

Document Number:
 402189352
 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: Valerie Danson
 Name of Operator: PDC ENERGY INC Phone: (970) 506-9272
 Address: 1775 SHERMAN STREET - STE 3000 Fax: _____
 City: DENVER State: CO Zip: 80203 Email: valerie.danson@pdce.com

For "Intent" 24 hour notice required, Name: Peterson, Tom Tel: (970) 370-1281
COGCC contact: Email: tom.peterson@state.co.us

API Number 05-123-12164-00 Well Number: 1
 Well Name: BRUCE
 Location: QtrQtr: NENW Section: 31 Township: 4N Range: 66W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: 68900
 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: 40.274167 Longitude: -104.822500
 GPS Data:
 Date of Measurement: 02/10/2010 PDOP Reading: 2.1 GPS Instrument Operator's Name: Brandon Lucason
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 2500
 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-CODELL	6984	7282			

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	267	330	267	0	VISU
1ST	7+7/8	4+1/2	11.6	7,387	250	7,387	6,415	CBL
S.C. 1.1				5,050	125	5,050	4,778	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6934 with 2 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 25 sks cmt from 5165 ft. to 4935 ft. Plug Type: CASING Plug Tagged:
Set 10 sks cmt from 4669 ft. to 4538 ft. Plug Type: CASING Plug Tagged:
Set 40 sks cmt from 2550 ft. to 2375 ft. Plug Type: STUB PLUG Plug Tagged:
Set 59 sks cmt from 1460 ft. to 1260 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 180 sks cmt from 600 ft. to 0 ft. Plug Type: OPEN HOLE Plug Tagged:

Perforate and squeeze at 4770 ft. with 30 sacks. Leave at least 100 ft. in casing 4670 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. _____ inch casing Cut and Cap Date: _____
of _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Bruce 1 (05-123-12164)/Plugging Procedure (Intent)

Producing Formation: Niobrara/Codell: 6984'-7282'

Upper Pierre Aquifer: 440'-1360'

TD: 7390' PBTD: 7343' (8/12/2014)

Surface Casing: 8 5/8" 24# @ 267' w/ 330 sxs

Production Casing: 4 1/2" 11.6# @ 7387' w/ 250 sxs cmt (TOC @ 6415' - CBL).

Remedial Squeeze @ 5050' w/ 125 sxs cmt (TOC @ 4778' - CBL)

Casing Patch @ 2409'

Tubing: 2 3/8" tubing set @ 7261' (10/10/2014).

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6934'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara perms @ 6984')
4. TIH with tubing to 2550'. RU cementing company. Mix and pump 25 sxs 15.8#/gal CI G cement down tubing (Remedial Squeeze coverage 5050'-4935').
5. TIH with perf gun. Shoot lower squeeze holes at 4770' and upper squeeze holes at 4655'.
6. TIH with CICR. Set CICR at 4670'. RU cementing company. Sting in and pump 40 sxs 15.8#/gal CI G cement. Sting out and pump 10 sxs cement on top of CICR.
7. TIH with casing cutter. Cut 4 1/2" casing at 2500' (below casing patch @ 2409'). Pull cut casing and casing patch.
8. TIH with tubing to 1460'. RU cementing company. Mix and pump 40 sxs 15.8#/gal CI G cement down tubing.
9. Pick up tubing to 1460'. Mix and pump 59 sxs 15.8#/gal CI G cement down tubing (Pierre coverage from 1460'-1260').
10. Pick up tubing to 600'. Mix and pump 180 sxs 15.8#/gal CI G cement down tubing (Pierre coverage from 600'-surface). Cement should circulate to surface.
11. 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: Valerie Danson
 Title: Reg Tech Date: _____ Email: valerie.danson@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
402189382	WELLBORE DIAGRAM
402189383	WELLBORE DIAGRAM
402189384	GYRO SURVEY

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)