

Document Number:
400867938

Date Received:
07/14/2015

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 05-123-17765-00

Well Name: LAIR Well Number: 2

Location: QtrQtr: SWSW Section: 30 Township: 4N Range: 66W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 59948

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: 40.276944 Longitude: -104.827222

GPS Data:
Date of Measurement: 07/10/2010 PDOP Reading: 2.4 GPS Instrument Operator's Name: Shantell Kling

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

Casing to be pulled: Yes No Estimated Depth: 6230

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	7340	7350			

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	366	360	366	0	VISU
1ST	7+7/8	4+1/2	11.6	7,450	300	7,450	6,260	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7000 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 50 sks cmt from 6290 ft. to 6093 ft. Plug Type: STUB PLUG Plug Tagged:
 Set 550 sks cmt from 5000 ft. to 3500 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 _____ 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:

Lair 2 (05-123-17765)/Plugging Procedure (Intent)
 Producing formation: Codell
 Existing Perforations: Codell 7340'-7350'
 TD: 7460' PBD: 7424'
 Surface Casing: 8 5/8" 24# @ 366' w/ 360 sks cmt.
 Production Casing: 4 1/2" 11.6# @ 7450' w/ 300 sks cmt (TOC 6260').

Existing RBP's: at 6890' and 7287' both topped with sand.
 Proposed Procedure:
 1. MIRU pulling unit. Pick up on tubing. Circulate sand off of RBP at 6890' and release RBP. TOOH with RBP.
 2. TIH with tubing. Circulate sand off of RBP at 7287' and release RBP. TOOH with RBP.
 3. Rig up wireline company. TIH with CIBP. Set CIBP at 7000'. TIH with dump bailer. Spot 2 sxs of 15.8#/gal CI G cement on top of CIBP.
 4. TIH with casing cutter. Cut off 4 1/2" casing at 6230'. Pull 4 1/2" casing.
 5. PU tubing. TIH with tubing to 6280'. RU cementers. Mix and pump 50 sxs of 15.8#/gal CI G cement at 6280'.
 6. Reset tubing at 5000'. RU cementers. Mix and pump 550 sxs of 15.8#/gal CI G cement at 5000'.
 7. Reset tubing to 900'. RU cementers. Mix and pump 330 sxs of 15.8#/gal CI G cement. Cement should circulate to surface.
 8. 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: 7/14/2015 Email: Jenifer.Hakkarinen@pdce.com

Based on the information provided, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved:

Date: 7/21/2015

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 1/20/2016

COA Type

Description

	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 266' 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.
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Attachment Check List

Att Doc Num

Name

400867938	FORM 6 INTENT SUBMITTED
400868002	WELLBORE DIAGRAM
400868004	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Permit	form 4 passed. Permitting Review Complete.	7/20/2015 1:13:39 PM
Permit	On HOLD: w/o form 4 doc # 400710492 to be approved.	7/20/2015 9:45:40 AM
Permit	Well Completion Report dated 2/16/1994.	7/20/2015 9:45:28 AM

Total: 3 comment(s)