

Document Number:
401768265

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 05-001-09439-00

Well Name: HSR STATE Well Number: 6-16

Location: QtrQtr: NWNW Section: 16 Township: 1S Range: 67W Meridian: 6

County: ADAMS Federal, Indian or State Lease Number: 70/8159S

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: 39.968369 Longitude: -104.898508

GPS Data:
Date of Measurement: 12/17/2008 PDOP Reading: 2.3 GPS Instrument Operator's Name: Cody Mattson

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____

Casing to be pulled: Yes No Estimated Depth: 1270

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	7960	7978	05/22/2018	BRIDGE PLUG	7450
NIOBRARA	7534	7812	05/22/2018	BRIDGE PLUG	7450
DAKOTA	8567	8600	05/22/2018	BRIDGE PLUG	8090
J SAND	8397	8431	05/22/2018	BRIDGE PLUG	8090

Total: 4 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	1,171	820	1,171	0	VISU
1ST	7+7/8	4+1/2	11.6	8,666	350	8,666	6,990	CBL
			Stage Tool	5,320	150	5,320	4,850	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8350 with 2 sacks cmt on top. CIBP #2: Depth 7480 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 20 sks cmt from 5350 ft. to 5060 ft. Plug Type: CASING Plug Tagged:
 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:

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. of _____ inch casing Plugging Date: _____

*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:

Planned plugging procedure:
 Drill out existing RBPs at 7450' and 8090' (plugs were set for mitigation of nearby frac)
 Set CIBP @ 8350', dump bail 2 sx cmt
 Set CIBP @ 7480', dump bail 2 sx cmt
 Pump 20 sx csg plug @ 5325' to approx 5060'
 Perf & squeeze @ 2500', pump 75 sx thru CICR @ 2400', leave 10 sx on top.
 Cut and pull casing @ 1270', pump 475 sx cmt from 1300' to surface

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: BURN, DIANA Date: 11/11/2018

COA Type	Description
	<p>NOTE CHANGE: plug deepened to 5350'</p> <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) If surface casing shoe plug(1300') not circulated to surface then tag plug – must be 330' or shallower and provide 10 sx plug at the surface.</p> <p>3) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment 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>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. If the well was not sampled as part of a prior test it should be sampled if pressure is 25# or greater. If there is a need for sampling - contact COGCC engineering for verification of plugging procedures (Pressure greater than 25# or any liquids flowed to surface).</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>Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling.</p> <p>The Form 17 shall be submitted within 10 days of the test.</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

Att Doc Num	Name
401768265	FORM 6 INTENT SUBMITTED
401768439	WELLBORE DIAGRAM
401769715	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Lower Arapahoe 4763 5051 113.1 387 99 30.76 NNT Laramie-Fox Hills 4075 4348 204.6 1075 802 49.10 NT Deepest WW 1117'	11/11/2018
Permit	Status ACTIVE - Form 5A to report TA status and bridge plug for offset safety shut in will be submitted under the AOC's special request function. Permitting review complete.	10/24/2018
Permit	Verified as-drilled lat/longs. Form 5 (doc# 1337489, 4/24/2002): reports formation tops. TD 8669'. Form 5A (doc# 1337490, 4/24/2002): DKTA perf 8567-8600'; PR. Form 5A (doc# 1097589, 7/22/2002): JSND perf 8397-8434'; PR. Form 5A (doc# 1739629, 2/27/2007): DK-J commingled. Form 5A (doc# 2611189, 4/8/2010): NBRR perf 7534-7812'; CODL perf 7960-7978'; PR NB-CD combined. JSND TA for NB-CD recomplete. Form 5A (doc# 261190, 4/8/2010): DKTA TA, CIBP @ 8340' 2 sacks for NB-CD recomplete. Form 5A (doc# 400207874, 10/10/2011): removed CIBP, DK-J-NB-CD commingled. Production reporting current.	10/24/2018
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)