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: 402563569

Date Received: 12/30/2020

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: 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: kmcmillan@gwp.com

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

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

API Number 05-123-24929-00

Well Name: HEINZE Well Number: 31-44

Location: QtrQtr: SESE Section: 31 Township: 7N 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: 40.524860 Longitude: -104.472330

GPS Data: GPS Quality Value: 2.6 Type of GPS Quality Value: PDOP Date of Measurement: 09/13/2008

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:

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	6894	6904			
NIOBRARA	6604	6736			

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	742	560	742	0	VISU
1ST	7+7/8	4+1/2	NA	11.6	0	7029	520	7029	3017	CBL

Subsurface hazards include, but are not limited to, the following: overpressured zones, underpressured zones, major geologic faults, salt sections, H2S at concentrations greater than or equal to 100 ppm.

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6650 with 25 sacks cmt on top. CIPB #2: Depth _____ with _____ sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 4500 ft. to 4068 ft. Plug Type: CASING Plug Tagged: ☐

Set 100 sks cmt from 2550 ft. to 2113 ft. Plug Type: STUB PLUG Plug Tagged: ☐

Set 200 sks cmt from 2113 ft. to 1433 ft. Plug Type: OPEN HOLE Plug Tagged: ☐

Set 200 sks cmt from 1433 ft. to 753 ft. Plug Type: OPEN HOLE Plug Tagged: ☐

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

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

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 240 sacks half in. half out surface casing from 753 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

Surface Plug Setting Date: _____ Cut and Cap Date: _____ Number of Days from Setting Surface Plug 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:

Procedure:

1 Contact COGCC
2 MIRU
3 Blow down thru flowback and kill well
4 NDWH/NUBOP
5 Set CIBP @ 6550', roll hole clean and pressure test to 1000 psi
6 Pump 25 sx Thermal 35 on top of plug at 6550', ETOC 6118'
7 PU to 4500'
8 Pump 25 sx Thermal 35 at 4500', est TOC @ 4068', POOH
9 Cut & pull casing @ 2500'
10 Pump stub plug from 2550' w/ 100 sx Migra Seal (ETOC @ 2113')
11 WOC 8 hours, use digital gauge to verify no pressure (0 psi) is remaining.
12 Tag plug and check for migration
13 If migration, call engineer to discuss next steps
14 If no migration, pump Class G w/ 3% CC from 2113' to ETOC 1433'
15 WOC 4 hours, tag plug
16 Pump 200 sx from 1433' to 753' w/ Class G + 3%CC
17 WOC 4 hours, tag plug
18 Pump 240 sx from 753' to surface w/ Class G + 3%CC
19 RIH tag, top off w/ cement as needed
20 RDMO
21 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: 12/30/2020 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: 1/6/2021

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 7/5/2021

COA Type	Description
	For Wells with known Bradenhead pressures: 1) Provide 48-hour notice of plugging MIRU via electronic Form 42. 2) The plug at 1433’ 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 753’ plug. 3) Prior to placing the 753’ 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 692’ 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 90 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 (1433'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact COGCC engineering before continuing operations.
	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.
	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.

Attachment List

Att Doc Num	Name
402563569	FORM 6 INTENT SUBMITTED
402563593	WELLBORE DIAGRAM
402563594	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	1) Deepest Water Well within 1 mile = 620'. 2) Fox Hills Bottom- N/A, per SB5.	01/06/2021
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 1/06/2022. This NTO does not alter the deadlines for submission of, or compliance with any other Commission rule or Form.	01/06/2021
Permit	-Confirmed as-drilled well location. -No other forms in process. -Production reporting up-to-date. -Confirmed productive intervals docnum:1714998, 1665567. -Reviewed WBDs. -Pass.	01/06/2021

Total: 3 comment(s)