

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: 401166336			
Date Received: 12/13/2016			

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: 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: Peterson, Tom Tel: (303) 815-9641	
COGCC contact: Email: tom.peterson@state.co.us	

API Number 05-123-12053-00	Well Number: 19-2
Well Name: NYGREN	
Location: QtrQtr: SWSW Section: 19 Township: 4N Range: 67W Meridian: 6	
County: WELD	Federal, Indian or State Lease Number: 65508
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: 40.293640	Longitude: -104.939390
GPS Data:	
Date of Measurement: 11/16/2007	PDOP Reading: 2.8 GPS Instrument Operator's Name: Holly L. Tracy
Reason for Abandonment: <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Production Sub-economic <input type="checkbox"/> Mechanical Problems	
<input type="checkbox"/> Other	
Casing to be pulled: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Estimated Depth:
Fish in Hole: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, explain details below
Wellbore has Uncemented Casing leaks: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	7352	7366			
NIOBRARA	7056	7147			

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	280	348	0	VISU
1ST	7+7/8	4+1/2	11.6	7,448	300	7,448	6,485	CBL
S.C. 1.1				2,379	100	2,379	2,202	CBL
S.C. 1.2				3,051	100	3,042	2,912	CBL
S.C. 1.3				537	190	537	20	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7302 with 2 sacks cmt on top. CIPB #2: Depth 7006 with 2 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 40 sks cmt from 2800 ft. to 3300 ft. Plug Type: CASING Plug Tagged: ☐

Set 40 sks cmt from 2100 ft. to 2600 ft. Plug Type: CASING Plug Tagged: ☐

Set 45 sks cmt from 540 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: ☐

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. 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:

Nygren 19-2 (05-123-12053)/Plugging Procedure (Intent)
Producing Formation: Codell 7352'-7366' Niobrara 7056'-7147'
TD: 7450' PBTD: 7396'
Surface Casing: 8 5/8" 24# @ 348' w/ 280 sxs
Production Casing: 4 1/2" 11.6# @ 7448' w/300 sxs cmt (TOC 6485' – CBL)
Holes in casing from 3020'-3051' were squeezed with 100 sxs
Holes in casing from 2314'-2379' were squeezed with 100 sxs
Performed annular fill from 20'-500' with 190 sxs

Tubing: 2 3/8" tubing set at 7335'. (12/1/2010) NOTE: Arrowset 3 packer at 4575'.

Proposed Procedure:

1. MIRU RU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set CIBP at 7302'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set CIBP at 7006'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with tubing to 3300'. Mix and pump 40 sxs of 15.8#/gal CI G cement down tubing.
6. Reset tubing to 2600'. Mix and pump 40 sxs of 15.8#/gal CI G cement down tubing.
7. Run cement bond log from 1000' to surface to verify annular cement coverage. If annulus shows no cement coverage from 500' to surface notify Denver office.
8. TIH with tubing to 540'. Mix and pump 45 sxs of 15.8#/gal CI G cement down tubing. Cement should circulate 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
Title: Production Tech Date: 12/13/2016 Email: kelsi.welch@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: JENKINS, STEVE Date: 12/29/2016

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 6/28/2017

COA Type

Description

	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For the 540' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be at 298' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the casing for each plug. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 4) 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 Engineering for sampling requirements. The Form 17 shall be submitted within 10 days of the test.
--	---

Attachment Check List

Att Doc Num

Name

401166336	FORM 6 INTENT SUBMITTED
401166353	WELLBORE DIAGRAM
401166354	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Public Room	Document verification complete 12/14/16	12/14/2016
-------------	---	------------

Total: 1 comment(s)