

Document Number:
400867023

Date Received:
07/13/2015

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: Jenifer Hakkarinen

Name of Operator: PDC ENERGY INC Phone: (303) 8605800

Address: 1775 SHERMAN STREET - STE 3000 Fax: _____

City: DENVER State: CO Zip: 80203 Email: Jenifer.Hakkarinen@pdce.com

For "Intent" 24 hour notice required, Name: Rickard, Jeff Tel: (720) 305-8280

COGCC contact: Email: jeffrey.rickard@state.co.us

API Number 05-123-12787-00

Well Name: BOWEN Well Number: 1

Location: QtrQtr: NESE Section: 25 Township: 4N Range: 67W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 68137

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: 40.281087 Longitude: -104.831610

GPS Data:
Date of Measurement: 02/10/2010 PDOP Reading: 2.2 GPS Instrument Operator's Name: Brandon Lucason

Reason for Abandonment: Dry Production for Sub-economic Mechanical Problems
 Other _____

Casing to be pulled: Yes No Estimated Depth: 6450

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	7274	7284	08/05/2014	B PLUG CEMENT TOP	6910
NIOBRARA	6958	7148	08/05/2014	B PLUG CEMENT TOP	6910

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	328	250	328	0	VISU
1ST	7+7/8	4+1/2	11.6	7,390	200	7,390	6,490	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ 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	50	sks cmt from	6450	ft. to	6320	ft.	Plug Type: STUB PLUG	Plug Tagged: <input checked="" type="checkbox"/>
Set	200	sks cmt from	5000	ft. to	4400	ft.	Plug Type: OPEN HOLE	Plug Tagged: <input checked="" 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"/>
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 330 sacks half in. half out surface casing from 900 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 Plugging Date: _____
 *Wireline Contractor: _____ *Cementing Contractor: _____
 Type of Cement and Additives Used: _____
 Flowline/Pipeline has been abandoned per Rule 1103 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Bowen #1 (05-123-12787)/Plugging Procedure (Intent)
 Producing formation: Niobrara-Codell
 Existing Perforations: Niobrara 6958'-7148'; Codell 7274'-7284'
 TD: 7390' PBDT: 7346'
 Surface Casing: 8 5/8" 24# @ 328' w/ 250 sks cmt.
 Production Casing: 4 1/2" 11.6# @ 7390' w/ 200 sks cmt (TOC 6490').

Existing CIBP: at 6910' with 2 sxs cmt.
 Proposed Procedure:
 1. MIRU. Pull tubing.
 2. TIH with casing cutter. Cut off 4 1/2" casing at 6450'. Pull 4 1/2" casing.
 3. TIH with tubing to 6500'. RU cementers. Mix and pump 50 sxs of 15.8#/gal CI G cement.
 4. Reset tubing at 5000'. RU cementers. Mix and pump 200 sxs of 15.8#/gal CI G cement
 4. Reset tubing at 900'. RU cementers. Mix and pump 330 sxs of 15.8#/gal CI G cement. Cement should circulate.
 5. 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: Jenifer Hakkarinen
 Title: Regulatory Tech Date: 7/13/2015 Email: Jenifer.Hakkarinen@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: JENKINS, STEVE Date: 7/21/2015

<u>COA Type</u>	<u>Description</u>
	Note changes to plugging procedure: 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For 900' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be 228' or shallower and provide 10 sx plug at the surface. Leave at least 100' cement in the casing for each plug. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400867023	FORM 6 INTENT SUBMITTED
400867028	WELLBORE DIAGRAM
400867029	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 4/7/1986.	7/20/2015 9:12:04 AM

Total: 1 comment(s)