



<div>FORM</div> <div>6</div> <div>Rev 11/20</div>	<div>State of Colorado</div> <div>Energy & Carbon Management Commission</div> <div>1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109</div>		<div><div></div></div>		<div>DE</div> <div>ET</div> <div>OE</div> <div>ES</div>
	<div>Document Number:</div> <div>403736396</div> <div>Date Received:</div> <div>03/29/2024</div>				

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 Abram	
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
ECMC contact:		Email: kym.schure@state.co.us	

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

API Number 05-075-05869-00		Well Number: 1 (OWP)	
Well Name: SPRINGDALE STORAGE			
Location: QtrQtr: NENW	Section: 15	Township: 8N	Range: 53W Meridian: 6
County: LOGAN	Federal, Indian or State Lease Number:		
Field Name: SPRINGDALE	Field Number: 78300		

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.665780	Longitude: -103.289400		
GPS Data: GPS Quality Value: 2.8	Type of GPS Quality Value: PDOP	Date of Measurement: 12/18/2013	
Reason for Abandonment: <input type="checkbox"/> Dry <input type="checkbox"/> Production Sub-economic <input type="checkbox"/> Mechanical Problems			
<input checked="" type="checkbox"/> Other OWP			
Casing to be pulled: <input type="checkbox"/> Yes <input type="checkbox"/> No	Estimated Depth:		
Fish in Hole: <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, explain details below		
Wellbore has Uncemented Casing leaks: <input type="checkbox"/> Yes <input type="checkbox"/> 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	4840	4847			
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	UNK	UNK	0	614	275	614	0	VISU
1ST	7+7/8	5+1/2	UNK	UNK	0	4905	100	4905	4500	CALC

Date Run: 4/11/2024 Doc [#403736396] Well Name: SPRINGDALE STORAGE 1 (OWP)

Page 1 of 5

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4765 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 15 sks cmt from 664 ft. to 564 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: ☐
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐
Perforate and squeeze at 3880 ft. with 40 sacks. Leave at least 100 ft. in casing 3790 CICR Depth
Perforate and squeeze at 1500 ft. with 40 sacks. Leave at least 100 ft. in casing 1410 CICR Depth
Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth
(Cast Iron Cement Retainer Depth)

Set 25 sacks half in. half out surface casing from 664 ft. to 564 ft. Plug Tagged: ☐
Set 35 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:

Surface string hole size is unknown. Entry is an assumption based on the adjacent wells to pass validation.

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: 3/29/2024 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

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>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 6 SRA 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, Plug #1 - 4765', CIBP with 3 sx of cement, Test casing, Run CBL to confirm TOC, Plug #2 - 3880', perf and squeeze 40 sx through a CICR set at 3790', spot an additional 10 sx on top of the CICR, Plug #3 - 1500', perf and squeeze 40 sx through a CICR set at 1410', spot an additional 10 sx on top of the CICR, Plug #4 - 664', perf and pump 40 sx of cement, displace to 514', WOC and tag at 564' or shallower. Notify ECMC Area Engineer of insufficient cement prior to pumping additional plugs, Plug #5 - 50' of cement at the surface in both the casing and the annulus per COA #4.</p> <p>9) Correct the abandoned formation to the J Sand on the Form 6SRA.</p>
	Notification will be given to any adjacent building unit occupants within a 1000 feet of the wellhead of planned P&A start date.
	Due to proximity to riverine/stream, Operator will review the stormwater program and implement stormwater BMPs and erosion control measures as needed to prevent fine-grained sediment and impacted stormwater runoff from entering surface water.
6 COAs	

ATTACHMENT LIST

Att Doc Num

Name

403736396	FORM 6 INTENT SUBMITTED
403736433	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Groundwater=Alluvium, Upper Pierre Deepest water well=620'(2mi, 76 records) Logs=075-09247 6/25/92 GR=4181' UP at the SC shoe, UP base 850'	04/11/2024
Engineer	The formation tops reported are the Muddy(4741') which is actually the D Sand and the Dakota(4837') which is actually the J Sand in the ECMC reporting nomenclature. J Sand is the correct completion for this well and the Zones tab has been changed back to J Sand.	04/11/2024
OGLA	LAS review completed. Well is not in an HPH.	04/02/2024
Permit	Confirmed as-drilled well location. No other forms in process. Interval should be Dakota, however, reported as J-sand on 5A and form 7. Pass.	04/01/2024

Total: 4 comment(s)