

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: Montoya, John Tel: (970) 397-4124
COGCC contact: Email: john.montoya@state.co.us

API Number 05-123-25365-00 Well Number: 21-28
 Well Name: GUTTERSEN
 Location: QtrQtr: NENW Section: 28 Township: 3N Range: 63W 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: 40.202000 Longitude: -104.444970
 GPS Data:
 Date of Measurement: 06/27/2008 PDOP Reading: 1.8 GPS Instrument Operator's Name: HOLLY TRACY
 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	6770	6776			
NIOBRARA	6548	6554			
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	810	570	810	0	VISU
1ST	7+7/8	4+1/2	10.5	6,932	700	6,932	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6498 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 85 sks cmt from 1010 ft. to 0 ft. Plug Type: CASING 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 _____ 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 Plugging Date: _____
of _____
*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:

Guttersen 21-28 (05-123-25365)/Plugging Procedure (Intent)
Producing Formation (Perforations): Niobrara: 6548'-6554' Codell: 6770'-6776'
TD: 6958' PBD: 6892'
Surface Casing: 8 5/8" 24# @ 810' w/ 570 sxs
Production Casing: 4 1/2" 10.5# @ 6932' w/ 700 sxs cmt (TOC @ Surface - CBL).

Tubing: 2 3/8" tubing set @ 6763' (7/2/2008).

Proposed Procedure:

1. RU Wireline. Remove stage tool set at 4014' (12/30/2008).
2. Run Gyro Survey.
3. MIRU pulling unit. Pull 2 3/8" tubing.
4. RU wireline company.
5. TIH with CIBP. Set BP at 6498'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with tubing to 1010'. RU cementing company. Mix and pump 85 sxs 15.8#/gal CI G cement down tubing.
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: Jenifer Hakkarinen
Title: Reg Tech Date: 6/7/2017 Email: Jenifer.Hakkarinen@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: McCoy, Diane Date: 6/19/2017

COA Type	Description
	1) Prior to starting plugging operations a bradenhead test shall be performed. If the beginning pressure is greater than 25 psi, or if pressure remains at the conclusion of the test, or if any liquids were present contact COGCC Engineer for sampling requirements. The Form 17 shall be submitted within 10 days of the test. 2) Provide 48 hour notice of plugging MIRU via electronic Form 42. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 4) Submit gyro survey data with Form 6 Subsequent Report of Abandonment. 5) If plug on at 1010' is not circulated to surface then tag plug – must be 760' or shallower and provide a 15 sack plug at the surface. Leave at least 100' of cement in the wellbore for each plug.

Attachment Check List

Att Doc Num	Name
401302858	FORM 6 INTENT SUBMITTED
401302860	WELLBORE DIAGRAM
401302861	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	Updated the reason for abandonment from mechanical problems to production sub economic per email from Operator.	06/19/2017
Public Room	Document verification complete 06/08/17	06/08/2017

Total: 2 comment(s)