

FORM
6Rev
11/20

State of Colorado

Energy & Carbon Management Commission

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DE ET OE ES

Document Number:

403346149

Date Received:

04/26/2023

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: 95620

Contact Name: Steve James

Name of Operator: WESTERN OPERATING COMPANY

Phone: (303) 726-8650

Address: 1165 DELAWARE STREET #200

Fax:

City: DENVER State: CO Zip: 80204

Email: steve@westernoperating.com

For "Intent" 24 hour notice required,

Name: Welsh, Brian

Tel: (719) 325-6919

COGCC contact:

Email: brian.welsh@state.co.us

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

API Number 05-061-06010-00

Well Name: FOSTER

Well Number: 1

Location: QtrQtr: NENW Section: 15 Township: 19S Range: 45W Meridian: 6

County: KIOWA

Federal, Indian or State Lease Number:

Field Name: BRANDON

Field Number: 7500

Only Complete the Following Background Information for Intent to Abandon

Latitude: 38.409810

Longitude: -102.447940

GPS Data: GPS Quality Value: 2.3 Type of GPS Quality Value: PDOP Date of Measurement: 10/30/2006

Reason for Abandonment: ☐ Dry ☐ Production Sub-economic ☐ Mechanical Problems☒ Other Reducing well countCasing 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
OSAGE	4858	4866			
SPERGEN	4704	4739			
ST LOUIS	4628	4699			
WARSAW	4783	4826			

Total: 4 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	NA	24	0	194	175	194	0	VISU
1ST	7+7/8	5+1/2	NA	15.5	0	4889	100	4889	4260	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4528 with 3 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 6 sks cmt from 3875 ft. to 3825 ft.

Plug Type: CASING

Plug Tagged: ☐

Set 6 sks cmt from 3150 ft. to 3100 ft.

Plug Type: CASING

Plug Tagged: ☐

Set 6 sks cmt from 1500 ft. to 1450 ft.

Plug Type: CASING

Plug Tagged: ☐

Set 6 sks cmt from 750 ft. to 700 ft.

Plug Type: CASING

Plug Tagged: ☐

Set _____ sks cmt from _____ ft. to _____ ft.

Plug Type: _____

Plug Tagged: ☐

Perforate and squeeze at 3925 ft. with 35 sacks. Leave at least 100 ft. in casing 3875 CICR Depth

Perforate and squeeze at 3200 ft. with 35 sacks. Leave at least 100 ft. in casing 3150 CICR Depth

Perforate and squeeze at 1550 ft. with 80 sacks. Leave at least 100 ft. in casing 1500 CICR Depth

(Cast Iron Cement Retainer Depth)

Set _____ sacks half in. half out surface casing from _____ ft. to _____ ft.

Plug Tagged: ☐

Set 15 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:

Site exists within Lesser Prairie Chicken CPW Buffers. Work to be completed outside of March 1 to July 15 per CPW consult with Karen Voltura

Initial Form 27 work plan and related flowline Form 42/44 documentation will be completed by Entrada Consulting Group

Additional plugs:

Perf and squeeze at 750', squeeze 40 sacks. Leave at least 100' in casing, CICR at 700'

Perf and squeeze at 294', circulate 81 sacks to the surface.

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

Signed: _____

Print Name: Ben Baugh

Title: Senior Geologist

Date: 4/26/2023

Email: bbaugh@entradainc.com

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

CONDITIONS OF APPROVAL, IF ANY:Expiration Date: 1/29/2024**COA Type****Description**

	<p>This oil and gas location is within CPW-mapped High Priority Habitat for Lesser Prairie Chicken Estimated Occupied Range and Lesser Prairie Chicken 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>Bradenhead Testing 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. 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>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 COGCC Spill/Release Report, Form 19, associated with the abandoned line.</p>

Plugging
 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.
 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 COGCC is obtained.
 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. Tag at tops specified or shallower. Notify COGCC Area Engineer before adding cement to previous plug.
 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 in all strings during cut and cap.
 5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.
 6) 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 COGCC Area Engineer before continuing operations.
 7) Plugging procedure has been modified as follows,
 Plug #1 - 4528', CIBP with 4 sx of cement. MSSP
 Plug #2 - 3925', perf and squeeze 35 sx into the CICR at 3875'. Leave 6 sx on top of the CICR. MRTN
 Plug #3 - 3200', perf and squeeze 35 sx into the CICR at 3150'. Leave 6 sx on top of the CICR. SHWNE
 Plug #4 - 1550', perf and squeeze 80 sx into the CICR at 1500'. Leave 6 sx on top of the CICR. CYNN
 Plug #5 - 750', perf and squeeze 35 sx into the CICR at 700'. Leave 6 sx on top of the CICR. DKTA
 Plug #6 - 294', perf and circulate 81 sx of cement to surface. If perfs will take fluid but do not circulate or circulation is lost, pump a minimum of 50 sx and displace to 144', 100' above the surface shoe, WOC and tag. Notify COGCC Area Engineer of insufficient cement prior to pumping additional plugs.
 Plug #7 - 50' of cement at the surface in both the casing and the annulus per COA #4.
 8) Submit corrected WBD to correspond with approved 6(N) prior to filing Form 42
 Notifications required in COA #1 above.

5 COAs

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403346149	WELL ABANDONMENT REPORT (INTENT)
403385972	WELLBORE DIAGRAM
403480766	FORM 6 INTENT SUBMITTED

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	OGLA review is complete.	07/24/2023
Engineer	Groundwater=High Plains Aquifer, Dakota-Cheyenne Deepest water well=890'(3mi, 11 records) Logs=061-06005 5/3/67 3910' GR - Dakota 735-980', Cheyenne 1030-1130'	05/16/2023
Permit	Perforation record matches historical submission, doc: 554543.	05/03/2023

Total: 3 comment(s)