

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



DE ET OE ES

Document Number:

402309148

Date Received:

02/11/2020

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: 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

For "Intent" 24 hour notice required,

Name: Santistevan, Brittani

Tel: (720) 471-1110

COGCC contact:

Email: brittani.santistevan@state.co.us

API Number 05-123-24287-00

Well Name: GREAT WESTERN

Well Number: 27-41

Location: QtrQtr: SENE Section: 27 Township: 6N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: WATTENBERG

Field Number: 90750

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.461330

Longitude: -104.874640

GPS Data:

Date of Measurement: 02/21/2007

PDOP Reading: 1.9

GPS Instrument Operator's Name: L. ROBBINS

Reason for Abandonment:

☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ OtherCasing 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:

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7230	7250	01/11/2017	BRIDGE PLUG	6832
NIOBRARA	6940	7062	01/11/2017	BRIDGE PLUG	6832

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	12+1/4	8+5/8	24	411	290	411	0	VISU
1ST	7+7/8	4+1/2	11.6	7,389	129	7,389	6,590	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	6832	ft. to	6432	ft.	Plug Type:	CASING	Plug Tagged:	<input type="checkbox"/>
Set	5	sks cmt from	3650	ft. to	3582	ft.	Plug Type:	CASING	Plug Tagged:	<input type="checkbox"/>
Set	100	sks cmt from	2550	ft. to	2100	ft.	Plug Type:	STUB PLUG	Plug Tagged:	<input checked="" type="checkbox"/>
Set		sks cmt from		ft. to		ft.	Plug Type:		Plug Tagged:	<input type="checkbox"/>
Set		sks cmt from		ft. to		ft.	Plug Type:		Plug Tagged:	<input type="checkbox"/>

Perforate and squeeze at 4000 ft. with 140 sacks. Leave at least 100 ft. in casing 3650 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 400 sacks half in. half out surface casing from 1300 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. _____ 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:

Procedure:

- 1 Contact COGCC inspector and GWP production foreman 24 hrs prior
- 2 MIRU
- 3 Blow down thru flowback and kill well
- 4 NDWH/NUBOP
- 5 Roll hole clean and pressure test csg to 500psi
- 6 Pump 25 sx Thermal 35 on top of plug at 6832 ft, POOH
- 7 Perf at 4000 ft and 3600 ft
- 8 Set CICR at 3650 ft
- 9 Pump 145sx Class G w/ 2% CCL and 5% Gyp thru CICR, Leave 5sx on CICR
- 10 Cut & pull casing @ 2500'
- 11 If all gas migration gone, Pump stub plug from 2550' w/ 100 sx Thix G
- 12 Tag plug & verify absolutely no migration
- 13 Pump surface plug from 1300' to surface w/ 400 sx Class G w/ 2% CaCl2
- 14 WOC 4 hours
- 15 RIH tag, top off w/ cement as needed
- 16 RDMO
- 17 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: 2/11/2020 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: JENKINS, STEVE

Date: 2/21/2020

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 8/20/2020

COA Type

Description

	<p>For Wells with known Bradenhead pressures:</p> <ol style="list-style-type: none">1) Provide 48-hour notice of plugging MIRU via electronic Form 42.2) The plug at 2550' needs to be placed and have an 8-hour WOC to assure that all fluid migration has been stopped. If that doesn't isolate the flow, additional attempts in front of the surface shoe plug will need to be attempted. Other downhole potential squeeze opportunities may need to be looked at before the 1300' plug.3) Prior to placing the 1300' 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.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 361' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the casing for each plug.5) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment is complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line, the operator must submit a Flowline Report, Form 44.6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.7) After placing the shallowest hydrocarbon isolating plug (2550'), 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.
	<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">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. <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>

Attachment Check List

Att Doc Num

Name

402309148	FORM 6 INTENT SUBMITTED
402309260	WELLBORE DIAGRAM
402309262	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 = 123'. 2) Fox Hills Bottom- N/A, per SB5.	02/21/2020
Permit	•Permitting review complete and task passed.	02/20/2020

Total: 2 comment(s)