

Document Number:
402155931

Date Received:
08/26/2019

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: _____
 Email: _____

COGCC contact: _____

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

API Number 05-123-19823-00
 Well Name: SLW RANCH Well Number: 34-7
 Location: QtrQtr: SWSE Section: 7 Township: 5N Range: 63W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.407690 Longitude: -104.476890
 GPS Data: GPS Quality Value: 2.0 Type of GPS Quality Value: PDOP Date of Measurement: 09/10/2015
 GPS Instrument Operator's Name: _____ Field _____
 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	6470	6732	08/06/2019	B PLUG CEMENT TOP	6420

Total: 1 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	385	270	385	0	VISU
1ST	7+7/8	3+1/2	9.3	6,979	447	6,979	3,268	CBL
S.C. 1.1				3,268	600	3,268	120	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6420 with 2 sacks cmt on top. CIBP #2: Depth 3900 with 2 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 18 sks cmt from 1700 ft. to 1206 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 105 ft. with 35 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 22 sacks half in. half out surface casing from 600 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. _____ inch casing Cut and Cap Date: 08/07/2019
 of _____
 *Wireline Contractor: C&J Energy Services *Cementing Contractor: C&J Energy Services
 Type of Cement and Additives Used: Type III 14.8 PPG Portland Cement
 Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

SLW Ranch 34-7 (05-123-19823) Plugging Procedure
 Producing Formation: Niobrara/Codell: 6470'-6732'
 Upper Pierre Aquifer: 415'-1450'
 TD: 7000' PBTD: 6949'
 Surface Casing: 8 5/8" 24# @ 385' w/ 270 sxs
 Production Casing: 3 1/2" 9.3# @ 6979' w/ 447 sxs cmt (TOC @ 3268' - CBL).
 Annular Fill @ 3268' w/ 600 sxs cmt (TOC @ 120' - CBL).

Procedure:

1. MIRU pulling unit. Pull 1 1/2" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6420'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 3900'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with perforation gun. Shoot holes for annular squeeze at 105'.
6. TIH with tubing to 1700'. RU cementing company. Mix and pump 18 sxs 14.8#/gal Type III cement down tubing (Pierre coverage from 1700'-1200'). TOC at 1206'.
7. TIH with tubing to 600'. Mix and pump 22 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
8. Close off casing returns. Hook up cement line to cement flange and pump 35 sxs 14.8#/gal Type III cement downhole and squeeze through perforations at 105' into annular space. Cement circulate to surface.
9. 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: 8/26/2019 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: McFarland, Nick

Date: 8/9/2020

CONDITIONS OF APPROVAL, IF ANY:

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

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402155931	FORM 6 SUBSEQUENT SUBMITTED
402156007	CEMENT JOB SUMMARY
402156009	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Pending submission of form 7 PA status.	10/22/2019
Engineer	48 hour ops notice given. 42 filed for flowline abandonment. Most recent form 17 reporting 0 psi on bradenhead. GPS location appears accurate on maps. Zones and casing history are consistent with approved intent. Procedure, WBD and tickets are consistent.	10/22/2019

Total: 2 comment(s)