

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:

400439287

Date Received:

07/08/2013

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: Bonnie Lamond Phone: (720)876-5156 Fax: ()  
Email: bonnie.lamond@encana.com

7. Well Name: Boyd Well Number: 3G-19H-M368

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

9. Proposed Total Measured Depth: 11413

WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 19 Twp: 3N Rng: 68W Meridian: 6

Latitude: 40.206440 Longitude: -105.052980

Footage at Surface: 1009 feet FSL 612 feet FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 5004 13. County: WELD

14. GPS Data:

Date of Measurement: 05/28/2013 PDOP Reading: 1.5 Instrument Operator's Name: John 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 \_\_\_\_\_  
252 FSL 592 FWL 200 FSL 460 FEL  
Sec: 19 Twp: 3N Rng: 68W Sec: 19 Twp: 3N Rng: 68W

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: 532 ft

18. Distance to nearest property line: 310 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 698 ft

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.)
NIORARA	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):

T3N R68W Sec 19: Part of the SW/4, Sec 30: Part of the NW/4. Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'.

25. Distance to Nearest Mineral Lease Line: 0 ft 26. Total Acres in Lease: 50

### 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
1ST	8+3/4	7	26	0	7223	407	7223	500
2ND	6+1/8	4+1/2	13.5	0	11413	172	11413	6923
CONDUCTOR	22	16	30	0	80	80	80	
SURF	12+1/4	9+5/8	40	0	800	100	800	

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

33. Comments Encana Oil & Gas (USA) Inc. requests the approval of a 318A(l).a.(1) and 318A(l).c(1) exception location as the well head is to be located outside of a GWA drilling window and further than 50' from an existing well. Request letter and waivers attached. Encana Oil & Gas (USA) Inc. also requests the approval of the omission of open hole logs, request letter attached. Proposed unit configuration is T3N R68W Section 19: S/2S/2, T3N R68W Section 30: N/2N/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: Bonnie Lamond

Title: Permitting Technician Date: 7/8/2013 Email: bonnie.lamond@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: 8/8/2013

<b>API NUMBER</b> 05 123 37794 00	Permit Number: _____	Expiration Date: <u>8/7/2015</u>
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**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.**

<b>COA Type</b>	<b>Description</b>
	Operator will place an explicit comment on the Drilling Completion Report documenting which well on this pad or quarter section was logged with a full suite of open hole logs.
	Operator must meet water well testing requirements per Rule 318A.
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log. 3) Comply with Rule 321. Run and submit Directional Survey from TD to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

### **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**

<b>Att Doc Num</b>	<b>Name</b>
1695786	PROPOSED SPACING UNIT
400439287	FORM 2 SUBMITTED
400444506	MINERAL LEASE MAP
400444507	EXCEPTION LOC REQUEST
400444508	OTHER
400444510	WELL LOCATION PLAT
400444511	30 DAY NOTICE LETTER
400444513	OFFSET WELL EVALUATION
400444514	EXCEPTION LOC WAIVERS
400444517	DEVIATED DRILLING PLAN
400444518	SURFACE AGRMT/SURETY
400444520	EXCEPTION LOC WAIVERS
400444523	DIRECTIONAL DATA

Total Attach: 13 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Final Review Completed. No LGD or public comment received.	8/8/2013 11:05:11 AM
Permit	Received and attached updated PSU. ok to pass.	8/8/2013 11:04:57 AM
Permit	Moved Horizontal wellbore crossing lease lines from Operator Comments to Minerals per operator. ON HOLD: requesting corrected PSU. Map for Boyd 3E.	7/25/2013 10:48:28 AM
Permit	Operator requests approval of a Rule 318Aa exception location: Wellhead is to be located outside of a GWA drilling window. Request and Waiver attached.	7/25/2013 10:48:27 AM
Permit	Operator's request for omission of open hole logs.	7/25/2013 10:48:26 AM
Permit	Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'.	7/25/2013 10:48:25 AM
Permit	Pass Completeness.	7/9/2013 10:43:05 AM

Total: 7 comment(s)

## Best Management Practices

No	<u>BMP/COA Type</u>	<u>Description</u>
1	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 well path 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.
2	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.

Total: 2 comment(s)