the wellbore for each plug. 6) With the Form 6 SRA operator must provide written documentation, which positively affirms each COA has been addressed.
	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.

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402637683	FORM 6 INTENT SUBMITTED
402637712	WELLBORE DIAGRAM
402637713	WELLBORE DIAGRAM
402637714	LOCATION PHOTO
402637716	SURFACE OWNER CONSENT

Total Attach: 5 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Well file verification not completed prior to approval of NOIA.	04/05/2021
Engineer	Deepest Water Well within 1 Mile – 1321' SB5 Base of Fox Hills - 1258' Upper Arapahoe 4744 4917 55.8 344 171 15.18 NNT Lower Arapahoe 4444 4669 112.9 644 419 30.71 NT Laramie-Fox Hills 3830 4035 150.8 1258 1053 36.19 NT	04/05/2021
Permit	-Confirmed as-drilled well location. -No other forms in process. -Confirmed productive interval docnum: 312456. -Reviewed attachments. -Pass.	03/24/2021

Total: 3 comment(s)