

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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Date Received:

12/28/2012

PluggingBond SuretyID

20100017

## APPLICATION FOR PERMIT TO:

1.  Drill,  Deepen,  Re-enter,  Recomplete and Operate

### 2. TYPE OF WELL

OIL  GAS  COALBED  OTHER \_\_\_\_\_  
SINGLE ZONE  MULTIPLE  COMMINGLE

Refiling

Sidetrack

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

4. COGCC Operator Number: 100185

5. Address: 370 17TH ST STE 1700

City: DENVER State: CO Zip: 80202-5632

6. Contact Name: Erin Hochstetler Phone: (720)876-5827 Fax: ( )

Email: erin.hochstetler@encana.com

7. Well Name: MATHEWS Well Number: 4G-14H

8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

9. Proposed Total Measured Depth: 11970

## WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 14 Twp: 1N Rng: 66W Meridian: 6

Latitude: 40.045280 Longitude: -104.737270

Footage at Surface: 471 feet FSL 649 feet FEL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 5104 13. County: WELD

### 14. GPS Data:

Date of Measurement: 12/06/2012 PDOP Reading: 2.0 Instrument Operator's Name: RICE

15. If well is  Directional  Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_ Bottom Hole: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_  
739 FSL 38 FEL 460 FNL 50 FEL  
Sec: 14 Twp: 1N Rng: 66W Sec: 14 Twp: 1N Rng: 66W

16. Is location in a high density area? (Rule 603b)?  Yes  No

17. Distance to the nearest building, public road, above ground utility or railroad: 439 ft

18. Distance to nearest property line: 471 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 850 ft

## 20. LEASE, SPACING AND POOLING INFORMATION

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR		320	GWA

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: \_\_\_\_\_

22. Surface Ownership:  Fee  State  Federal  Indian

23. Is the Surface Owner also the Mineral Owner?  Yes  No Surface Surety ID#: \_\_\_\_\_

23a. If 23 is Yes: Is the Surface Owner(s) signature on the lease?  Yes  No

23b. If 23 is No:  Surface Owners Agreement Attached or  \$25,000 Blanket Surface Bond  \$2,000 Surface Bond  \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):  
 T1N, R66W: Section 14: All, See attached lease map.

25. Distance to Nearest Mineral Lease Line: 50 ft                      26. Total Acres in Lease: 640

**DRILLING PLANS AND PROCEDURES**

27. Is H2S anticipated?     Yes                       No    If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling?     Yes                       No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling?     Yes                       No

30. If questions 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)?     Yes                       No

31. Mud disposal:     Offsite     Onsite                      **If 28, 29, or 30 are "Yes" a pit permit may be required.**

Method:     Land Farming                       Land Spreading                       Disposal Facility                      Other: \_\_\_\_\_

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	22	16	30	0	80	80	80	0
SURF	12+1/4	9+5/8	40	0	1,292	162	1,292	0
1ST	8+3/4	7	26	0	7,881	447	7,881	992
2ND	6+1/8	4+1/2	13.5	0	11,970	168	11,970	7,581

32. BOP Equipment Type:     Annular Preventer                       Double Ram                       Rotating Head                       None

33. Comments    Proposed spacing unit is T1N, R66W, Section 13 W/2W/2, Section 14: E/2E/2.

34. Location ID: \_\_\_\_\_

35. Is this application in a Comprehensive Drilling Plan ?     Yes                       No

36. Is this application part of submitted Oil and Gas Location Assessment ?     Yes                       No

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

Signed: \_\_\_\_\_                      Print Name: Erin Hochstetler

Title: Permitting Technician                      Date: 12/28/2012                      Email: erin.hochstetler@encana.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: *Matthew Lee*                      Director of COGCC                      Date: 2/21/2013

**API NUMBER**

05 123 36837 00

Permit Number: \_\_\_\_\_                      Expiration Date: 2/20/2015

**CONDITIONS OF APPROVAL, IF ANY:**

\_\_\_\_\_

**All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.**

- 1) Provide notice of MIRU via an electronic Form 42.
- 2) Comply with Rule 317.i and provide cement coverage to a minimum of 200' above the Niobrara. Verify cement coverage with a cement bond log per 317.o.

## Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.

### Attachment Check List

Att Doc Num	Name
1695562	PROPOSED SPACING UNIT
2482086	SURFACE CASING CHECK
400348462	FORM 2 SUBMITTED
400362665	MINERAL LEASE MAP
400362742	WELL LOCATION PLAT
400364399	30 DAY NOTICE LETTER
400364402	DIRECTIONAL DATA
400366061	DEVIATED DRILLING PLAN

Total Attach: 8 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	Per operator: removed surface bond.	2/21/2013 1:24:31 PM
Permit	Final Review Completed. No LGD or public comment received.	2/20/2013 2:12:12 PM
Permit	Received and attached corrected 30 day cert letter. changed unit acreage from 480 to 320 per operator. ok to pass.	2/20/2013 2:12:11 PM
Permit	ON HOLD: Proposed Spacing unit acreage for all the wells on this pad is 480 acres, but the declared units are only 320 acres.	2/14/2013 11:43:01 AM
Permit	Received correct mineral lease description. Confirmed surface owner is mineral owner is yes. No signature on lease. Surface blanket bond & Surface Surety # is correct. Received and attached corrected Proposed Spacing Unit. Changed distance to nearest well from 479' to 850' per operator. ok to pass.	2/5/2013 11:28:49 AM
Permit	Received form 2A. ON HOLD: requesting correct mineral lease description, confirm surface owner is mineral owner is yes. Request removal of bond. Request Proposed Spacing Unit with bottom hole indicated.	1/28/2013 2:10:22 PM
Permit	ON HOLD: w/o form 2A.	1/14/2013 3:25:49 PM
Engineer	Evaluated offset wells for adequate cement coverage.	1/10/2013 2:37:36 PM
Permit	Operator made correction.	1/8/2013 11:09:06 AM
Permit	Return to draft: 1. deviated drilling plan SHL 50'FEL, does not match plat or line #10 SHL 649'FEL. operator amended items #1 and #2.	1/3/2013 11:59:25 PM
Permit	Reurn to draft: 1. 30 day notice attachment contains superfluous info. (proposed space units for all wells); remove info. not pertaining to Mathews 4G-14H, 2. directional drilling template/import is missing azimuth values (DDplan & DDdata spreadsheet do contain az. values), 3. deviated drilling plan SHL 50'FEL, does not match plat SHL 649'FEL.	12/30/2012 2:27:00 PM

Total: 11 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	Encana will comply with the "COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area", dated May 29, 2012.
Drilling/Completion Operations	Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as-constructed gyro survey will be submitted to COGCC with the Form 5.

Total: 2 comment(s)