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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: Gomez, Jason Tel: (970) 573-1277  
 COGCC contact: Email: jason.gomez@state.co.us

API Number 05-123-11335-00 Well Number: 1-23  
 Well Name: TWO E RANCH  
 Location: QtrQtr: SESE Section: 23 Township: 3N Range: 64W 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: 40.206610 Longitude: -104.512310  
 GPS Data:  
 Date of Measurement: 10/11/2010 PDOP Reading: 1.5 GPS Instrument Operator's Name: Steve Cure  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_  
 Casing to be pulled:  Yes  No Estimated Depth: 1750  
 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           | 7359      | 7392      |                |                     |            |
| 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              | 414           | 340          | 414        | 0          | VISU   |
| 1ST         | 7+7/8        | 4+1/2          | 11.6            | 7,419         | 300          | 7,419      | 6,270      | CALC   |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7309 with 2 sacks cmt on top. CIBP #2: Depth 6567 with 2 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 215 sks cmt from 1875 ft. to 1500 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set 340 sks cmt from 650 ft. to 0 ft. Plug Type: OPEN HOLE 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 4550 ft. with 210 sacks. Leave at least 100 ft. in casing 4165 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 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:

Two E Ranch 1-23 (05-123-11335)/Plugging Procedure (Intent)  
 Producing Formation: J-Sand: 7359'-7392'  
 Upper Pierre Aquifer: 672'-1630'  
 TD: 7420' PBD: 7400'  
 Surface Casing: 8 5/8" 24# @ 414' w/ 340 sxs  
 Production Casing: 4 1/2" 11.6# @ 7419' w/ 300 sxs cmt (TOC @ 6270' – Well History).

Tubing: 2 3/8" tubing set @ 7372' (12/10/1990).  
 Proposed Procedure:  
 1. MIRU pulling unit. Pull 2 3/8" tubing (tubing length is estimated).  
 2. RU wireline company. Run CBL from 6900' to surface to determine TOC.  
 3. TIH with CIBP. Set BP at 7309'. Top with 2 sxs 15.8#/gal CI G cement.  
 4. TIH with CIBP. Set BP at 6567'. Top with 2 sxs 15.8#/gal CI G cement.  
 5. Shoot lower squeeze holes at 4550'. Shoot upper squeeze holes at 4150'.  
 6. Set CICR at 4165'. RU cementing company. Sting in and pump 210 sxs 15.8#/gal CI G cement. Sting out and pump 10 sxs on top of CICR.  
 7. TIH with casing cutter. Cut 4 1/2" casing at 1750'. Pull cut casing.  
 8. TIH with tubing to 1875'. Mix and pump 215 sxs 15.8#/gal CI G cement w/ 2% CaCl down tubing (cement coverage from 1500'-1875').  
 9. Pick up tubing to 650'. Mix and pump 340 sxs 15.8#/gal CI G cement down tubing. Cement should 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: 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: \_\_\_\_\_

**COA Type**

**Description**

|  |  |
|--|--|
|  |  |
|--|--|

**Attachment Check List**

**Att Doc Num**

**Name**

|           |                  |
|-----------|------------------|
| 401576007 | WELLBORE DIAGRAM |
| 401576008 | WELLBORE DIAGRAM |
| 401576010 | GYRO SURVEY      |

Total Attach: 3 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

|  |  |                     |
|--|--|---------------------|
|  |  | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)