

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:

402605396

Date Received:

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: 69175

Contact Name: Valerie Danson

Name of Operator: PDC ENERGY INC

Phone: (970) 506-9272

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: valerie.danson@pdce.com

For "Intent" 24 hour notice required,

Name:

Tel:

COGCC contact:

Email:

Type of Well Abandonment Report:



Notice of Intent to Abandon



Subsequent Report of Abandonment

API Number 05-123-14155-00

Well Name: SCHAFER PM K

Well Number: 16-09

Location: QtrQtr: NESE Section: 16 Township: 4N Range: 66W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 67894

Field Name: WATTENBERG

Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.310219

Longitude: -104.775365

GPS Data: GPS Quality Value: 2.4 Type of GPS Quality Value: Date of Measurement: 10/06/2009

Reason for Abandonment:



Dry



Production Sub-economic



Mechanical Problems

☐ Other

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
NIOBRARA-CODELL	6954	7269	01/19/2021	B PLUG CEMENT TOP	6904

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	J55	24	0	314	165	314	0	VISU
1ST	7+7/8	4+1/2	J55	15.1	0	7415	225	7415	6574	CBL
S.C. 1.1						4710	225	4710	4320	CBL
S.C. 1.2						500	300	500	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6904 with 2 sacks cmt on top. CIPB #2: Depth _____ with _____ sacks cmt on top.
CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 10 sks cmt from 4114 ft. to 3974 ft. Plug Type: CASING Plug Tagged: ☐
Set 10 sks cmt from 1234 ft. to 1094 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 4300 ft. with 90 sacks. Leave at least 100 ft. in casing 4115 CICR Depth
Perforate and squeeze at 1420 ft. with 90 sacks. Leave at least 100 ft. in casing 1235 CICR Depth
Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 50 sacks half in. half out surface casing from 539 ft. to 0 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
Surface Plug Setting Date: 01/19/2021 Cut and Cap Date: 01/28/2021 Number of Days from Setting Surface Plug to Capping or Sealing the Well: 9

*Wireline Contractor: Rocky Mtn Wireline Services *Cementing Contractor: NexTier Cementing Services

Type of Cement and Additives Used: Class G 15.8 PPG Cement

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

Technical Detail/Comments:

Schafer PM K 16-09 (05-123-14155)/Plugging Procedure
 Producing Formation: Niobrara/Codell: 6954'-7269'
 Upper Pierre Aquifer: 360'-1320'
 TD: 7415' PBTD: 7341' (3/10/89)
 Surface Casing: 8 5/8" 24# @ 314' w/ 165 sxs cmt
 Production Casing: 4 1/2" 15.1# @ 7415' w/ 225 sxs cmt (TOC @ 6574' - CBL)
 Annular Fill @ 4710' w/ 225 sxs cmt (TOC @ 4320' - CBL)
 Annular Fill @ 500' w/ 300 sxs cmt (TOC @ Surface - CBL)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6904'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio perms @ 6954')
4. Ran a Strip Log from 4500' to Surface (for perf shot verification, log not kept).
5. TIH with perf gun. Shoot lower squeeze holes at 4300' and upper squeeze holes at 4100'.
6. TIH with CICR. Set CICR at 4115'. RU cementing company. Sting in and pump 100 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 100 sxs) cement on top of CICR. TOC at 3974'.
7. TIH with perf gun. Shoot lower squeeze holes at 1420' and upper squeeze holes at 1220'.
8. TIH with CICR. Set CICR at 1235'. RU cementing company. Sting in and pump 100 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 100 sxs) cement on top of CICR. TOC at 1094'.
9. Pick up tubing to 539'. Mix and pump 50 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
10. Cut surface casing 6' below ground level and weld on cap.

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

Signed: _____ Print Name: Valerie Danson
 Title: Reg Tech Date: _____ Email: valerie.danson@pdce.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: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402605397	CEMENT JOB SUMMARY
402605398	OPERATIONS SUMMARY
402605399	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)