

Document Number:  
 403736650  
 Date Received:  
 04/01/2024

**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: 10487 Contact Name: Deborah Abrams  
 Name of Operator: SPRINGDALE PARTNERS LLC Phone: (303) 8942100  
 Address: 3409 MONTECLAIRE DR Fax: \_\_\_\_\_  
 City: SHERMAN State: TX Zip: 75092 Email: deborah.abrams@state.co.us  
**For "Intent" 24 hour notice required,** Name: Schure, Kym Tel: (970) 520-3832  
 Email: kym.schure@state.co.us  
**ECMC contact:** \_\_\_\_\_

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

API Number 05-075-08176-00  
 Well Name: SPRINGDALE STORAGE Well Number: 5 (OWP)  
 Location: QtrQtr: SENE Section: 16 Township: 8N Range: 53W Meridian: 6  
 County: LOGAN Federal, Indian or State Lease Number: OG 63/59  
 Field Name: SPRINGDALE Field Number: 78300

*Only Complete the Following Background Information for Intent to Abandon*

Latitude: 40.662210 Longitude: -103.298920  
 GPS Data: GPS Quality Value: 2.2 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 12/18/2013  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other OWP  
 Casing to be pulled:  Yes  No Estimated Depth: \_\_\_\_\_  
 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
D SAND	4779	4780	12/14/1969	SQUEEZED	
J SAND	4860	4877			

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	UNK	24	0	510	325	510	0	VISU
1ST	7+7/8	5+1/2	UNK	15.5	0	4965	225	4965	3340	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4705 with 3 sacks cmt on top. CIBP #2: Depth 3854 with 3 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 590 ft. to 460 ft. Plug Type: CASING Plug Tagged:   
Set 10 sks cmt from 1305 ft. to 1205 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:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Perforate and squeeze at 1395 ft. with 40 sacks. Leave at least 100 ft. in casing 1305 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 30 sacks half in. half out surface casing from 590 ft. to 460 ft. Plug Tagged:   
Set 25 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:

Date of DSND squeeze is unknown. Reported in doc #1734344.

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

Signed: \_\_\_\_\_ Print Name: Deborah Abrams  
Title: OWP Date: 4/1/2024 Email: deborah.abrams@state.co.us

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: Wolfe, Stephen Date: 4/11/2024

### CONDITIONS OF APPROVAL, IF ANY LIST

Expiration Date: 10/10/2024

<b>COA Type</b>	<b>Description</b>
	<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 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>

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 ECMC 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. 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.
- 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 6 SRA which method was used and what was observed. Retain records of final isolation test for 5 years.
- 5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.
- 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.
- 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.
- 8) Plugging procedure has been modified as follows,  
 Plug #1 - 4705', CIBP with 3 sx of cement on top,  
 Plug #2 - 3854', CIBP with 3 sx of cement on top,  
 Test casing,  
 Run CBL to confirm TOC,  
 Plug #3 - 1395', perf and squeeze 40 sx through a CICR set at 1305', spot an additional 10 sx on top of the CICR,  
 Plug #4 - 590', perf and squeeze 50 sx of cement, displace to 427', WOC and tag at 452' or shallower. Notify ECMC Area Engineer of insufficient cement prior to pumping additional plugs.  
 Plug #5 - Minimum of 50' of cement at the surface in both the casing and the annulus per COA #4.
- 9) Submit any logs run during the plugging with the Form 6 SRA.

4 COAs

**ATTACHMENT LIST**

<b>Att Doc Num</b>	<b>Name</b>
2138475	WELLBORE DIAGRAM
403736650	WELL ABANDONMENT REPORT (INTENT)
403751738	FORM 6 INTENT SUBMITTED

Total Attach: 3 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Groundwater=Alluvium, Upper Pierre Deepest water well=540'(1mi, 35 records) Logs=075-09247 6/25/92 GR=4181' UP at the SC shoe, UP base 850'	04/11/2024
Permit	Confirmed as-drilled well location. No other forms in process. Production reporting up-to-date. Reviewed WBDs. Pass.	04/08/2024
OGLA	LAS review completed. Well is not in an HPH. No wetlands of concern. No RBU's within 1000 feet.	04/02/2024
Permit	According to docum 1734342, the Jsand interval is from 4860-4877 KB. the Dsand from 4779-4780 KB. See also docum: 1734344. RTD.	04/01/2024

Total: 4 comment(s)