FORM 5
Rev 09/14

State of Colorado
Oil and Gas Conservation Commission

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

Document Number: 401418822

Date Received: 12/05/2017

DRILLING COMPLETION REPORT

Per Rule 308A, this form and all required attachments shall be submitted after completing the drilling operations to drill, sidetrack, or deepen a wellbore and after changing the casing and cement configuration of a wellbore. If any attempt has been made to test, complete, or produce the well, the operator shall aslo submit a Form 5A (Completed Interval Report) per Rule 308B. If the well has been plugged, the operator shall also submit a Form 6 (Well Abandonment Report) per Rule 311.

Completion Type [X] Final completion [ ] Preliminary completion

OGCC Operator Number: 69175 Contact Name: Kelsi Welch

Name of Operator: PDC ENERGY INC Phone: (303) 831-3974

Address: 1775 SHERMAN STREET - STE 3000 Fax:

City: DENVER State: CO Zip: 80203

API Number 05-123-19916-00 County: WELD

Well Name: NATIONAL HOG FARMS Well Number: 17-12

Location: QtrQtr: SWNW Section: 17 Township: 5N Range: 63W Meridian: 6

Footage at surface: Distance: 1894 feet Direction: FNL Distance: 660 feet Direction: FWL

As Drilled Latitude: As Drilled Longitude:

GPS Data:

Date of Measurement: PDOP Reading: GPS Instrument Operator's Name:

** If directional footage at Top of Prod. Zone Dist.: feet Direction: Dist.: feet. Direction:

Sec: Twp: Rng:

** If directional footage at Bottom Hole Dist.: feet Direction: Dist.: feet. Direction:

Sec: Twp: Rng:

Field Name: WATTENBERG Field Number: 90750

Federal, Indian or State Lease Number: 259135

Spud Date: (when the 1st bit hit the dirt) 03/01/2000 Date TD: Date Casing Set or D&A:

Rig Release Date: 03/27/2000 Per Rule 308A.b.

Well Classification:

[ ] Dry [X] Oil [ ] Gas/Coalbed [ ] Disposal [ ] Stratigraphic [ ] Enhanced Recovery [ ] Storage [ ] Observation

Total Depth MD 6934 TVD** Plug Back Total Depth MD 6850 TVD**

Elevations GR 4670 KB 4682

Digital Copies of ALL Logs must be Attached per Rule 308A [ ]

List Electric Logs Run:

CASING, LINER AND CEMENT

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Top	Cmt Bot	Status
SURF	12+1/4	8+5/8	24	0	405	285	0	405	
1ST	7+7/8	4+1/2	10.5	0	6,870	330	3,300	6,870	

STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: 05/26/2004

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom
RETAINER	1ST	3,437	410	3,349	3,427

Details of work:

Please see attached ops summary for job details.

FORMATION LOG INTERVALS AND TEST ZONES

FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analysis must be submitted to COGCC)
	Top	Bottom	DST	Cored	

Operator Comments

This submission is to report the annular fill work done in 2004.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Kelsi Welch

Title: Production Tech Date: 12/5/2017 Email: kelsi.welch@pdce.com

Attachment Check List

Att Doc Num	Document Name	attached ?
Attachment Checklist		
401469684	CMT Summary *	Yes ☒ No ☐
	Core Analysis	Yes ☐ No ☒
	Directional Survey **	Yes ☐ No ☒
	DST Analysis	Yes ☐ No ☒
	Logs	Yes ☐ No ☒
	Other	Yes ☐ No ☒
Other Attachments		
401418822	FORM 5 SUBMITTED	Yes ☒ No ☐

General Comments

User Group	Comment	Comment Date
Engineer	Operator submitted explanation: Form was incorrectly submitted stating job was an annular fill, this should have been reported as a remedial squeeze from 3349'-3427'. TOC is still at 3300' as previously reported. Daily ops for this job are as follows: 1. MIRU. RU wireline. 2. TIH with RBP and set at 4144'. TIH with packer, isolate holes in casing between 3343'- 3472'. 3. TIH with cement retainer. Set at 3437'. TIH with tubing. Mix and pump 85 sxs 14.1 ppg 50/50 cement down tubing. 4. Sting out of retainer and POOH with tubing to 3119'. Mix and pump 160 sxs of 12.4 ppg HCl cement followed by 165 sxs of 14.1 ppg 50/50 cement. 5. Reverse out holding 950 psi on squeeze holes. Let cement set overnight. 6. TIH with 3 ¾" drill bit. Tag TOC at 3349'. Drill out cement plug and CICR. Clean out to 4130' and circulate wellbore clean. 7. Circulate down to RBP at 4144'. Release RBP and TOOH.	01/16/2018
Engineer	STAGE/TOP OUT/REMEDIAL CEMENT: 410 sks annular fill with retainer at 3437', but previously reported cement top was 3300' by CBL run 3/24/00. New cement 3427'- 3349'. On an annular fill the new cement top should be above the previous cement top. CEMENT JOB SUMMARY: Job was 5/26/04. Halliburton calls it a squeeze. 2-3/8" tubing at 3437', pumped 12 bbls 14.1 ppg 1.26 cf/sk (53 sks) displaced w/ 13 bbls, shut down, sting out, pull tubing. Pumped 53 bbls 12.4 ppg 1.97 cf/sk (151 sks), and 45 bbls 14.1 ppg 1.26 cf/sk (200 sks), displaced w/ 12 bbls, shut down, reversed out. 12+53+45=110 bbls, 53+151+200=404 sks. Request: Please explain how job was done. Was the first 12 bbls a squeeze and the rest of the cement (53+45 bbls) the annular fill? Was 1" used or were there perfs or a dv tool? Verify top and bottom of the new annular fill cement.	12/27/2017

Total: 2 comment(s)