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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: 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: JEifer.Hakkarinen@pdce.com

For "Intent" 24 hour notice required, Name: Beardslee, Tom Tel: (970) 420-3935
COGCC contact: Email: tom.beardslee@state.co.us

API Number 05-001-09274-00 Well Number: 41-17
 Well Name: MCELWAIN
 Location: QtrQtr: NENE Section: 17 Township: 1S Range: 67W Meridian: 6
 County: ADAMS 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: 39.969444 Longitude: -104.905556
 GPS Data:
 Date of Measurement: 01/26/2010 PDOP Reading: 2.3 GPS Instrument Operator's Name: Robert Girillego
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 1800
 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	7953	7970	03/14/2017	B PLUG CEMENT TOP	7470
NIOBRARA	7519	7810	03/14/2017	B PLUG CEMENT TOP	7470

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	1,168	700	1,168	0	VISU
1ST	7+7/8	4+1/2	11.6	8,041	131	8,041	7,354	CBL
S.C. 1.1				5,300	131	5,300	4,800	CBL

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 255 sks cmt from 1915 ft. to 1500 ft. Plug Type: STUB PLUG Plug Tagged:
 Set 600 sks cmt from 1368 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:

McElwain 41-17 (05-001-09274)/Plugging Procedure (Intent)
 Producing Formation: Codell: 7953'-7970' Niobrara: 7519'-7810'
 Upper Pierre Aquifer: 899'-1630'
 TD: 8085' PBTD: 8038'
 Surface Casing: 8 5/8" 24# @ 1168' w/ 700 sxs cmt
 Production Casing: 4 1/2" 11.6# 1st stage cmt @ 8041' (TOC @ 7354' - CBL).
 2nd stage cement @ 5300' (TOC @ 4800' - CBL) with a total of 262 sxs cmt between both stages. Unknown # of sxs each stage has specifically.
 Existing CIBP @ 7470' w/ 2 sxs cmt. (3/14/2017).
 Tubing: 2 3/8" tubing set @ 7248.7 (3/14/2017).
 Proposed Procedure:
 1. MIRU pulling unit. Pull 2 3/8" tubing.
 2. RU wireline company.
 3. TIH with casing cutter. Cut 4 1/2" casing at 1800'. Pull cut casing.
 4. TIH with tubing to 1915'. RU cementing company. Mix and pump 255 sxs 15.8#/gal CI G cement w/ 2% CaCl down tubing (Pierre coverage from 1915'-1500').
 5. Pickup tubing to 1368'. Mix and pump 600 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
 6. 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: _____ Email: Jenifer.Hakkarinen@pdce.com

