

FORM
6
Rev
05/18

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
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Date Received: 05/14/2019			

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: _____

API Number 05-123-26702-00 Well Number: 23-36
 Well Name: WELLS RANCH
 Location: QtrQtr: NESW Section: 36 Township: 6N Range: 63W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.441310 Longitude: -104.387940
 GPS Data:
 Date of Measurement: 07/29/2008 PDOP Reading: 2.5 GPS Instrument Operator's Name: HOLLY TRACY
 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
CODELL	6715	6723	04/16/2019	B PLUG CEMENT TOP	6396
NIOBRARA	6544	6558	04/16/2019	B PLUG CEMENT TOP	6396
Total: 2 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	566	400	566	0	VISU
1ST	7+7/8	4+1/2	10.5	6,885	195	6,885	6,610	CBL
S.C. 1.1				6,590	185	6,590	5,900	CBL
			Stage Tool	5,188	560	5,200	318	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6396 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 20 sks cmt from 6025 ft. to 5768 ft. Plug Type: CASING Plug Tagged:
 Set 40 sks cmt from 5438 ft. to 4923 ft. Plug Type: CASING Plug Tagged:
 Set 40 sks cmt from 1900 ft. to 1304 ft. Plug Type: CASING Plug Tagged:
 Set 52 sks cmt from 775 ft. to 0 ft. Plug Type: CASING Plug Tagged:
 Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 300 ft. with 63 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 _____ sacks half in. half out surface casing from _____ ft. to _____ 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: 04/17/2019
 of _____

*Wireline Contractor: C&J Energy Services *Cementing Contractor: C&J Energy Services

Type of Cement and Additives Used: Class G 15.8 PPG Cement & Type III 14.8 PPG Portland Cement

Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Wells Ranch 23-36 (05-123-26702)/Plugging Procedure
 Producing Formation: Codell: 6715'-6723' Niobrara: 6544'-6558'
 Upper Pierre Aquifer: 570'-1670'
 TD: 7360' PBSD: 6858.3'
 Surface Casing: 8 5/8" 24# @566' w/ 400 sxs
 Production Casing: 4 1/2" 10.5# @ 6885.6' w/ 195 sxs cmt (TOC @ 6610' – CBL).
 Cement squeeze @ 6590' w/ 185 sxs cmt (6610'- 5900' – CBL).
 2nd stage cement @ 5200' w/ 560 sxs cmt (TOC @ 318' – CBL) with DV Tool at 5188'.

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6396'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with perforation gun. Shoot holes for annular squeeze at 300'.
5. TIH with tubing to 6025'. RU cementing company. Mix and pump 20 sxs 15.8#/gal CI G cement down tubing. (Upper squeeze hole perf coverage from 6025'-5775'). TOC at 5768'.
6. Pick up tubing to 5438'. Mix and pump 40 sxs 15.8#/gal CI G cement down tubing. (DV Tool coverage from 5438'-4938'). TOC at 4923'.
7. Pick up tubing to 1900'. Mix and pump 40 sxs 14.8#/gal Type III cement down tubing. (Pierre coverage from 1900'-1400'). TOC at 1304'.
8. TIH with tubing to 775'. Mix and pump 52 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
9. Close off casing returns. Hook up cement line to cement flange and pump 63 sxs 14.8#/gal Type III cement downhole and squeeze through perforations at 300' into annular space. 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: 5/14/2019 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: Jacobson, Eric Date: 1/28/2020

CONDITIONS OF APPROVAL, IF ANY:

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

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402043877	FORM 6 SUBSEQUENT SUBMITTED
402043941	CEMENT JOB SUMMARY
402043945	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)