

FORM
6Rev
12/05State 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:

400984064

Date Received:

02/04/2016

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) 860-5800

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: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-123-20401-00

Well Name: STATE 8461

Well Number: 32-16

Location: QtrQtr: SWNE Section: 16 Township: 6N Range: 64W 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: 40.487940

Longitude: -104.552190

GPS Data:

Date of Measurement: 12/07/2008

PDOP Reading: 2.0

GPS Instrument Operator's Name: Holly L. Tracy

Reason for Abandonment: ☐ Dry ☐ Production Sub-economic ☐ Mechanical Problems☒ Other Failed MITCasing to be pulled: ☐ Yes ☐ No

Estimated Depth:

Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore 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	7010	7018	10/15/2015	B PLUG CEMENT TOP	6960

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	896	630	896	0	
1ST	7	4+1/2	10.5	7,224	420	7,224	4,320	

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6600 with 2 sacks cmt on top. CIBP #2: Depth 2100 with 2 sacks cmt on top.
CIBP #3: Depth 1200 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 50 sks cmt from 3785 ft. to 3638 ft. Plug Type: CASING Plug Tagged: ☐
Set 50 sks cmt from 1780 ft. to 1633 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: ☐

Perforate and squeeze at 1100 ft. with 450 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. of _____ inch casing Plugging Date: _____

*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:

State 8461 #32-16 (05-123-20401)/Plugging Procedure (Intent)
Plugged Back Formation: Codell 7010'-7018'
Existing CIBP: Set at 6960' w/ 2sxs cmt.
TD: 7231' PBD: 6934'
Surface Casing: 8" 24# @ 896'
Production Casing: 4½" 10.5# @ 7224' w/ 420 sks cmt (TOC 4320' CBL).

Tubing: 2" 4.7# EUE set at 6807'. (10/16/2015)

Proposed Procedure:

1. MIRU RU pulling unit. Pull tubing.
2. RU wireline company. Run gyro survey.
3. TIH with CIBP. Set bridge plug at 6700'. TIH with dump bailer. Spot 2 sxs cement on top of CIBP.
4. TIH with tubing to 3785'. Mix and pump a 50 sx balanced plug of 15.8#/gal CI G cement.
5. TIH with CIBP. Set bridge plug at 2100'. Because this plug is being set only to eliminate WOC time, do not spot 2 sxs cement on top of CIBP.
6. TIH with tubing to 1780'. Mix and pump a 50 sx balanced plug of 15.8#/gal CI G cement.
7. TIH with CIBP. Set bridge plug at 1200'. Because this plug is being set only to eliminate WOC time, do not spot 2 sxs cement on top of CIBP.
8. TIH with perforating gun. Perforate 4 squeeze holes at 1100'.
9. Mix and pump 450 sxs of 15.8#/gal CI G cement down 4 ½" casing. Cement should 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

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: HICKEY, MIKE

Date: 11/18/2016

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 5/17/2017

COA Type

Description

	1)Prior to initiation of plugging operations, a bradenhead test shall be performed. If any pressure remains at the conclusion of the test or any liquids were present call COGCC Engineer for sampling requirements. Form 17 shall be submitted within 10 days of the test. 2)Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 3)Properly abandon flowlines. Once flowlines are properly abandoned, file electronic form 42. 4)For 1100' plug: pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – top of plug must be not deeper than 846' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug.
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Attachment Check List

Att Doc Num

Name

400984064	FORM 6 INTENT SUBMITTED
400984135	WELLBORE DIAGRAM
400984137	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Engineer	Changed CIBP depth from 6700 to 6600 to get it above the Nio top. Added 2 sks to #2.	11/18/2016
Engineer	nio plug too deep other plugs?	03/18/2016
Public Room	Document verification complete 02/10/16	02/10/2016

Total: 3 comment(s)