

FORM  
6Rev  
12/05State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

400329690

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: Jeff Glossa

Name of Operator: PDC ENERGY INC

Phone: (303) 831-3972

Address: 1775 SHERMAN STREET - STE 3000

Fax: (303) 860-5838

City: DENVER State: CO Zip: 80203

Email: Jeffrey.Glossa@PDCE.com

For "Intent" 24 hour notice required, Name: HICKEY, MIKE Tel: (970) 302-1024

COGCC contact: Email: mike.hickey@state.co.us

API Number 05-123-09522-00

Well Name: ARMSTEAD

Well Number: 2

Location: QtrQtr: SWSW Section: 31 Township: 2N Range: 68W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: SPINDLE

Field Number: 77900

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

## Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.089462 Longitude: -105.053209

GPS Data:

Date of Measurement: 07/26/2010 PDOP Reading: 1.5 GPS Instrument Operator's Name: Shantell Kling

Reason for Abandonment: ☐ Dry ☒ Production for Sub-economic ☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes ☐ No Estimated Depth: 3280Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore has Uncemented Casing leaks: ☒ Yes ☐ No If yes, explain details below

Details: Well failed MIT and has been SI since 10/2007

## Current and Previously Abandoned Zones

Formation	Code	Perf. Top	Perf. Bottom	Date	Method of Isolation	Plug Depth
SHANNON	SNSD	4814	4836			

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	595	325	595	0	CALC
1ST	7+7/8	4+1/2	11.6	4,925	325	4,925	3,280	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4750 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 30 sks cmt from 3305 ft. to 3255 ft. Plug Type: STUB PLUG 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 300 sacks half in. half out surface casing from 800 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:

Plugging Procedure  
Shannon Formation

Well Name: Armstead 2 API No: 05-123-09522 GL Elevation: 4950'

Location: 690' FSL 600' FWL, Section 31, T2N, R68W Weld County, Colorado.

Existing Perforations: Shannon formation at 4814'-4836'

Plug back TD: 4925' for casing.

Casing Strings: 8 5/8" 24#/ft casing set at 595'. Cmt'd to surface w/ 325 sxs.  
4 1/2" 11.5# casing set at 4925'. Cmt'd w/ 325 sxs. Est TOC @ 3280'

Tubing String:

Procedure:

1. MIRU wireline company.
2. RIH w/ CIBP, set @ 4750.
3. RIH w/ Dump bailer. Spot 2 sxs of cement on top of CIBP.
4. RIH W/ CBL, locate TOC
5. TIH w/ casing cutter, cut and pull casing.
6. TIH and set 50' plug at casing stub (est 3280').
7. Set cement plug 800' to Surface.
8. Set 10 sx cement at top of surface.
9. Cut off casing at depth specified by land owner. Weld on plate. Clean and restore location.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Jeff Glossa  
Title: Sr Eng Tech Date: \_\_\_\_\_ Email: Jeffrey.Glossa@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: \_\_\_\_\_

**Attachment Check List**

Att Doc Num	Name
400329927	WELLBORE DIAGRAM
400329933	WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)