

FORM
6
Rev
05/18

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
Document Number: 401699110			
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: <u>69175</u>	Contact Name: <u>JEnifer Hakkarinen</u>
Name of Operator: <u>PDC ENERGY INC</u>	Phone: <u>(303) 8605800</u>
Address: <u>1775 SHERMAN STREET - STE 3000</u>	Fax: _____
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>	Email: <u>Jenifer.Hakkarinen@pdce.com</u>

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

API Number <u>05-123-20348-00</u>	Well Name: <u>HAHN</u>	Well Number: <u>14-27</u>
Location: QtrQtr: <u>SWSW</u> Section: <u>27</u> Township: <u>5N</u> Range: <u>67W</u> Meridian: <u>6</u>	County: <u>WELD</u> Federal, Indian or State Lease Number: _____	
Field Name: <u>WATTENBERG</u>	Field Number: <u>90750</u>	

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.365170 Longitude: -104.886060

GPS Data:
 Date of Measurement: 03/15/2007 PDOP Reading: 2.0 GPS Instrument Operator's Name: Holly L. 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	7046	7056	05/25/2018	B PLUG CEMENT TOP	6986
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	375	275	375	0	VISU
1ST	7+7/8	4+1/2	10.5	7,185	155	7,185	6,010	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6986 with 2 sacks cmt on top. CIBP #2: Depth 6330 with 2 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 150 sks cmt from 1420 ft. to 1000 ft. Plug Type: STUB PLUG Plug Tagged:
Set 321 sks cmt from 600 ft. to 0 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 5110 ft. with 105 sacks. Leave at least 100 ft. in casing 4745 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: 1300 ft. 4+1/2 inch casing Plugging Date: 05/25/2018
of _____

*Wireline Contractor: Ranger

*Cementing Contractor: C&J

Type of Cement and Additives Used: 15.8 PPG CL G NEAT + 2 % CaCl

Flowline/Pipeline has been abandoned per Rule 1105 Yes No

*ATTACH JOB SUMMARY

Technical Detail/Comments:

Hahn 14-27 (05-123-20348)/Plugging Procedure
Producing Formation: Codell: 7046'-7056'
Upper Pierre Aquifer: 2385'-2442'
TD: 7200' PBTD: 7155'
Surface Casing: 8 5/8" 24# @ 370' w/ 280 sxs
Production Casing: 4 1/2" 10.5# @ 7186' w/ 140 sxs cmt (TOC @ 6018' - CBL).

Tubing: 2 3/8" tubing set @ 7042' (11/9/2001).

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6986'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 6630'. Top with 2 sxs 15.8#/gal CI G cement.
5. Shoot lower squeeze holes at 5110'. Shoot upper squeeze holes at 4730'.
6. Set CICR at 4745'. Sting in and pump 105 sxs 15.8#/gal CI G cement. Sting out and pump 10 sxs on top of CICR.
7. TIH with casing cutter. Cut 4 1/2" casing at 1300'. Pull cut casing.
8. TIH with tubing to 1420'. RU cementing company. Mix and pump 150 sxs 15.8#/gal CI G cement with 2% CaCl down tubing to 1000'.
9. Pick up tubing to 600'. Mix and pump 321 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
10. 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: _____

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: _____

Date: _____

CONDITIONS OF APPROVAL, IF ANY: _____

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

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401699115	WELLBORE DIAGRAM
401699121	CEMENT JOB SUMMARY

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)