

FORM  
2

Rev  
12/05

# 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:

400358603

Date Received:

12/18/2012

## 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

PluggingBond SuretyID

20100017

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: State Peterson Well Number: 2B-20H

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

9. Proposed Total Measured Depth: 11952

## WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 20 Twp: 5N Rng: 63W Meridian: 6

Latitude: 40.388460 Longitude: -104.465330

Footage at Surface: 1282 feet FNL 1299 feet FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4579 13. County: WELD

### 14. GPS Data:

Date of Measurement: 11/16/2012 PDOP Reading: 2.3 Instrument Operator's Name: John McGehee

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

Footage at Top of Prod Zone: 851 FNL 731 FWL Bottom Hole: 660 FNL 460 FEL  
Sec: 20 Twp: 5N Rng: 63W Sec: 20 Twp: 5N Rng: 63W

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: 927 ft

18. Distance to nearest property line: 1282 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 173 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#: 20090011

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):

N2 Section 20 T5N, R63W, Weld County, Colorado

25. Distance to Nearest Mineral Lease Line: 460 ft 26. Total Acres in Lease: 320

### 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	800	100	800	0
1ST	8+3/4	7	26	0	7,742	438	7,742	500
2ND	6+1/8	4+1/2	13.5	0	11,952	173	11,952	7,442

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

33. Comments Encana also requests the approval of the omission of open hole logs, request letter attached. Proposed spacing unit is N2 Section 20 T5N, R63W, Weld County, Colorado.

34. Location ID: 331940

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: 12/18/2012 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: 1/31/2013

**API NUMBER**

05 123 36632 00

Permit Number: \_\_\_\_\_ Expiration Date: 1/30/2015

**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.

Per the attached correspondence (doc# 2482109), State Peterson #1 (API# 123-10263) is to be remediated to provide adequate formation isolation. Both a Form 4 Sundry Notice detailing the required remediation and a Form 5 Drilling Completion Report describing the work done must be submitted and approved for the referenced well prior to the hydraulic fracture treatment of this well.

- 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
2233837	PROPOSED SPACING UNIT
2482109	CORRESPONDENCE
400358603	FORM 2 SUBMITTED
400359614	WELL LOCATION PLAT
400359620	DEVIATED DRILLING PLAN
400359621	MINERAL LEASE MAP
400359623	DIRECTIONAL DATA
400359950	30 DAY NOTICE LETTER
400359951	OTHER

Total Attach: 9 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	1/28/2013 10:32:04 AM
Permit	State land board ok with location and bond.	1/24/2013 3:18:36 PM
Permit	Per operator attached corrected proposed spacing unit.	1/11/2013 1:22:59 PM
Engineer	Evaluated offset wells for adequate cement coverage.	1/10/2013 2:46:31 PM
Permit	Requested corrected proposed spacing unit attachment. Notified state land board. Initial review complete. Water samples have been taken per 318A for this section.	1/8/2013 9:54:52 AM
Permit	operator completed #34. This form passed completeness.	1/3/2013 10:46:16 PM
Permit	Return to draft: 1. question #34, location ID#331940, incomplete.	12/20/2012 3:25:22 PM

Total: 7 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)