

Document Number:
401535362

Date Received:
02/05/2018

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: Montoya, John Tel: (970) 397-4124

COGCC contact: Email: john.montoya@state.co.us

API Number 05-123-12582-00 Well Number: 1-22

Well Name: VIRGINIA

Location: QtrQtr: SESW Section: 22 Township: 5N Range: 65W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 68192

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: 40.378889 Longitude: -104.651944

GPS Data:
Date of Measurement: 05/03/2010 PDOP Reading: 2.4 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
CODELL	7004	7010	08/31/2017	B PLUG CEMENT TOP	6647
NIOBRARA	6697	6909	08/31/2017	B PLUG CEMENT TOP	6647

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	348	260	348	0	VISU
1ST	7+7/8	4+1/2	11.6	7,109	200	7,109	6,348	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ sacks cmt on top. CIPB #2: Depth _____ with _____ sacks cmt on top.
CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 572 sks cmt from 1162 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:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 4650 ft. with 280 sacks. Leave at least 100 ft. in casing 4100 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: 550 ft. 4+1/2 inch casing Plugging Date: 01/08/2018
of _____

*Wireline Contractor: Casedhole Solutions

*Cementing Contractor: C&J

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:

Virginia 1-22 (05-123-12582)/Plugging Procedure (Subsequent)
Producing Formation: Codell 7004'-7010' Niobrara 6697'-6909'
TD: 7125' PBDT: 7094'
Surface Casing: 8 5/8" 24# @ 348' w/ 260 sxs.
Production Casing: 4 1/2" 11.6# @ 7109' w/ 200 sks cmt. (TOC at 6348' - CBL)

Tubing: 2 3/8" tubing set at 6973'. (6/9/2003)

Existing CIBP @ 6648' topped with 2 sxs cement (8/31/17)

Proposed Procedure:

1. MIRU RU pulling unit. Pull tubing.
2. RU wireline company. Logged from 5000'- surface.
3. TIH with perforating gun. Perforate 6 holes at 4650' and 6 holes at 4085'.
4. TIH with cement retainer. Set retainer at 4100'.
5. TIH with tubing. Sting into retainer at 4100'. Establish rate. Mix and pump 280 sxs 15.8#/gal CI G cement down tubing. Displace cement to top of retainer. TOOH with tubing.
6. TIH with casing cutter. Cut 4 1/2" casing at 550'. Pull cut casing.
7. TIH with casing cutter. Attempted to cut 4 1/2" casing at 1100' and fish casing. Attempt failed. Received COGCC approval to cement from 1128' – surface.
8. TIH with tubing to 1162'. Mix and pump 572 sxs 15.8#/gal CI G cement down tubing to surface.
9. 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

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:**COA Type****Description**

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Attachment Check List**Att Doc Num****Name**

401535362	FORM 6 SUBSEQUENT SUBMITTED
401535497	CEMENT JOB SUMMARY
401535498	CEMENT BOND LOG
401535502	WIRELINE JOB SUMMARY
401535505	WELLBORE DIAGRAM

Total Attach: 5 Files

General Comments**User Group****Comment****Comment Date**

Agency	Form 5A# 401445491 approved.	08/20/2018
	Form 5A# 401445491 in progress.	07/11/2018
	Asked the operator to submit the Bradenhead test form performed prior plugging.	

Total: 2 comment(s)