

FORM
5Rev
02/08

State of Colorado

Oil and Gas Conservation Commission

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



DE ET OE ES

Document Number:

400307856

Date Received:

08/31/2012

DRILLING COMPLETION REPORT

This form is to be submitted within 30 days of the setting of production casing, the plugging of a dry hole, the deepening or sidetracking of a well, or any time the wellbore configuration is changed. If the well is deepened or sidetracked a new Form 5 is required. If an attempt has been made to complete/produce a well, then the operator shall submit Form 5A (Completed Interval Report.) If the well has been plugged, a form 6 (Well Abandonment Report) is required.

Completion Type ☒ Final completion ☐ Preliminary completion

1. OGCC Operator Number: 100185

4. Contact Name: Sheilla Reed-High

2. Name of Operator: ENCANA OIL & GAS (USA) INC

Phone: (720) 876-3678

3. Address: 370 17TH ST STE 1700

Fax: (720) 876-4678

City: DENVER State: CO Zip: 80202-

5. API Number 05-123-34362-00

6. County: WELD

7. Well Name: GRATTAN

Well Number: 4B-30H

8. Location: QtrQtr: SESE Section: 30 Township: 2N Range: 64W Meridian: 6

Footage at surface: Distance: 622 feet Direction: FSL Distance: 488 feet Direction: FEL

As Drilled Latitude: 40.104028 As Drilled Longitude: -104.586026

GPS Data:

Data of Measurement: 03/26/2012 PDOP Reading: 4.4 GPS Instrument Operator's Name: Pat Linderholm

** If directional footage at Top of Prod. Zone Dist.: 964 feet. Direction: FSL Dist.: 1659 feet. Direction: FEL

Sec: 30 Twp: 2N Rng: 64W

** If directional footage at Bottom Hole Dist.: 473 feet. Direction: FNL Dist.: 1559 feet. Direction: FEL

Sec: 30 Twp: 2N Rng: 64W

9. Field Name: WATTENBERG

10. Field Number: 90750

11. Federal, Indian or State Lease Number:

12. Spud Date: (when the 1st bit hit the dirt) 02/09/2012 13. Date TD: 02/23/2012 14. Date Casing Set or D&A: 02/27/2012

15. Well Classification:

☐ Dry ☐ Oil ☐ Gas/Coalbed ☐ Disposal ☐ Stratigraphic ☐ Enhanced Recovery ☐ Storage ☐ Observation

16. Total Depth MD 11408 TVD** 6984 17 Plug Back Total Depth MD 11308 TVD** 6984

18. Elevations GR 4935 KB 4946

One paper copy of all electric and mud logs must be submitted, along with one digital LAS copy as available.

19. List Electric Logs Run:

Array Ind, Density Ray Memory Log, Spectral Density Dual Spaced Neutron Mem Log

20. Casing, Liner and Cement:

CASING

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	9+5/8	40	0	1,000	275	0	1,000	CALC
1ST	8+3/4	7+0/0	26	0	7,510	630	0	7,510	CALC
2ND	6+1/8	4+1/2	11.6	0	11,408	300	7,000	11,379	CALC

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:

21. Formation log intervals and test zones:

FORMATION LOG INTERVALS AND TEST ZONES

FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analyses must be submitted to COGCC)
	Top	Bottom	DST	Cored	
NIOBRARA	7,015		<input type="checkbox"/>	<input type="checkbox"/>	

Comment:

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

Signed: _____ Print Name: Sheilla Reed-High

Title: Drilling and Compl. Tech. Date: 8/31/2012 Email: sheilla.reedhigh@Encana.com

Attachment Check List

Att Doc Num	Document Name	attached ?			
<u>Attachment Checklist</u>					
400322820	CMT Summary *	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	Core Analysis	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
400307857	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>					
400307856	FORM 5 SUBMITTED	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400322823	PDF-DENSITY/NEUTRON	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400322826	LAS-DENSITY/NEUTRON	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400322827	PDF-MUD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400322847	PDF-MUD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400364519	DIRECTIONAL DATA	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Lack of CBL mitigated by cement returns to surface per Engineering. Ready to pass.	6/27/2013 8:26:38 AM
Engineer	Engineering ready to pass.	6/27/2013 7:24:07 AM
Permit	Bottom of productive zone is 11295' per 5A, 113' short of TD putting it more than 460' from unit boundary. On hold for CBL.	1/3/2013 2:50:46 PM
Permit	Spoke with James Jmieff. He says they know the well TDd at around 382 FNL, but there is cement in the bottom 100' and completion is 473 FNL. WO 5A to check the completed interval. Paper logs received 11/15/12	11/20/2012 11:35:37 AM
Permit	Wrote for more clarification of PBTD on Directional Survey. Trying to make sure that PBTD is 100' short of the TD so that BHL is >460' from section line.	11/13/2012 1:52:02 PM
Permit	Changed hole and casing sizes to fractions from decimals. Note- Surface casing read 9.625. i changed it to 9 5/8, but it does not match the APD value of 8 5/8. Requested paper logs. Requested directional data spreadsheet. Wrote to operator about discrepancy in footage calculations, notably BHL. (my calcs - 382 FNL).	11/2/2012 1:24:45 PM

Total: 6 comment(s)