

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:

400395277

Date Received:

04/15/2013

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: Erin Hochstetler Phone: (720)876-5827 Fax: ()

Email: erin.hochstetler@encana.com

7. Well Name: Maier Well Number: 4A-28H

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

9. Proposed Total Measured Depth: 11785

WELL LOCATION INFORMATION

10. QtrQtr: SWSE Sec: 28 Twp: 2N Rng: 66W Meridian: 6

Latitude: 40.103650 Longitude: -104.780980

Footage at Surface: 658 feet FNL/FSL 2303 feet FEL/FWL FEL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4974 13. County: WELD

14. GPS Data:

Date of Measurement: 01/17/2013 PDOP Reading: 1.6 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 761 FSL 2468 FEL 460 FEL/FWL 2480 FEL 460
Bottom Hole: FNL/FSL 2480 FEL/FWL 460
Sec: 28 Twp: 2N Rng: 66W Sec: 28 Twp: 2N 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: 334 ft

18. Distance to nearest property line: 274 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 148 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):

T2N, R66W, Section 28: S/2NE/4, N/2SE/4 - Section 28: East 225' N2NE & East 330 feet of S/2SE/4 - Section 28: N/2NE/4 - Section 28: Metes and bounds in the S2SE

25. Distance to Nearest Mineral Lease Line: 0 ft

26. Total Acres in Lease: 249

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	977	122	977	0
1ST	8+3/4	7	26	0	7,713	437	7,713	677
2ND	6+1/8	4+1/2	13.5	0	11,785	167	11,785	7,413

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

33. Comments Encana requests the approval of a 318A(l).a.(1) exception location as the well head is to be located outside of a GWA drilling window. Request letter and waivers attached. This well is closer than 150' to the nearest permitted or producing BHL. A 318A.m. variance request letter and waivers are attached. Encana also requests the approval of the omission of open hole logs, request letter attached. Proposed spacing unit is E/2W/2 and W/2E/2 of Section 28 T2N R66W. Horizontal wellbore crosses lease line within GWA spacing unit. Attached to this document is a more detailed description of the 66 acres listed in the SUA. The attachment is marked as 'Other'.

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: 4/15/2013 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: 5/22/2013

API NUMBER

05 123 37429 00

Permit Number: _____ Expiration Date: 5/21/2015

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 and from 200' below Sussex to 200' above Sussex. 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
2482356	SURFACE CASING CHECK
400395277	FORM 2 SUBMITTED
400395512	WELL LOCATION PLAT
400395513	DEVIATED DRILLING PLAN
400395514	30 DAY NOTICE LETTER
400395516	DIRECTIONAL DATA
400397145	OFFSET WELL EVALUATION
400397146	SURFACE AGRMT/SURETY
400397148	OTHER
400397149	PROPOSED SPACING UNIT
400397150	EXCEPTION LOC REQUEST
400397151	EXCEPTION LOC WAIVERS
400404357	MINERAL LEASE MAP
400406318	OTHER

Total Attach: 14 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is greater than 460'. Corrected acres in lease to 249 per operator. Closest well, Maier 4-4-28, is 160' away. operator agreed. Variance Request removed. Ready to pass pending public comment.	5/10/2013 12:59:33 PM
Engineer	Evaluated offset wells for adequate cement coverage.	4/25/2013 12:34:34 PM
Permit	Casing data provided. Passed completeness.	4/23/2013 8:53:19 AM
Permit	Returned to draft: 1) Casing info needs to be provided.	4/19/2013 7:04:58 AM
Permit	Returned to draft. Bond number needs to be removed line 22b. Requested more specific description of lands in the SUA.	4/16/2013 1:00:39 PM

Total: 5 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
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.
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)