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402054450

Date Received:
05/23/2019

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: Valerie Danson

Name of Operator: PDC ENERGY INC Phone: (970) 506-9272

Address: 1775 SHERMAN STREET - STE 3000 Fax: _____

City: DENVER State: CO Zip: 80203 Email: valerie.danson@pdce.com

For "Intent" 24 hour notice required, Name: Evins, Bret Tel: (970) 420-6699

COGCC contact: Email: bret.evins@state.co.us

API Number 05-123-18996-00 Well Number: 23-6

Well Name: SKURICH ROTH

Location: QtrQtr: NESW Section: 6 Township: 5N Range: 63W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 67325

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: 40.426810 Longitude: -104.481750

GPS Data:
Date of Measurement: 01/30/2007 PDOP Reading: 3.3 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: 1600

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
NIOBRARA-CODELL	6546	6737			

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	321	220	321	0	VISU
1ST	7+7/8	4+1/2	11.6	6,904	220	6,904	5,988	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6496 with 2 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 255 sks cmt from 1715 ft. to 1300 ft. Plug Type: STUB PLUG 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:
 Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 4000 ft. with 40 sacks. Leave at least 100 ft. in casing 3950 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 335 sacks half in. half out surface casing from 624 ft. to 0 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. _____ inch casing Plugging Date: _____
 of _____
 *Wireline Contractor: _____ *Cementing Contractor: _____
 Type of Cement and Additives Used: _____
 Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Skurich Roth 23-6 (05-123-18996)/Plugging Procedure (Intent)
 Producing Formation: Niobrara/Codell: 6546'-6737'
 Upper Pierre Aquifer: 354'-1454'
 TD: 6904' PBD: 6796'
 Surface Casing: 8 5/8" 24# @ 321' w/ 220 sxs
 Production Casing: 4 1/2" 11.6# @ 6904' w/ 220 sxs cmt (TOC @ 5988' - CBL).
 Tubing: Unknown tubing depth
 Proposed Procedure:
 1. MIRU pulling unit. Pull tubing.
 2. RU wireline company.
 3. TIH with CIBP. Set BP at 6496'. Top with 2 sxs 15.8#/gal CI G cmt.
 4. TIH with casing cutter. Cut 4 1/2" casing at 1600'. Pull cut casing.
 5. TIH with tubing to 1715'. Mix and pump 255 sxs 15.8#/gal CI G cement with 2% CaCl down tubing (Pierre coverage from 1715'-1300').
 6. Pickup tubing to 521'. Mix and pump 335 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface. TOOH with tubing.
 7. 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: Valerie Danson
 Title: Reg Tech Date: 5/23/2019 Email: valerie.danson@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: 6/19/2019

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 12/18/2019

COA Type	Description
	<p>Venting Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.</p>
	<p>Bradenhead Testing Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations. 1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p> <p>If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.</p>
	<p>Plugging 1) Provide 48 hour notice of plugging MIRU via electronic Form 42 2) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44. 3) Plugs and squeezes will be placed as stated in the Plugging Procedure section of the approved NOIA unless revised by COA or prior approval from COGCC is obtained. Confirm COAs have been met on the Form 6 SRA 4) The wellbore must be static prior to placing cement plugs which are to be a minimum of 100' in length for all but surface plugs. Mechanical isolation requires a 25' cement plug, minimum. 5) Place a 50' plug (minimum) at the surface, both inside the inner most casing and in all annular spaces. Confirm cement to surface in all strings during cut and cap. 6) Add intermediate isolation at 4000', 40 sx squeeze with CICR at 3950'. 7) Increase surface cement plug to 625-0', adjust cement volume accordingly. 8) Submit open hole logs as indicated on initial well completion report with Form 6 SRA if available.</p>
	Submit correct Ft Hayes top with Form 6 SRA.

Attachment Check List

Att Doc Num	Name
402054450	FORM 6 INTENT SUBMITTED
402054456	WELLBORE DIAGRAM
402054458	WELLBORE DIAGRAM
402054460	GYRO SURVEY

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	SB5 NA L-FH + 50 = Missing WW + Elev + 50 = 600 + 4634 - 4660 + 50 = 624' Logs 123-12790 Skurich-Rothe 12-6 11/9/1985 L-FH behind pipe, Base UPA 1400'	06/19/2019
Permit	Ready to pass form. Confirmed as drilled lat/long is accurate. Final Form 5/Drilling Completion Report on file as doc# 163121. Niobrara-Codell formation completion confirmed via Form 5A/Completed Interval Report(s): doc# 1985037. Confirmed Form 7 production reporting is accurate.	05/31/2019
Well File Verification	Pass	05/24/2019

Total: 3 comment(s)