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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: Silver, Randy Tel: (720) 827-6688
COGCC contact: Email: randy.silver@state.co.us

API Number 05-013-06361-00 Well Number: 8-01
 Well Name: MEMCO MC
 Location: QtrQtr: NENE Section: 8 Township: 1N Range: 69W Meridian: 6
 County: BOULDER 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: 40.071093 Longitude: -105.133049
 GPS Data:
 Date of Measurement: 07/29/2010 PDOP Reading: 2.6 GPS Instrument Operator's Name: Shantell Kling
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 1700
 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	7392	7788			
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	690	395	690	0	VISU
1ST	7+7/8	3+1/2	7.7	7,925	210	7,925	6,790	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7342 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 250 sks cmt from 1815 ft. to 1400 ft. Plug Type: STUB PLUG Plug Tagged:
 Set 450 sks cmt from 890 ft. to 0 ft. Plug Type: OPEN HOLE 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. _____ 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:

Memco Mc 8-01 (05-013-06361)/Plugging Procedure (Intent)
 Producing Formation: Niobrara/Codell: 7392'-7788'
 Upper Pierre Aquifer: 573'-1580'
 TD: 7935' PBTD: 7906'
 Surface Casing: 8 5/8" 24# @ 690' w/ 395 sxs
 Production Casing: 3 1/2" 7.7# @ 7925' w/ 210 sxs cmt (TOC @ 6790' - CBL).
 Tubing: 1 1/2" tubing set @ 7395' (3/14/1994).
 Proposed Procedure:
 1. Run gyro survey.
 2. MIRU pulling unit. Pull 2 3/8" tubing.
 3. RU wireline company.
 4. TIH with CIBP. Set BP at 7342'. Top with 2 sxs 15.8#/gal CI G cement.
 5. TIH with casing cutter. Cut 3 1/2" casing at 1700'. Pull cut casing.
 6. TIH with tubing to 1815'. Mix and pump 250 sxs 15.8#/gal CI G cement w/ 2% CaCl down tubing (Pierre coverage from 1815'-1400').
 7. Pick up tubing to 890'. Mix and pump 450 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface. TOOH with tubing.
 8. 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: 5/24/2019 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, Stephen _____

COGCC Approved: _____

Date: 8/26/2019

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 2/25/2020

COA Type

Description

	<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>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>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. 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) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed. 7) No current Form 17 on file with COGCC. Contact COGCC area engineer and inspector with results of pre-plugging bradenhead test for confirmation of plugging procedure prior to commencing plugging operations. 8) Contact area inspector prior to commencing plugging operations. 9) After placing the shallowest hydrocarbon isolating plug (1815-1400'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations. 10) Submit gyro survey with Form 6 SRA if available.</p>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402055113	FORM 6 INTENT SUBMITTED
402055114	WELLBORE DIAGRAM
402055115	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	SB5 No Results L-FH + 50 = 480 + 50 = 530' WW + Elev + 50 = 468 + 5213 - 5175 + 50 = 556' Logs 6/27/93 UPA base 1650'	08/26/2019
Permit	Ready to pass form. Confirmed as drilled lat/long is accurate. Niobrara-Codell formation completion confirmed via Form 5A/Completed Interval Report(s): doc# 33454. Confirmed Form 7 production reporting is accurate.	05/31/2019
Well File Verification	Pass	05/24/2019

Total: 3 comment(s)