

Document Number:
401209325

Date Received:
02/13/2017

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: Gomez, Jason Tel: (970) 573-1277

COGCC contact: Email: jason.gomez@state.co.us

API Number 05-123-13803-00

Well Name: EHRlich Well Number: 1

Location: QtrQtr: NWNW Section: 5 Township: 5N Range: 64W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 56595

Field Name: KERSEY Field Number: 44600

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.433440 Longitude: -104.580940

GPS Data:
Date of Measurement: 10/01/2007 PDOP Reading: 2.4 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	6898	6908	12/02/2016	B PLUG CEMENT TOP	6558
NIOBRARA	6608	6738	12/02/2016	B PLUG CEMENT TOP	6558

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	13+1/2	8+5/8	24	230	175	230	0	VISU
1ST	7+7/8	4+1/2	15.1	7,043	220	7,043	5,860	CBL
S.C. 1.1				3,827	270	3,827	3,196	CBL
S.C. 1.2				2,647	100	2,647	2,340	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ 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 40 sks cmt from 4100 ft. to 3600 ft. Plug Type: CASING Plug Tagged:
Set 40 sks cmt from 2850 ft. to 2350 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 500 ft. with 200 sacks. Leave at least 100 ft. in casing 100 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:

Ehrich 1 (05-123-13803)/Plugging Procedure (Intent)
Producing Formation: Codell 6898'-6908' Niobrara 6608'-6738'
TD: 7043' PBD: 6970'
Surface Casing: 8 5/8" 24# @ 230' w/ 175 sxs.
Production Casing: 4 1/2" 15.1# @ 7043' w/ 220 sks cmt. (TOC at 5860' CBL.)
Cement squeeze holes in csg. 100 sxs 2616'-2646' (No CBL)
Cement squeeze Parkman Formation. 270 sxs 3196'-3900' (CBL)

Tubing: 2 3/8" tubing set at 6482'. (2/12/2016)

Proposed Procedure:

1. MIRU RU pulling unit. Pull 2 3/8" tubing. Remove cone bit from tubing.
2. TIH with tubing to 4100'. Mix and pump 40 sxs 15.8#/gal CI G cement down tubing.
3. Reset tubing to 2850'. Mix and pump 40 sxs 15.8#/gal CI G cement down tubing.
4. RU wireline. Perforate 4 1/2" casing with four shots per foot at 500' and at 80'.
5. RIH with cement retainer on wireline. Set retainer at 100'. TIH with 2 3/8" tubing. Sting into retainer. Establish circulation through perforations for suicide squeeze.
6. Mix and pump 200 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
7. Pull tubing. Top off cement. 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: 2/13/2017 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: JENKINS, STEVE

Date: 2/15/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 8/14/2017

COA Type

Description

	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For the 500' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be at 180' 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.
	Missing 5A for the abandonment of the Nio and Codell on 12/2/2016. Please submit before subsequent form 6 is approved.

Attachment Check List

Att Doc Num

Name

401209325	FORM 6 INTENT SUBMITTED
401209327	WELLBORE DIAGRAM
401209328	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Public Room	Document verification complete 02/14/17	02/14/2017
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Total: 1 comment(s)