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: 403188177

Date Received: 10/05/2022

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: 47120 Contact Name: Lindsay Davis

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (970) 515-1500

Address: P O BOX 173779 Fax:

City: DENVER State: CO Zip: 80217- Email: Lindsay_Davis@oxy.com

For "Intent" 24 hour notice required, COGCC contact: Name: Carlile, Craig Tel: (970) 629-8279 Email: craig.carlile@state.co.us

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

API Number 05-123-25465-00

Well Name: LUDWIG H Well Number: 6-19

Location: QtrQtr: SWNW Section: 6 Township: 3N Range: 65W Meridian: 6

County: WELD Federal, Indian or State Lease Number:

Field Name: HAMBERT Field Number: 33530

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.257717 Longitude: -104.711347

GPS Data: GPS Quality Value: 2.7 Type of GPS Quality Value: PDOP Date of Measurement: 07/08/2008

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 755

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	7365	7380			
NIOBRARA	7073	7155			

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	J-55	24	0	654	316	654	0	VISU
1ST	7+7/8	4+1/2	M-80	11.6	0	7533	920	7533	2500	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7021 with 2 sacks cmt on top. CIBP #2: Depth 260 with 80 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	5	sks cmt from	4340	ft. to	4280	ft.	Plug Type:	CASING	Plug Tagged: ☐
Set	5	sks cmt from	2770	ft. to	2710	ft.	Plug Type:	CASING	Plug Tagged: ☐
Set	55	sks cmt from	1800	ft. to	1100	ft.	Plug Type:	CASING	Plug Tagged: ☐
Set	80	sks cmt from	260	ft. to	0	ft.	Plug Type:	CASING	Plug Tagged: ☐
Set		sks cmt from		ft. to		ft.	Plug Type:		Plug Tagged: ☐

Perforate and squeeze at 4370 ft. with 95 sacks. Leave at least 100 ft. in casing 4340 CICR Depth

Perforate and squeeze at 2800 ft. with 95 sacks. Leave at least 100 ft. in casing 2770 CICR Depth

Perforate and squeeze at 1800 ft. with 165 sacks. Leave at least 100 ft. in casing ____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 120 sacks half in. half out surface casing from 755 ft. to 604 ft. Plug Tagged: ☐

Set 80 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:

BMPs
Signage for P&As:
Prior to commencing operations, KMG will post signs in conspicuous locations. The signs will indicate plugging and abandonment operations are being conducted, the well name, well, and the Operator's contact information. Signs will be placed so as not to create a potential traffic hazard.
Notifications:
Courtesy notifications will be sent to all parcel owners with building units within 1,500 feet of the location letting them know about our plugging and abandonment operations and providing contact information for Kerr McGee's response line and online resources.
Wellbore Pressure:
In some cases, wellbore pressure drawdown operations may occur approximately 1-2 days prior to Move In Rig Up (MIRU) of the workover rig. This is conducted to allow for reduced time that the workover rig is needed on location. These operations will be conducted in accordance with Form 4 and/or Form 6 requirements.
Water:
Water will be placed on dirt access roads to mitigate dust as needed.
Lighting:
Operations are daylight-only; no lighting impacts are anticipated from operations.
Noise:
Operations will be in compliance with Table 423-1 requirements. Based off the rig sound signature, rig orientation will be considered to reduce noise levels to nearby building units.
Environmental Concerns:
This location was reviewed using a desktop method to review publicly available wildlife data (including CPW & COGCC data) as well as internal wildlife datasets and aerial imagery. No risks were identified. All field personal are trained to identify wildlife risks and raise concerns noticed during operations with the Health, Safety, and Environment (HSE) department.

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

Signed: Print Name: Lindsay Davis

Title: Regulatory Tech Date: 10/5/2022 Email: Lindsay_Davis@oxy.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: Haverkamp, Curtis Date: 10/11/2022

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 4/10/2023

COA Type	Description
	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. 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 COGCC Spill/Release Report, Form 19, associated with the abandoned line.
	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. 2) Prior to placing the 755' plug: verify that all fluid (liquid and gas) migration has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders. 3) After isolation has been verified, pump surface casing shoe plug. If surface casing cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 604' or shallower and provide a minimum of 10 sx plug at the surface. 4) Leave at least 100' of cement in the wellbore for each plug without mechanical isolation. 5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA listed above has been addressed.
	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. If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.
	COA's provided by the operator as Best Management Practices under Technical Detail/ Comments: Operations will be in compliance with Table 423-1 requirements. Based off the rig sound signature, rig orientation will be considered to reduce noise levels to nearby building units.
	COA's provided by the operator as Best Management Practices under Technical Detail/ Comments: Courtesy notifications will be sent to all parcel owners with building units within 1,500 feet of the location letting them know about our plugging and abandonment operations and providing contact information for Kerr McGee's response line and online resources.
	COA's provided by the operator as Best Management Practices under Technical Detail/ Comments: Prior to commencing operations, KMG will post signs in conspicuous locations. The signs will indicate plugging and abandonment operations are being conducted, the well name, well, and the Operator's contact information. Signs will be placed so as not to create a potential traffic hazard.
6 COAs	

Attachment List

Att Doc Num	Name
403188177	FORM 6 INTENT SUBMITTED
403188195	PROPOSED PLUGGING PROCEDURE
403188196	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	DWR base of Fox Hills: 545' Deepest water well within 1 mile: 430' Bradenhead history: 1 psi, 2/16/2022	10/11/2022
OGLA	OGLA review is complete.	10/11/2022
Permit	Type of GPS Quality Value missing - selected PDOP from dropdown box Email verified: Designated Agent listed as Lindsay Davis - married name for Lindsay Frase Verified as drilled lat/long - Google Earth/COGIS maps Verified completed intervals (Docs 12325465 (2), 12325465) Verified production reporting Review complete and task passed	10/10/2022

Total: 3 comment(s)