

Document Number:
402449926

Date Received:
07/23/2020

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: Jeff Christian
 Name of Operator: GREAT WESTERN OPERATING COMPANY LLC Phone: (970) 364-2814
 Address: 1001 17TH STREET #2000 Fax: _____
 City: DENVER State: CO Zip: 80202 Email: jchristian@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 05-001-09490-00 Well Name: KORTUM Well Number: 12-21
 Location: QtrQtr: SWNW Section: 21 Township: 1S Range: 67W Meridian: 6
 County: ADAMS Federal, Indian or State Lease Number: _____
 Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.951626 Longitude: -104.901538
 GPS Data: GPS Quality Value: 2.0 Type of GPS Quality Value: _____ Date of Measurement: 04/06/2010
 GPS Instrument Operator's Name: David Metzler
 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	8112	8130			
J SAND	8530	8574			

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	1,534	603	1,534	0	CALC
1ST	7+7/8	4+1/2	11.6	8,645	245	8,645	7,230	CBL
S.C. 1.1				5,510	222	5,510	4,410	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8500 with 2 sacks cmt on top. CIBP #2: Depth 8050 with 50 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 5250 ft. to 4850 ft. Plug Type: CASING Plug Tagged:
Set 120 sks cmt from 2550 ft. to 2100 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 _____ 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 500 sacks half in. half out surface casing from 1600 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

Technical Detail/Comments:

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: 7/23/2020 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: Jacobson, Eric Date: 8/24/2020

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 2/23/2021

COA Type	Description
	Add 2 sacks cement on top of the CIBP at 8500'.
	<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> <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>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> <p>If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.</p>
	<p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Prior to placing the 1600' 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 523' 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>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p> <p>7) After placing the shallowest hydrocarbon isolating plug (5250'), 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.

Attachment Check List

Att Doc Num	Name
402449926	FORM 6 INTENT SUBMITTED
402450032	WELLBORE DIAGRAM
402450033	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
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 08/23/2021. This NTO does not alter the deadlines for submission of, or compliance with any other Commission rule or Form.	08/24/2020
Engineer	Well file verification not completed prior to approval of NOIA.	08/24/2020
Engineer	Deepest Water Well within 1 Mile – 1270' SB5 Base of Fox Hills - 1238' Lower Arapahoe 4699 4992 141.1 573 280 38.38 NNT Laramie-Fox Hills 4034 4293 226.7 1238 979 54.41 NT	08/24/2020
Permit	-Confirmed as-drilled well location. -Production reporting up-to-date. -Confirmed productive interval docnum: 1259735. -Reviewed WBDs. -Pass.	08/24/2020

Total: 4 comment(s)