

Document Number:
401138249

Date Received:
11/29/2016

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) 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 05-123-25017-00 Well Number: 44-23

Well Name: RUSCO

Location: QtrQtr: SESE Section: 23 Township: 7N Range: 66W Meridian: 6

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

Field Name: EATON Field Number: 19350

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.555780 Longitude: -104.737470

GPS Data:
Date of Measurement: 09/22/2007 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	7392	7402			
NIOBRARA	7096	7224			

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	621	480	621	0	VISU
1ST	7+7/8	4+1/2	11.6	7,547	720	7,547	6,610	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7342 with 2 sacks cmt on top. CIBP #2: Depth 7160 with 2 sacks cmt on top.
CIBP #3: Depth 7046 with 4 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 60 sks cmt from 4585 ft. to 3795 ft. Plug Type: CASING Plug Tagged:
Set 76 sks cmt from 1000 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:

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:

Action Details

Proposed Plugging Procedure
Rusco 44-23 (05123250170000)

Existing Perforations:

Nio-A: 7,096' – 7,109'

Nio-B: 7,210' – 7,224'

Codell: 7,392' – 7,402'

Current PBSD: 7,523'

Surface Csg: 8-5/8" 24# @ 621' w/ 480 sxs cmt (TOC @ surface)

Production Csg: 4-1/2" 11.6# @ 7,547' w/ 720 sxs cmt (TOC @ 6,610' & 5,690 & 2,400 & 430')

Parkman Top @ 3,895'

Sussex Top @ 4,385'

Niobrara Top @ 7,089'

Procedure:

1. MIRU WO rig.
2. Load and kill well.
3. POOH w/ 241 jts of 2-3/8" tbg.
4. Load well.
5. PU CIBP.
6. RIH w/ CIBP and set @ 7,342'.
7. MIRU WL unit.
8. PU bailer and 2 sxs cmt.
9. RIH and spot cmt on CIBP from 7,318' – 7,324'.
10. POOH w/ bailer.
11. PU CIBP.
12. RIH w/ CIBP and set @ 7,160'.
13. PU bailer and 2 sxs cmt.
14. RIH and spot cmt on CIBP from 7,160' – 7,136'.
15. POOH w/ bailer.
16. PU CIBP.
17. RIH w/ CIBP and set @ 7,046'.
18. RIH w/ work string and spot 4 sxs of cmt on top of CIBP from 7,046' – 6,996'.
19. TOOH w/ work string and spot a 60 sx balance plug from 4,585' – 3,795' to cover Sussex/Parkman.
20. TOOH w/ work string and spot a 76 sx balance plug from 1,000' – surface.
21. PU small ID tbg and perform annular fill from 1,000' – surface.
22. WOC.
23. RIH and tag.
24. Spot remaining volume needed.
25. Cut and weld cap.
26. RDMO service units.

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: 11/29/2016 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: HICKEY, MIKE Date: 11/30/2016

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 5/29/2017

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Properly abandon flowlines. Once flowlines are properly abandoned, file electronic form 42. 3) For 1000' 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 571' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401138249	FORM 6 INTENT SUBMITTED
401157046	WELLBORE DIAGRAM
401157047	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Public Room	Document verification complete 11/29/16	11/29/2016

Total: 1 comment(s)