

Document Number:
 402121219
 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: Silver, Randy Tel: (720) 827-6688
COGCC contact: Email: randy.silver@state.co.us

API Number 05-123-23769-00 Well Number: 44-36
 Well Name: KIRBY
 Location: QtrQtr: SWSE Section: 36 Township: 1N Range: 67W 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: 40.002190 Longitude: -104.836520
 GPS Data:
 Date of Measurement: 04/09/2009 PDOP Reading: 2.7 GPS Instrument Operator's Name: ROBERT D. THOMAS
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 1550
 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
J SAND	8266	8296			
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	1,139	800	1,139	0	VISU
1ST	7+7/8	4+1/2	11.6	8,427	300	8,427	6,850	CBL
			Stage Tool	5,344	220	5,344	4,370	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8216 with 2 sacks cmt on top. CIBP #2: Depth 7755 with 2 sacks cmt on top.
 CIBP #3: Depth 7310 with 2 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 <u>62</u> sks cmt from <u>5450</u> ft. to <u>4633</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>139</u> sks cmt from <u>1600</u> ft. to <u>1080</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input type="checkbox"/>
Set <u>202</u> sks cmt from <u>660</u> ft. to <u>0</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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
 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 Plugging Date: _____
 of _____
 *Wireline Contractor: _____ *Cementing Contractor: _____
 Type of Cement and Additives Used: _____
 Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Kirby 44-36 (05-123-23769) Plugging Procedure (Intent)
 Producing Formation: J-Sand: 8266'-8296'
 Upper Pierre Aquifer: 560'-1440'
 TD: 8465' PBTD: 8420' (7/19/2006)
 Surface Casing: 8 5/8" 24# @ 1139' w/ 800 sxs
 Production Casing: 4 1/2" 11.6# @ 8427' w/ 300 sxs cmt (Lower cement @ 6850'-8427' - CBL)
 DV Tool @ 5344' w/ 220 sxs cmt (TOC @ 4370' - CBL)

Tubing: 2 3/8" tubing set @ 8245' (7/19/2006)
 Proposed Procedure:
 1. MIRU pulling unit. Pull 2 3/8" tubing.
 2. RU wireline company.
 3. TIH with CIBP. Set BP at 8216'. Top with 2 sxs 15.8#/gal CI G cement. (Top of J-Sand perms @ 8266')
 4. TIH with CIBP. Set BP at 7755'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell est. 7805')
 5. TIH with CIBP. Set BP at 7310'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara est. 7360')
 6. TIH with tubing to 5450'. RU cementing company. Mix and pump 62 sxs 15.8#/gal CI G cement down tubing (DV tool and Sussex coverage from 5450'-4633', Top of Sussex est. 4750').
 7. TIH with casing cutter. Cut 4 1/2" casing at 1550'. Pull cut casing.
 8. TIH with tubing to 1600'. RU cementing company. Mix and pump 139 sxs 15.8#/gal CI G cement down tubing (Pierre coverage from 1550'-1080').
 9. Pick up tubing to 660'. Mix and pump 202 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface (Pierre coverage from 660'-surface). TOOH with tubing.
 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: _____

Expiration Date: _____

COA Type	Description

Attachment Check List

Att Doc Num	Name
402121228	WELLBORE DIAGRAM
402121229	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

User Group	Comment	Comment Date
Engineer	Proposed WBD missing completion data. RTD	09/02/2019
Permit	Ready to pass form. Confirmed as drilled lat/long is accurate. Final Form 5/Drilling Completion Report on file as doc# 1945194. J Sand formation completion confirmed via Form 5A/Completed Interval Report(s): doc# 1945195. Confirmed Form 7 production reporting is not accurate. Form 7 production reporting issues sent to COGCC Production staff.	07/29/2019

Total: 2 comment(s)