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04/13/2017

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: Kelsi Welch

Name of Operator: PDC ENERGY INC Phone: (303) 831-3974

Address: 1775 SHERMAN STREET - STE 3000 Fax: _____

City: DENVER State: CO Zip: 80203 Email: kelsi.welch@pdce.com

For "Intent" 24 hour notice required, Name: _____ Tel: _____

COGCC contact: Email: _____

API Number 05-123-14891-00

Well Name: BILLINGS Well Number: 44-21

Location: QtrQtr: SESE Section: 21 Township: 6N Range: 66W 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: 40.468611 Longitude: -104.775000

GPS Data:
Date of Measurement: 04/19/2010 PDOP Reading: 1.9 GPS Instrument Operator's Name: Chuck Kraft

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	6834	6965	03/14/2017	B PLUG CEMENT TOP	6790
CODELL	7122	7145	01/08/2002	B PLUG CEMENT TOP	6991

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	353	200	353	0	
1ST	7+7/8	3+1/2	9.3	7,249	230	7,249	6,296	

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6790 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 5 sks cmt from 1015 ft. to 870 ft. Plug Type: CASING Plug Tagged:
Set 269 sks cmt from 870 ft. to 0 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:
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 _____ 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: 850 ft. 3+1/2 inch casing Plugging Date: 03/14/2017
of
*Wireline Contractor: Ranger *Cementing Contractor: Ranger
Type of Cement and Additives Used: 15.8#/gal CI G cement
Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Billings 44-21 (05-123-14891)/Plugging Procedure (Subsequent)
Producing Formation: Niobrara 6834'-6965'
Plugged Back Formation: Codell 7122'-7145'
Existing CIBP Set At: 6991' with 2 sxs cmt
TD: 7253' PBD: 7206'
Surface Casing: 8 5/8" 24# @ 353' w/ 200 sxs.
Production Casing: 3 1/2" 9.3# @ 7249' w/ 230 sks cmt. (TOC at 6296' CBL.)

Tubing: 2 1/16" tubing set at 6828'. (4/1/2015)

Proposed Procedure:

- 1) MIRU RU pulling unit. Pull 2 1/16" tubing.
- 2) RU wireline company. Run Gyro survey from 6900' to surface.
- 3) TIH with CIBP. Set BP at 6790'. Top with 2 sxs 15.8#/gal CI G cement.
- 4) TIH with tubing to 1015'. RU cementing company. Mix and pump 5 sxs 15.8#/gal CI G cement down tubing to establish stub plug.
- 5) TIH with casing cutter. Cut 3 1/2" casing at 850'. Pull cut casing.
- 6) TIH with tubing to 900'. RU cementing company. Mix and pump 269 sxs 15.8#/gal CI G cement down tubing to surface.
- 7) 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: Kelsi Welch
Title: Production Tech Date: 4/13/2017 Email: kelsi.welch@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: Jacobson, Eric

Date: 10/15/2018

CONDITIONS OF APPROVAL, IF ANY:

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

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401258957	FORM 6 SUBSEQUENT SUBMITTED
401258966	CEMENT JOB SUMMARY
401258967	WIRELINE JOB SUMMARY
401258986	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Requested gyro from operator. Operator emailed the gyro survey.	05/17/2018

Total: 1 comment(s)