

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:

400441634

Date Received:

07/12/2013

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 &amp; 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: Chris McRickard Phone: (720)876-5586 Fax: (720)876-6584

Email: chris.mcrickard@encana.com

7. Well Name: Bohrer Well Number: 2G-19H-E368

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

9. Proposed Total Measured Depth: 11500

## WELL LOCATION INFORMATION

10. QtrQtr: SWNW Sec: 19 Twp: 3n Rng: 68w Meridian: 6

Latitude: 40.214320 Longitude: -105.052450

Footage at Surface: 1422 feet FNL/FSL FNL 762 feet FEL/FWL FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 5059 13. County: WELD

## 14. GPS Data:

Date of Measurement: 06/12/2013 PDOP Reading: 1.9 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  
 2237 FNL 594 FWL 2300 FNL 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: 417 ft

18. Distance to nearest property line: 103 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 405 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 ☐ Indian23. 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 ☐ No23b. 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):

-Please see attached mineral lease map. [T3N R68W Sec 19: Part of the W/2NE/4, Part of the N/2NW/4, Part of the S/2NW/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: 101

### 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	7290	411	7290	500
2ND	6+1/8	4+1/2	13.5	0	11500	173	11500	6990

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

33. Comments - Encana requests the approval of a 318A.a.(1), 318A.c(1) and 603.a(2) exception location as the well head is to be located outside of a GWA drilling window, further than 50' from an existing well and closer than 150' to a property line. Request letter and waivers attached. - Encana requests the approval of the omission of open hole logs; request letter attached.- Proposed spacing unit is T3N R68W Section 19: S/2N/2, N/2S/2- The distance to nearest well permitted/completed in the same formation (BHL) is found on page 8 of the Anti-Collision report.-"The disturbed area for the Bohrer Trust 19H-E368 drill pad straddles two parcels which are both owned by the Kermit O. Bohrer Trust."

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: Chris McRickard

Title: Permitting Analyst Date: 7/12/2013 Email: chris.mcrickard@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: 11/18/2013

#### API NUMBER

05 123 38443 00

Permit Number: \_\_\_\_\_ Expiration Date: 11/17/2015

#### 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.

**Description**

- 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.

Operator must meet water well testing requirements per Rule 318A.

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.

Data retrieval failed for the subreport 'IntPolicy\_NTO' located at: \\DorDonSterling\oFormReports\policy\_nto.rdl. Please

**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400441634	FORM 2 SUBMITTED
400442458	WELL LOCATION PLAT
400442461	DEVIATED DRILLING PLAN
400442462	DIRECTIONAL DATA
400442465	30 DAY NOTICE LETTER
400445492	PROPOSED SPACING UNIT
400447055	EXCEPTION LOC REQUEST
400447056	EXCEPTION LOC WAIVERS
400447057	OFFSET WELL EVALUATION
400447311	MINERAL LEASE MAP
400447312	OTHER

Total Attach: 11 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Per operator: "The disturbed area for the Bohrer Trust 19H-E368 drill pad straddles two parcels which are both owned by the Kermit O. Bohrer Trust."	11/18/2013 11:31:00 AM
Permit	Final Review Completed. Public comment addressed (see comments); no LGD comment received.	11/15/2013 2:11:16 PM
Permit	ON HOLD: w/o response to public comment on 2A.	8/9/2013 11:07:40 AM
Permit	ok to pass.	7/22/2013 3:00:59 PM
Permit	Operator requests approval of a Rule 603.a.(2) exception location: Wellhead is to be located less than 150' from a property line. Request letter and waivers attached.	7/22/2013 3:00:56 PM
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.	7/22/2013 3:00:56 PM
Permit	Operator's request for omission of open hole logs.	7/22/2013 3:00:55 PM
Permit	Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'.	7/22/2013 3:00:54 PM
Permit	This form has passed completeness.	7/16/2013 8:46:15 AM

Total: 9 comment(s)

## **Best Management Practices**

No	BMP/COA Type	Description
1	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.
2	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)