

FORM  
6Rev  
05/18State 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:

401765896

Date Received:

10/11/2018

## 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@gwogco.com

For "Intent" 24 hour notice required,

Name: Beardslee, Tom

Tel: (970) 420-3935

COGCC contact:

Email: tom.beardslee@state.co.us

API Number 05-001-09465-00

Well Name: EQUINOX

Well Number: 15-9

Location: QtrQtr: SWSE Section: 9 Township: 1S Range: 67W Meridian: 6

County: ADAMS

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: 39.973508

Longitude: -104.889203

GPS Data:

Date of Measurement: 12/17/2008

PDOP Reading: 1.9

GPS Instrument Operator's Name: Cody Mattson

Reason for Abandonment: ☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 1250

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    | 7900      | 7920      |                |                     |            |
| J SAND    | 8345      | 8373      |                |                     |            |
| NIOBRARA  | 7510      | 7760      |                |                     |            |

Total: 3 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              | 1,138         | 430          | 1,138      | 0          | VISU   |
| 1ST         | 7+7/8        | 4+1/2          | 11.6            | 8,491         | 475          | 8,491      | 4,620      | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8290 with 2 sacks cmt on top. CIBP #2: Depth 7460 with 2 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 485 sks cmt from 1300 ft. to 0 ft. Plug Type: STUB PLUG Plug Tagged: ☒  
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged: ☐  
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged: ☐  
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged: ☐  
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged: ☐

Perforate and squeeze at 2500 ft. with 85 sacks. Leave at least 100 ft. in casing 2400 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 \_\_\_\_\_ 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 Plugging 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:

Proposed plugging procedure:  
Set CIBP @ 8290', dump bail 2 sx cmt  
Set CIBP @ 7460', dump bail 2 sx cmt  
Perf & squeeze @ 2500', squeeze 75 sx through CICR set @ 2400', leave 10 sx on top  
Cut & pull casing @ 1250'  
Pump stub plug @ 1300' with 485 sx to surface  
Cut & cap casing

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Kapri McMillan  
Title: Operations Engineer Date: 10/11/2018 Email: kmcmillan@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: Jacobson, Eric Date: 11/6/2018

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

Expiration Date: 5/5/2019

| <b>COA Type</b> | <b>Description</b>  |
|-----------------|---|
|                 | <p>If there has not been a reported Bradenhead test within 60 days of plugging this well, prior to starting plugging operations, a Bradenhead test shall be performed.</p> <p>1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>3) If sampling is required contact COGCC engineering for an confirmation of plugging requirements prior to placing any plugs.</p> <p>Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions.</p> <p>The Form 17 shall be submitted within 10 days of the test.</p>   |
|                 | <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Prior to placing the 1,300" 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.</p> <p>3) 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 314' or shallower and provide 10 sack plug at surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug.</p> <p>5) Properly abandon on-location 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.</p> |
|                 | <p>Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.</p>  |

### **Attachment Check List**

| <b><u>Att Doc Num</u></b> | <b><u>Name</u></b>      |
|---------------------------|-------------------------|
| 401765896                 | FORM 6 INTENT SUBMITTED |
| 401769131                 | WELLBORE DIAGRAM        |
| 401769141                 | WELLBORE DIAGRAM        |

Total Attach: 3 Files

### General Comments

| <u>User Group</u>      | <u>Comment</u>   | <u>Comment Date</u> |
|------------------------|--|---------------------|
| Engineer               | Deepest Water Well within 1 Mile – 1,117'<br>SB5 Base of Fox Hills - 1,060'<br>SB5 Base of Lower Arapahoe - 364'<br><br>Lower Arapahoe 4756 5019 107.3 364 101 29.18 NNT<br>Laramie-Fox Hills 4060 4328 189.8 1060 792 45.55 NT  | 11/06/2018          |
| Permit                 | Status Active - no AOC requirements.<br><br>Permitting review complete.  | 10/25/2018          |
| Permit                 | Verified as-drilled lat/longs.<br>Form 5 (doc# 1241504, 7/10/2003): reports formation tops; MD 8505'<br>Form 5A (doc# 1241505, 7/10/2003): JSND perf 8345-8373'; PR.<br>Form 5A (doc# 1980559, 3/19/2008): NBRR perf 7510-7760'; CM. CODL perf 7900-7920'; CM.<br>Form 5A (doc# 1980560, 3/19/2008): JSND CIBP @ 8100'; SI. NB-CD PR.<br>Form 5A (doc# 2061675, 6/9/2008): Push CIBP to 8450'; Commingle JNBCD.<br>Production reporting current. | 10/25/2018          |
| Permit                 | Status PENDING - this form may require additional form 5 or 5A information related to AOC.   | 10/17/2018          |
| Permit                 | Zones corrected. Pass.   | 10/16/2018          |
| Well File Verification | Pass   | 10/12/2018          |
| Permit                 | returned to draft: zones fields incorrectly entered  | 09/27/2018          |

Total: 7 comment(s)