FORM 6 Rev 11/20

State of Colorado
Energy & Carbon Management Commission

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

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Document Number: 403547795

Date Received:

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: 1099 18TH STREET SUITE 1500 Fax:

City: DENVER State: CO Zip: 80202 Email: regulatory@pdce.com

For "Intent" 24 hour notice required, COGCC contact: Name: Revas, Robbie Tel: (720) 661-7242 Email: robbie.revas@state.co.us

Type of Well Abandonment Report: [X] Notice of Intent to Abandon [ ] Subsequent Report of Abandonment

API Number 05-123-21331-00

Well Name: MDM Well Number: 34-14

Location: QtrQtr: SWSE Section: 14 Township: 2N Range: 68W Meridian: 6

County: WELD Federal, Indian or State Lease Number:

Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.133009 Longitude: -104.968547

GPS Data: GPS Quality Value: 1.9 Type of GPS Quality Value: PDOP Date of Measurement: 05/30/2014

Reason for Abandonment: [ ] Dry [X] Production Sub-economic [ ] Mechanical Problems

[ ] Other

Casing to be pulled: [X] Yes [ ] No Estimated Depth: 2500

Fish in Hole: [ ] Yes [X] No If yes, explain details below

Wellbore has Uncemented Casing leaks: [ ] Yes [X] No If yes, explain details below

Details:

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	7906	7926			

Total: 1 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J55	24	0	614	475	614	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7990	522	7990	3817	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7856 with 2 sacks cmt on top. CIBP #2: Depth 7110 with 2 sacks cmt on top.

CIBP #3: Depth 4755 with 2 sacks cmt on top. CIBP #4: Depth 4160 with 2 sacks cmt on top.

CIBP #5: Depth _____ with _____ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 100 sks cmt from 2550 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged: ☐

Set 100 sks cmt from 1440 ft. to 1240 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 374 sacks half in. half out surface casing from 814 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. of _____ inch casing

Surface Plug Setting Date: _____ Cut and Cap Date: _____ Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

MDM 34-14 (05-123-21331) / Plugging Procedure (Intent)
Producing Formation: J-Sand: 7906'-7926'

Upper Pierre Aquifer: 420'-1340'

Deepest Water Well: 300'
TD: 8000' PBTD: 7915.05' (9/12/2016)
Surface Casing: 8 5/8" 24# @ 614' w/ 475 sxs cmt
Production Casing: 4 1/2" 11.6# @ 7990' w/ 522 sxs (TOC @ 3817' – CBL)

Tubing: 2 3/8" 4.7# tubing @ 7894.9' (9/13/2016)

Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7856'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of J-Sand perfs @ 7906')
4. TIH with CIBP. Set BP at 7110'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Niobrara @ 7160')
5. TIH with CIBP. Set BP at 4755'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Shannon @ 4805')
6. TIH with CIBP. Set BP at 4160'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Sussex @ 4210')
7. TIH with casing cutter. Cut 4 ½" casing @ 2500'. Pull cut casing.
8. TIH with tubing to 2550'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub Plug from 2550'-2300')
9. Wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact engineering before continuing operations.
10. TIH with tubing to 1440'. Mix and pump 100 sx 15.8#/gal CI G cement down tubing. (Pierre coverage from 1440'-1240')
11. Pick up tubing to 814'. Mix and pump 374 sx 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
12. Well casing cut and capped per COGCC guidelines at a depth as not to interfere with soil cultivation.

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 Analyst Date: _____ 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: _____

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: _____

COA Type	Description
0 COA	

Attachment List

Att Doc Num	Name
403547806	WELLBORE DIAGRAM
403547807	WELLBORE DIAGRAM
403547808	GYRO SURVEY

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)