

FORM
6
Rev
12/05

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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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 05-123-13304-00 Well Name: BERNHARDT Well Number: 7-1
 Location: QtrQtr: SWNW Section: 7 Township: 4N Range: 66W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: 68407
 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: 40.328420 Longitude: -104.827690
 GPS Data:
 Date of Measurement: 09/25/2010 PDOP Reading: 2.2 GPS Instrument Operator's Name: Holly L. 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	7207	7270			
NIOBRARA	6892	7183			

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	310	200	310	0	VISU
1ST	7+7/8	2+7/8	6.5	7,310	500	7,310	5,502	CBL
S.C. 1.1				1,500	450	1,500	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6840 with 2 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 _____ 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:
 Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:
 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 17 sacks half in. half out surface casing from 500 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:

Bernhardt #7-1 (05-123-13304)/Plugging Procedure (Intent)
 Producing formation: Niobrara/Codell
 Existing Perforations: Niobrara/Codell - 6,892'-7,270'
 TD: 7,310' PBTD: 7,295'
 Surface Casing: 8 5/8" 24# @ 310' w/ 200 sks cmt.
 Production Casing: 2 7/8" 6.5# @ 7310' w/ 500 sks cmt & annular fill w/ 450 sks cmt (TOC at surface).
 Proposed Procedure:
 1. MIRU pulling unit.
 2. Confirm well is dead. Kill well if necessary.
 3. TIH with 1.9" or appropriate workstring. Expect to encounter sand on top of plug at 6,770'.
 4. Circulate sand off plug. Retrieve RBP. TOOH with workstring and LD RBP.
 5. RU wireline. RIH with Gyro and acquire from 7,250' to surface.
 6. Rig up wireline. RIH with CIBP. Set CIBP at 6,840'. Load dump bailer with 2sx of 15.8#/gal CI G cement. TIH with dump bailer and spot on top of CIBP.
 7. RD WL.
 8. TIH with workstring to 500'. Circulate and condition well in preparation to pump cement plug.
 9. RU cementers. Mix and pump 500' of cement with 17 sks of 15.8#/gal CL G cement. Cement should circulate to surface.
 10. POOH tbg.
 11. 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: 12/4/2015 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 by _____
JEWELL, STEVE

COGCC Approved: _____

Date: 1/4/2016

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 7/3/2016

COA Type

Description

	Note changes to plugging procedure: 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For 500' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be 210' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the casing for each plug. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.
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Attachment Check List

Att Doc Num

Name

400948223	FORM 6 INTENT SUBMITTED
400948238	WELLBORE DIAGRAM
400948241	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Permit	Per operator separated Niobrara formation and added perms of 6892-7183 and added Codell formation perms of 7207-7270. Permitting Review Complete.	12/30/2015 3:49:53 PM
Permit	ON HOLD: requesting separate tob and bottom perms for the Niobrara and the Codell formations.	12/28/2015 2:01:55 PM
Permit	Well Completion Report dated 5/14/1987	12/28/2015 2:01:52 PM
Public Room	Document verification complete 12/7/15	12/7/2015 3:03:56 PM

Total: 4 comment(s)