

FORM
6Rev
11/20

State of Colorado

Energy & 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:

403662903

Date Received:

02/14/2024

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: 18600

Contact Name: Kevin Lively

Name of Operator: COLORADO INTERSTATE GAS COMPANY LLC

Phone: (970) 380-6011

Address: P O BOX 1087

Fax:

City: COLORADO State: CO Zip: 80944

Email: kevin_lively@kindermorgan.com

For "Intent" 24 hour notice required,

Name: Welsh, Brian

Tel: (719) 325-6919

ECMC contact:

Email: brian.welsh@state.co.us

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

API Number 05-009-06263-00

Well Name: FLANK

Well Number: 45

Location: QtrQtr: NESW Section: 5 Township: 34S Range: 42W Meridian: 6

County: BACA

Federal, Indian or State Lease Number: 8322

Field Name: FLANK

Field Number: 24051

Only Complete the Following Background Information for Intent to Abandon

Latitude: 37.110755

Longitude: -102.192591

GPS Data: GPS Quality Value: 4.1 Type of GPS Quality Value: PDOP Date of Measurement: 09/22/2009

Reason for Abandonment: ☐ Dry ☐ Production Sub-economic ☐ Mechanical Problems☒ Other Not needed for gas storage use.Casing 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
MORROW	4608	4640			

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	17+1/4	13+3/8	K55	54.5	0	133		133		
1ST	13+3/4	9+5/8	K55	36	0	85		85		
1ST LINER	9+5/8	5+1/2	K55	15.5	0	85				
1ST TAPER	7+7/8	5+1/2	K55	15.5	85	4688	1025	4688	0	VISU
TAPER	12+1/4	8+5/8	K55	24	133	1426	900	1426	0	VISU

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 20 sks cmt from 4650 ft. to 4500 ft. Plug Type: CASING Plug Tagged: ☒
Set 20 sks cmt from 2550 ft. to 2400 ft. Plug Type: CASING Plug Tagged: ☒
Set 60 sks cmt from 500 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 _____ 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 20 sacks half in. half out surface casing from 1476 ft. to 1376 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 Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____
Surface Plug Setting Date: _____ Cut and Cap Date: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

03/19/80: Top job through 50' of 1" pipe w/100 sx (Surface Casing).

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

Signed: _____ Print Name: Anthony Trinko
Title: Sr. Reservoir Engineer Date: 2/14/2024 Email: anthony_trinko@kindermorgan.com

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

ECMC Approved: Wolfe, Stephen Date: 3/19/2024

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 9/18/2024

COA Type	Description
	<p>Bradenhead Testing</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>If applicable, 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>Plugging</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.</p> <p>2) Plugs and squeezes will be placed as stated in the Plugging Procedure section of the approved NOIA unless revised by COA or prior approval from ECMC is obtained.</p> <p>3) The wellbore must be static prior to placing cement plugs which are to be a minimum of 100' in length for all but surface plugs. Mechanical isolation requires a 25' cement plug, minimum. For plugs not specified to be tagged, a tag is required if circulation is not maintained while pumping plug and displacing to depth. Wait on cement(WOC) a minimum of 4 hrs before tagging a plug. Tag at tops specified or shallower. Notify ECMC Area Engineer before adding cement to previous plug due to low cement top.</p> <p>4) Place a 50' plug (minimum) at the surface, both inside the inner most casing and in all annular spaces. Surface plugs shall be circulated to surface. Confirm cement to surface and complete isolation in all strings during cut and cap. 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>5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p> <p>6) No current Form 17 on file with ECMC. Contact ECMC area engineer with results of pre-plugging bradenhead test for confirmation of plugging procedure prior to commencing plugging operations.</p> <p>7) Operator must wait a sufficient time on all plugs to achieve the intended design. If at any time during the plugging there is evidence of previously unreported pressure or fluid migration, contact ECMC Area Engineer before continuing operations.</p> <p>8) Plugging procedure has been modified as follows,</p> <p>Plug #1 - 4650-4500', 20 sx casing plug, WOC and tag,</p> <p>Plug #2 - 2550-2400', 20 sx casing plug, WOC and tag,</p> <p>Plug #3 - 1476-1326', 20 sx casing plug, WOC and tag,</p> <p>Plug #4 - 500-0', 60 sx casing plug, WOC and tag, Note change,</p> <p>Plug #5 - 50' of cement at the surface in both the casing and the annulli per COA #4.</p>

	<p>CPW and Operator consulted and CPW stated the following: Within mapped focal area CPW generally does not want P&A activities occurring during the lekking and brood rearing time period for this federal and state listed threatened species. The operator is requesting to work during the time period from March 1 to July 15th. The location of the well is within a fairly dense well field where existing disturbance would limit lesser prairie chicken use of the site. The nearest known lek is more than 5 miles away so added noise from equipment associated with P&A activities is unlikely to impact leks at that distance. If work is confined to the area of existing disturbance CPW has no additional conditions or BMPs to request for work at this location if work must occur during the March 1 - July 15th time period. This assessment does not necessarily apply to any other well locations in Baca within Focal Area and CPW would request to review any other locations prior to Form 6 approval.</p>
	<p>This oil and gas location is within CPW-mapped High Priority Habitat for Lesser Prairie Focal Area. Plugging and abandonment (P&A) activities should not take place from March 1 to July 15. If site conditions warrant that P&A activities must occur between March 1 and July 15, the operator will consult with CPW to develop site specific avoidance, minimization, or mitigation measures prior to conducting any activities.</p>
	<p>Due to the proximity to a mapped wetland, operator will use secondary containment for all tanks and other liquid containers. Operator will implement stormwater BMPs and erosion control measures to prevent sediment and stormwater runoff from entering the wetlands.</p>
7 COAs	

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403662903	WELL ABANDONMENT REPORT (INTENT)
403685892	WELLBORE DIAGRAM
403687216	WELLBORE DIAGRAM
403725238	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Groundwater: High Plains Deepest Water Well: 400'(1mi, 24 records) Log: 009-06263 3/24/80 GR=3775 GW covered by surface casing	03/19/2024
OGLA	Location Assessment Specialist (LAS) review complete.	03/19/2024
Permit	Missing current wellbore diagram. Returned to draft.	02/14/2024

Total: 3 comment(s)