

FORM  
6Rev  
11/20

## State of Colorado

## Energy &amp; Carbon Management Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

403866827

Date Received:

07/26/2024

## 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.

ECMC Operator Number: 69175

Contact Name: Maryam Akbari

Name of Operator: PDC ENERGY INC

Phone: (661) 633-4604

Address: 1099 18TH STREET SUITE 1500

Fax:

City: DENVER State: CO Zip: 80202

Email: maryamakbari@chevron.com

For "Intent" 24 hour notice required,

Name: Kester, Michael

Tel: (970) 852-9726

ECMC contact:

Email: michael.kester@state.co.us

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

API Number 05-001-06518-00

Well Name: REBA SHAW

Well Number: 1

Location: QtrQtr: SWSW Section: 15 Township: 1S Range: 66W 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: 39.960659

Longitude: -104.767504

GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: PDOP Date of Measurement: 03/31/2010

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems☐ OtherCasing to be pulled: ☐ Yes ☒ No Estimated Depth:Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore 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
J SAND	8138	8153	07/02/2019	B PLUG CEMENT TOP	8080

Total: 1 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	J55	24	0	266	200	266	0	VISU
1ST	7+7/8	4+1/2	NA	11.6	0	8235	250	8235	7600	CBL
S.C. 1.1						7550	123	7600	7270	CBL
S.C. 1.2						7212	120	7251	6954	CALC
				Stage Tool		1261	250	1261	700	CBL
S.C. 1.3						2815	90	3000	2500	CALC

### 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 \_\_\_\_\_ 35 \_\_\_\_\_ sks cmt from \_\_\_\_\_ 2400 \_\_\_\_\_ ft. to \_\_\_\_\_ 2000 \_\_\_\_\_ ft. Plug Type: CASING Plug Tagged: ☐  
Set \_\_\_\_\_ 35 \_\_\_\_\_ sks cmt from \_\_\_\_\_ 1666 \_\_\_\_\_ ft. to \_\_\_\_\_ 1266 \_\_\_\_\_ ft. Plug Type: CASING Plug Tagged: ☐  
Set \_\_\_\_\_ 40 \_\_\_\_\_ sks cmt from \_\_\_\_\_ 466 \_\_\_\_\_ ft. to \_\_\_\_\_ 0 \_\_\_\_\_ ft. Plug Type: CASING 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 \_\_\_\_\_ 155 \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ 2400 \_\_\_\_\_ CICR Depth  
Perforate and squeeze at \_\_\_\_\_ 1766 \_\_\_\_\_ ft. with \_\_\_\_\_ 155 \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ 1666 \_\_\_\_\_ CICR Depth  
Perforate and squeeze at \_\_\_\_\_ 466 \_\_\_\_\_ ft. with \_\_\_\_\_ 120 \_\_\_\_\_ 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

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:

3rd party wildlife surveys will be conducted on this well prior to rigging up for P&A activities.

Notification will be given to any adjacent building unit occupants within a 1000 feet of the wellhead of planned P&A start date.

Please be aware that Form 6 Approval can predate actual rig work by up to several months and that environmental conditions can change quickly over that time. Chevron's Environmental Site Screening Process incorporates full environmental field clearances within 7 days of a scheduled well-work activity once the well is added to the active workover rig schedule. Should sensitive HPH conditions be identified during the screening process, Chevron will delay the work until conditions (nesting) clear and/or consult directly with CPW for guidance and discussion of potential mitigation measures that may be incorporated.

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

Signed: \_\_\_\_\_

Print Name: Sharon Strum

Title: Lead Wells Technical Asst

Date: 7/26/2024

Email: sharon.strum@chevron.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with ECMC Rules and applicable orders and is hereby approved.

