

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:

401285646

Date Received:

05/17/2017

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 also 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  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 05-123-14481-00 County: WELD  
Well Name: CULBREATH Well Number: 23-21  
Location: QtrQtr: NESW Section: 21 Township: 6N Range: 64W Meridian: 6  
Footage at surface: Distance: 1980 feet Direction: FSL Distance: 2240 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: 67723

Spud Date: (when the 1st bit hit the dirt) 04/07/1990 Date TD: Date Casing Set or D&A:  
Rig Release Date: 04/11/1990 Per Rule 308A.b.

Well Classification:  
 Dry  Oil  Gas/Coalbed  Disposal  Stratigraphic  Enhanced Recovery  Storage  Observation

Total Depth MD 7040 TVD\*\* Plug Back Total Depth MD 7035 TVD\*\*  
Elevations GR 4732 KB 4745 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	314	175	0	175	
1ST	7+7/8	4+1/2	11.6	0	7,040	250	6,328	7,040	CBL

STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: 05/03/2017

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom
1 INCH	1ST	1,143	530	0	1,143

Details of work:

Culbreath 23-21 (05-123-14481)  
Remedial Annular Cementing Procedure

- Surface Csg: 8.625" – 24# - Set @ 314' w/ 175 sxs.
- Production Csg: 4.5" – 11.6# - Set @ 7,040' w/ 250 sxs.
- CBL Production TOC: @ 6,328'
- Deepest water well in area: 780'.

- 1) MIRU WO rig.
- 2) Make sure well is dead. Check Bradenhead pressure.
- 3) POOH with tubing.
- 4) ND WH.
- 5) Spear 4.5" production csg to remove out of slips.
- 6) TIH w/ 1 1/4" 3.02# CS Hydril stick pipe to 1143' in production casing annular space.
- 7) RU cmt unit.
- 8) Mix and pump 530 sxs cement from 1143' to Surface'. Pull 1 1/4" tubing.
- 9) Set slips and NU WH. TIH with tubing.
- 10) RDMO WO rig. Return well to production.

**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

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: 5/17/2017

Email: kelsi.welch@pdce.com

### Attachment Check List

Att Doc Num	Document Name	attached ?	
<u>Attachment Checklist</u>			
401285653	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Directional Survey **	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	DST Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Logs	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Other	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<u>Other Attachments</u>			
401285646	FORM 5 SUBMITTED	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
401285651	PDF-CEMENT BOND	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
401285652	OPERATIONS SUMMARY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Meets requirements of Sundry#401223226. Horizontal Offset Mitigation for Noble pad in NWSW 21-6N-64W: wells going east to sec 22.	05/17/2017

Total: 1 comment(s)