

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



|    |    |    |    |
|----|----|----|----|
| DE | ET | OE | ES |
|----|----|----|----|

## APPLICATION FOR PERMIT TO:

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

## 2. TYPE OF WELL

 OIL ☐ GAS ☒ COALBED ☐ OTHER \_\_\_\_\_  
 SINGLE ZONE ☐ MULTIPLE ZONE ☒ COMMINGLE ZONE ☐
Refiling ☒Sidetrack ☐

Document Number:

400009422

Plugging Bond Surety

20040071

3. Name of Operator: ANTERO RESOURCES PICEANCE CORPORATION4. COGCC Operator Number: 100795. Address: 1625 17TH ST STE 300City: DENVER State: CO Zip: 802026. Contact Name: Ashlie Mihalcin Phone: (303)357-7323 Fax: (303)357-7315Email: amihalcin@anteroresources.com7. Well Name: North Bank Well Number: C9

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

9. Proposed Total Measured Depth: 14359

## WELL LOCATION INFORMATION

10. QtrQtr: NESW Sec: 12 Twp: 6S Rng: 93W Meridian: 6Latitude: 39.539539 Longitude: -107.727142
 Footage at Surface: 2148 FNL/FSL FSL 1905 FEL/FWL FWL
11. Field Name: Mamm Creek Field Number: 5250012. Ground Elevation: 5352 13. County: GARFIELD

## 14. GPS Data:

Date of Measurement: 10/13/2006 PDOP Reading: 1.3 Instrument Operator's Name: Samuel D. Phelps15. If well is ☒ Directional ☐ Horizontal (highly deviated) **submit deviated drilling plan.**
 Footage at Top of Prod Zone: FNL/FSL 2267 FSL 1820 FWL FWL Bottom Hole: FNL/FSL 2267 FSL 1820 FWL FWL  
 Sec: 12 Twp: 6S Rng: 93W Sec: 12 Twp: 6S 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: 132618. Distance to nearest property line: 965 19. Distance to nearest well permitted/completed in the same formation: 479

## 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.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| Iles                   | ILES           | 191-25                  |                               |                                      |
| Mancos                 | MNCS           | 191-60                  |                               |                                      |
| Williams Fork          | WMFK           | 510-16                  |                               |                                      |

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 Bon ☐ \$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):  
T6S-R93W: Section 12 (part of section) -See plat #6

25. Distance to Nearest Mineral Lease Line: \_\_\_\_\_ 1000 \_\_\_\_\_ 26. Total Acres in Lease: \_\_\_\_\_ 241 \_\_\_\_\_

### 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 27 or 28 are yes, is this location in a sensitive area (Rule 903)? ☐ Yes ☒ No If 28, 29, or 30 are "Yes" a pit permit may be required.

31. Mud disposal: ☒ Offsite ☐ Onsite

Method: ☐ Land Farming ☐ Land Spreading ☐ Disposal Facility Other: Closed Loop/Grfld Cty Lndfl

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 | Weight Per Foot | Setting Depth | Sacks Cement | Cement Bottom | Cement Top |
|-------------|--------------|----------------|-----------------|---------------|--------------|---------------|------------|
| CONDUCTOR   | 24+0/0       | 16+0/0         | 55#             | 60            | 177          | 60            | 0          |
| SURF        | 12+1/4       | 9+5/8          | 36#             | 1,500         | 591          | 1,500         | 0          |
| 2ND         | 8+1/2        | 7+0/0          | 26#             | 9,019         | 2,011        | 9,019         | 0          |
| 3RD         | 6+1/8        | 4+1/2          | 15.1#           | 14,359        | 2,989        | 14,359        | 4,699      |

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

33. Comments I certify that all conditions in the original permit are the same except revised SHL/BHL change, csg/cmt program and updated distances. There have been no changes to land use, well construction, or the lease. This pad is built. No expansion/additional disturbance will occur. Closed loop system will be used.

34. Location ID: 336013

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: Ashlie Mihalcin

Title: Permit Representative Date: 11/2/2009 Email: amihalcin@anteroresources.co

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: \_\_\_\_\_

Permit Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

**API NUMBER**

05 045 13617 00

**CONDITIONS OF APPROVAL, IF ANY:**

---

**Attachment Check List**

| Att Doc Num | Name                   | Doc Description  |
|-------------|------------------------|--|
| 400012825   | 30 DAY NOTICE LETTER   | North Bank 'C' 305-306 Waiver Letter (Sent 10-15-09).pdf |
| 400012826   | WAIVERS                | North Bank C 305-306 Signed Waiver (10-22-09).pdf        |
| 400012827   | WELL LOCATION PLAT     | Northbank C-9 Plat 1 10-29-2009.pdf                      |
| 400012829   | DEVIATED DRILLING PLAN | ANTERO NORTHBANK C9 P01 (COGCC Copy).pdf                 |
| 400012833   | FORM 2 SUBMITTED       | 400012833.pdf  |

Total Attach: 5 Files