ECMC Approved: Jacobson, Eric

Date: 8/2/2024

CONDITIONS OF APPROVAL, IF ANY LIST

Expiration Date: 2/1/2025

COA Type	Description
	<p>Operator will implement measures to capture, combust, or control emissions 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 health, welfare and the environment. Due to the proximity of residential building units (RBUs) all blowdown gasses will be controlled.</p> <p>Due to proximity of plugging and abandonment (P&amp;A) operations to BUs, operator will comply with Table 423 Maximum Permissible Noise Levels for residential land use. Prior to initiating work, operator will install temporary sound walls, straw bales, or other BMPs to dampen noise if necessary for compliance.</p> <p>Due to close proximity to Residential Building Units (RBUs), prior to commencing operations, at a minimum, the operator will provide an informational sheet to the owners/occupants of the RBUs nearby and adjacent to the parcel with the well. The sheet will include the operator's contact information and the nature, timing, and expected duration of the P&amp;A operations</p>
	<p>Prior to commencing operations, the operator will post signs in conspicuous locations at intersections that will remain in place throughout the duration of the plug and abandonment activities. The signs will indicate plugging and abandonment operations are being conducted, the well name, well, and the applicable contact information. Signs will be placed so as not to create a potential traffic hazard.</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> <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 ECMC within three (3) months of collecting the samples.</p> <p>If there is a need for sampling, contact ECMC engineering for verification of plugging procedure.</p>
	<p>Consistent with Rule 911.a, a Form 27 must be approved prior to cut and cap, conducting flowline abandonment, or removing production equipment. Allow 30 days for Director review of the Form 27; include the Form 27 document number on the Form 44 for offsite flowline abandonment (if applicable) and on the Form 6 Subsequent.</p> <p>Properly abandon flowlines per Rule 1105. If flowlines will be abandoned in place, include with the Form 27: pressure test results conducted in the prior 12 months as well as identification of any document numbers for a ECMC Spill/Release Report, Form 19, associated with the abandoned line.</p>

	<p>1) Provide electronic Form 42 Notice of MIRU 2 business days ahead of operations and electronic Form 42 Notice of Plugging Operations 48 hours prior to mobilizing for plugging operations. These are two separate notifications, required by Rules 405.e and 405.l.</p> <p>2) Prior to placing cement above the base of the Upper Pierre (2300') : verify that all fluid (liquid and gas) migration has been eliminated. If evidence of fluid migration or pressure remains, contact ECMC Engineer for an update to plugging orders.</p> <p>3) Pump surface casing shoe plug at 466' only after isolation has been verified. If surface casing cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 209' or shallower and provide a minimum of 10 sx plug at the surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug without mechanical isolation.</p> <p>5) After cut and prior to cap, verify isolation by either a 15 minute bubble test or 15 minute optical gas imaging recording. If there is indication of flow contact ECMC Engineering. Provide a statement on the 6SRA which method was used and what was observed. Retain records of final isolation test for 5 years.</p> <p>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA listed above has been addressed.</p>
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5 COAs

#### ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
403866827	FORM 6 INTENT SUBMITTED
403866865	WELLBORE DIAGRAM
403866867	WELLBORE DIAGRAM

Total Attach: 3 Files

#### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Location Assessment Specialist (LAS) review complete. Well is not in a HPH and not near surface waters or wetlands. Task passed.	08/01/2024
Engineer	Well file verification not completed prior to approval of NOIA.	08/01/2024
Engineer	<p>Deepest Water Well within 1 Mile – 682'</p> <p>SB5 Base of Fox Hills - 1233'</p> <p>SB5 Base of Lower Arapahoe - 601'</p> <p>SB5 Base of Upper Arapahoe - 259'</p> <p>Upper Arapahoe / 4838 / 4963 / 28.8 / 259 / 134 / 7.83NNT</p> <p>Lower Arapahoe / 4496 / 4763 / 107.5 / 601 / 334 / 29.24NT</p> <p>Laramie-Fox Hills / 3864 / 4083 / 179.2 / 1233 / 1014 / 43.01NT</p>	08/01/2024
Permit	<p>Confirmed as-drilled well location.</p> <p>Production reporting up-to-date.</p> <p>Confirmed productive interval and added date abandoned per docnum:402246967.</p> <p>Reviewed WBDs.</p> <p>Pass.</p>	07/29/2024

Total: 4 comment(s)