

Document Number:  
402579206

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: 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: Santistevan, Brittani Tel: (720) 471-1110  
**COGCC contact:** Email: brittani.santistevan@state.co.us

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

API Number 05-123-24594-00  
 Well Name: GROVES Well Number: 44-34  
 Location: QtrQtr: SESE Section: 34 Township: 7N Range: 65W 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: 40.524530 Longitude: -104.641420  
 GPS Data: GPS Quality Value: 2.8 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 01/22/2007

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	6870	7160			

Total: 1 zone(s)

**Casing History**

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J-55	24	0	677	480	677	0	VISU
1ST	7+7/8	4+1/2	J-55	10.5	0	7331	725	7331	225	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6820 with 2 sacks cmt on top. CIBP #2: Depth 3730 with 2 sacks cmt on top.  
CIBP #3: Depth 2500 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 31 sks cmt from 1560 ft. to 1160 ft. Plug Type: CASING Plug Tagged:   
Set 68 sks cmt from 877 ft. to 0 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:

Perforate and squeeze at 200 ft. with 41 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. of \_\_\_\_\_ inch casing Number of Days from Setting Surface Plug to Capping or Sealing the Well: \_\_\_\_\_  
Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

### Technical Detail/Comments:

Groves 44-34 (05-123-24594)/Plugging Procedure (Intent)  
Producing Formation: Niobrara/Codell: 6870'-7160'  
Water Well (1-mile): 332'  
Upper Pierre Aquifer: 380'-1360'  
TD: 7352' PBD: 7314' (2/6/2007)  
Surface Casing: 8 5/8" 24# @ 677' w/ 480 sx cmt  
Production Casing: 4 1/2" 10.5# @ 7331' w/ 725 sx cmt (CBL)

Tubing: 2 3/8" tubing set @ 7138' (2/6/2007)

#### Proposed Procedure:

1. MIRU.
2. Pull tubing.
3. RU wireline.
4. RIH with CIBP. Set BP at 6820'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 6856')
5. RIH with CIBP. Set BP at 3730'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Parkman @ 3780')
6. RIH with CIBP. Set BP at 2500'. Top with 2 sxs 15.8#/gal CI G cement.
7. RIH with perf gun. Shoot squeeze holes @ 200'.
8. TIH with tubing to 1560'. RU cementing company. Mix and pump 31 sxs 15.8#/gal CI G cement down tubing (Pierre coverage 1160'-1560').
9. PU tubing to 877'. Mix and pump 68 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface. LD tubing.
10. Close off casing returns. Hook up cement line to cement flange and pump 41 sxs 15.8#/gal CI G cement downhole and squeeze through perforations into annular space. Cement should circulate to surface.
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: Reg Tech Date: \_\_\_\_\_ 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: \_\_\_\_\_ Date: \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: \_\_\_\_\_

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

**Attachment List**

<u>Att Doc Num</u>	<u>Name</u>
402579225	WELLBORE DIAGRAM
402579226	WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)