

FORM  
5

Rev  
10/14

# 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:

400491329

Date Received:

## 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/or 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: <u>69175</u>	Contact Name: <u>Cassie Gonzalez</u>
Name of Operator: <u>PDC ENERGY INC</u>	Phone: <u>(303) 860-5800</u>
Address: <u>1775 SHERMAN STREET - STE 3000</u>	Fax: _____
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>	Email: <u>Cassie.Gonzalez@pdce.com</u>

API Number <u>05-123-37129-00</u>	County: <u>WELD</u>
Well Name: <u>Thornton</u>	Well Number: <u>21R-403</u>
Location: QtrQtr: <u>NWNE</u> Section: <u>21</u> Township: <u>7N</u> Range: <u>66W</u> Meridian: <u>6</u>	
	FNL/FSL <span style="float: right;">FEL/FWL</span>
Footage at surface: Distance: <u>410</u> feet Direction: <u>FNL</u> Distance: <u>1650</u> feet Direction: <u>FEL</u>	
As Drilled Latitude: <u>40.566690</u> As Drilled Longitude: <u>-104.779420</u>	

GPS Data:

Date of Measurement: <u>10/20/2013</u>	PDOP Reading: <u>2.5</u>	GPS Instrument Operator's Name: <u>Holly Tracy</u>
	FNL/FSL	FEL/FWL

** If directional footage at Top of Prod. Zone	Dist: <u>810</u> feet	Direction: <u>FNL</u>	Dist: <u>1456</u> feet	Direction: <u>FEL</u>
	Sec: <u>21</u>	Twp: <u>7N</u>	Rng: <u>66W</u>	
		FNL/FSL		FEL/FWL

** If directional footage at Bottom Hole	Dist: <u>503</u> feet	Direction: <u>FSL</u>	Dist: <u>1544</u> feet	Direction: <u>FEL</u>
	Sec: <u>21</u>	Twp: <u>7N</u>	Rng: <u>66W</u>	

Field Name: WATTENBERG Field Number: 90750

Federal, Indian or State Lease Number: \_\_\_\_\_

Spud Date: (when the 1st bit hit the dirt) 07/10/2013 Date TD: 07/23/2013 Date Casing Set or D&A: 07/24/2013

Rig Release Date: 07/25/2013 Per Rule 308A.b.

Well Classification:

Dry  Oil  Gas/Coalbed  Disposal  Stratigraphic  Enhanced Recovery  Storage  Observation

Total Depth MD 11997 TVD\*\* 7464 Plug Back Total Depth MD 11990 TVD\*\* 7464

Elevations GR 4970 KB 4985 Digital Copies of ALL Logs must be Attached per Rule 308A

List Electric Logs Run:

CBL, MWD

### 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	13+3/4	9+5/8	36	0	926	830	0	931	VISU
1ST	8+3/4	7	26	0	7,902	664	110	7,902	CBL
1ST LINER	6+1/8	4+1/2	13.5	7749	11,994				

### STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: \_\_\_\_\_

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom

Details of work:

### 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	
PARKMAN	3,933				
SUSSEX	4,467				
SHANNON	5,108				
SHARON SPRINGS	7,176				
NIOBRARA	7,263				
FORT HAYS	7,956				
CODELL	8,225				
CARLILE	8,855				

Operator Comments:

MWD tool quit working prior to TD.  
 No open hole logs were run on this pad. APD was approved with no logging BMPs or exceptions.  
 Corrections made on CBL by operator due to vendor losing large database files in truck fire.  
 TOC comments from our Engineer: 7" TOC picked at fluid level (11.2 lead) with 5 bbls returned and lower amps.

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

Signed: \_\_\_\_\_ Print Name: Cassie Gonzalez

Title: Regulatory Technician Date: \_\_\_\_\_ Email: Cassie.Gonzalez@pdce.com

### Attachment Check List

Att Doc Num	Document Name	attached ?	
<u>Attachment Checklist</u>			
402134361	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
402134360	Directional Survey **	Yes <input checked="" type="checkbox"/>	No <input 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>			
402134353	LAS-MWD/LWD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402134354	PDF-MWD/LWD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402134362	DIRECTIONAL DATA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402141452	PDF-CBL 1ST RUN	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402189768	LAS-CBL 1ST RUN	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Return to draft for AOC settlement.	09/06/2016
Permit	Second request to opr.	04/22/2014
Permit	Date casing set is before TD. Missing formation tops above Codell. Missing PDF of mud log (should go to TD) Calculating 740 FNL for TPZ; 879 FSL for BHL	03/12/2014

Total: 3 comment(s)

