

FORM

2

Rev  
12/05

## State of Colorado

## Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400264959

Date Received:

03/26/2012

PluggingBond SuretyID

## APPLICATION FOR PERMIT TO:

1. ☐ Drill, ☐ Deepen, ☐ Re-enter, ☒ **Recomplete and Operate**

## 2. TYPE OF WELL

OIL ☐ GAS ☐ COALBED ☐ OTHER Water Injection  
 SINGLE ZONE ☒ MULTIPLE ☐ COMMINGLE ☐

Refiling ☐Sidetrack ☐3. Name of Operator: ENCANA OIL & GAS (USA) INC4. COGCC Operator Number: 1001855. Address: 370 17TH ST STE 1700City: DENVER State: CO Zip: 80202-56326. Contact Name: RUTHANN MORSS Phone: (720)876-5060 Fax: (720)876-6060Email: RUTHANN.MORSS@ENCANA.COM7. Well Name: HMU Well Number: 11-9 (P11SW)8. Unit Name (if appl): MIDDLETON CREEK Unit Number: COC689979. Proposed Total Measured Depth: 9555

## WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 11 Twp: 8S Rng: 93W Meridian: 6Latitude: 39.371740 Longitude: -107.734080

Footage at Surface: 218 feet FSL 568 feet FEL  
 FNL/FSL FEL/FWL

11. Field Name: MAMM CREEK Field Number: 5250012. Ground Elevation: 7706 13. County: GARFIELD

## 14. GPS Data:

Date of Measurement: 07/08/2008 PDOP Reading: 3.0 Instrument Operator's Name: JAY TAGGART15. 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  
1916 FSL 715 FEL 2022 FSL 689 FEL  
 Sec: 11 Twp: 8S Rng: 93W Sec: 11 Twp: 8S Rng: 93W

16. Is location in a high density area? (Rule 603b)? ☐ Yes ☒ No17. Distance to the nearest building, public road, above ground utility or railroad: 4500 ft18. Distance to nearest property line: 206 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 2493 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.)
WASATCH	WSTC			

21. Mineral Ownership: ☐ Fee ☐ State ☒ Federal ☐ Indian Lease #: COC5226022. 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):

T8S-R93W SEC 11: TRACT 46 EXCEPT THE SOUTHWEST 40 ACRES

25. Distance to Nearest Mineral Lease Line: 660 ft

26. Total Acres in Lease: 280

### 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: no mud will be used

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	20	16	42	0	60	80	60	0
SURF	12+1/4	8+5/8	32	0	1,492	765	1,492	0
1ST	7+7/8	4+1/2	11.6	0	9,550	1,175	9,555	4,050

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

33. Comments THIS IS AN EXISTING WELL WHICH WE ARE PLANNING TO CONVERT TO INJECTION. THE PREP FOR INJECTION SUNDRY HAS BEEN SUBMITTED SEPARATELY.

34. Location ID: 334323

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: RUTHANN MORSS

Title: REGULATORY ANALYST

Date: 3/26/2012

Email: RUTHANN.MORSS@ENCANA

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: \_\_\_\_\_

Director of COGCC

Date: 4/17/2012

#### API NUMBER

05 045 10146 00

Permit Number: \_\_\_\_\_

Expiration Date: 4/16/2014

#### 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) COMPLIANCE WITH THE MOST CURRENT REVISION OF THE NORTHWEST COLORADO NOTIFICATION POLICY IS REQUIRED.

(2) BEFORE STIMULATING WELL, obtain and have water sample from MCU #2 well analyzed, then SUBMIT LAB ANALYSIS TO DENISE ONYSKIW AT DENISE.ONYSKIW@STATE.CO.US.

(3) INJECTION IS NOT AUTHORIZED UNTIL APPROVAL OF FORMs 31 AND 33.

(4) A STEP RATE TEST TO DETERMINE FRACTURE PRESSURE IS PERMISSIBLE BEFORE APPROVING FORMS 31 AND 33, BUT MUST BE GIVEN COGCC APPROVAL PRIOR TO CONDUCTING THE TEST. THE TEST VOLUME MUST NOT EXCEED 5,000 BBLS AND THE TEST DURATION MUST NOT EXCEED 5 DAYS, OR THE TEST VOLUME MUST NOT EXCEED 10,000 BBLS AND THE DURATION MUST NOT EXCEED 10 DAYS.

### **Attachment Check List**

Att Doc Num	Name
400264959	FORM 2 SUBMITTED

Total Attach: 1 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	eng. COA's for injection attached and sundry for recompletion approved. no forms 31 & 33 until injectivity tests complete. LGD passed; pub. comments waived. Final Review--passed.	4/17/2012 7:37:01 AM
LGD	Pass	3/27/2012 3:44:12 PM
Permit	Operator input #15, 22b, 31, 32, 34, and 36. This form has passed completeness.	3/27/2012 7:04:34 AM
Permit	Returned to draft. Missing #15, 22b, 31, 32, 34, and 36.	3/26/2012 2:29:57 PM

Total: 4 comment(s)

### **BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>

Total: 0 comment(s)