FORM 6 Rev 12/05

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109

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Document Number: 401097799

Date Received: 08/24/2016

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, COGCC contact: Name: Tel: Email:

API Number 05-123-12771-00

Well Name: MOORE Well Number: 31-24C

Location: QtrQtr: NWNE Section: 24 Township: 2N Range: 68W Meridian: 6

County: WELD Federal, Indian or State Lease Number:

Field Name: SPINDLE Field Number: 77900

☐ Notice of Intent to Abandon ☒ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.129999 Longitude: -104.949127

GPS Data:

Date of Measurement: 07/19/2010 PDOP Reading: 3.4 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:

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
FORT HAYS	7496	7499	05/05/2016	B PLUG CEMENT TOP	7182
NIOBRARA	7232	7432	05/05/2016	B PLUG CEMENT TOP	7182
J SAND	7956	7978	05/05/2016	B PLUG CEMENT TOP	7906

Total: 3 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	631	475	631	0	VISU
1ST	7+8/8	4+1/2	11.6	8,090	1,285	8,090	3,410	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7906 with 2 sacks cmt on top. CIPB #2: Depth 7182 with 2 sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 25 sks cmt from 4497 ft. to 4226 ft. Plug Type: CASING Plug Tagged: [X]

Set 435 sks cmt from 913 ft. to 0 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: [ ]

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: 854 ft. of 4+1/2 inch casing Plugging Date: 05/05/2016

*Wireline Contractor: Magna *Cementing Contractor: Magna

Type of Cement and Additives Used: 15.8#/gal Cl G cement

Flowline/Pipeline has been abandoned per Rule 1103 [ ] Yes [ ] No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Moore 31-24C (05-123-12771)/Plugging Procedure
Producing Formation: J Sand 7956'-7978'
Non-Producing Formations: Niobrara 7232'-7432' Fort Hayes 7496'-7499' Codell 7516'-7533'
Squeezed Formations: Sussex 4410'-4480'
TD: 8104' PBTD: 8060'
Surface Casing: 8 5/8" 24# @ 631' w/ 475 sxs.
Production Casing: 4 1/2" 11.6# @ 8090' w/ 1285 sks cmt (TOC 3410' CBL).
Tubing: 2 3/8" 4.7#/ft tubing set at 7918'.

Procedure:
1. MIRU RU pulling unit. TOOH with 2 3/8" tubing and packer. RU Wireline Company.
2. TIH with CIBP. Set BP at 7906'. Top with 2 sxs 15.8#/gal Cl G cement.
3. TIH with CIBP. Set BP at 7182'. Top with 2 sxs 15.8#/gal Cl G cement.
4. TIH with tubing to 4497'. Mix and pump 25 sxs 15.8#/gal Cl G cement from 4497'-4200'.
4. TIH with casing cutter. Cut 4 1/2" casing at 854'. Recover 4 1/2" casing.
5. TIH with tubing to 913'. Mix and pump 435 sxs of 15.8#/gal Cl 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: 8/24/2016 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.

Marquardt, Christelle

COGCC Approved:

Date: 4/4/2018

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description

Attachment Check List

Att Doc Num	Name
401097799	FORM 6 SUBSEQUENT SUBMITTED
401097807	CEMENT JOB SUMMARY
401098840	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	ON HOLD: Wellbore diagram will not open, requesting good copy from operator. Cement report and Form 7 OK. Plotted Gryro.	05/23/2017

Total: 1 comment(s)