

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



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| DE | ET | OE | ES |
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Document Number:

400075496

Plugging Bond Surety

20040071

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 ☐

3. Name of Operator: ANTERO RESOURCES PICEANCE CORPORATION

4. COGCC Operator Number: 10079

5. Address: 1625 17TH ST STE 300

City: DENVER State: CO Zip: 80202

6. Contact Name: Hannah Knopping Phone: (303)357-6412 Fax: (303)357-7315

Email: hknopping@anteroresources.com

7. Well Name: Frei Well Number: A19

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

9. Proposed Total Measured Depth: 7219

WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 7 Twp: 6S Rng: 91W Meridian: 6

Latitude: 39.535921 Longitude: -107.603332

Footage at Surface: 520 FNL/FSL FSL 899 FEL/FWL FWL

11. Field Name: Kokopelli Field Number: 47525

12. Ground Elevation: 5592 13. County: GARFIELD

14. GPS Data:

Date of Measurement: 05/10/2010 PDOP Reading: 2.4 Instrument Operator's Name: Scott Aibner

15. If well is ☒ Directional ☐ Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL 1664 FSL 578 FEL FEL Bottom Hole: FNL/FSL 1664 FSL 578 FEL FEL
Sec: 12 Twp: 6S Rng: 92W Sec: 12 Twp: 6S Rng: 92W

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: 540 ft

18. Distance to nearest property line: 331 ft 19. Distance to nearest well permitted/completed in the same formation: 361 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.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| Iles | ILES | 513, 523-6 | 320 | E2 |
| Williams Fork | WMFK | 513, 523-6 | 320 | E2 |

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):
See attached lease map.

25. Distance to Nearest Mineral Lease Line: 25 ft 26. Total Acres in Lease: 5

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: Onsite if meet table 910

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 | 16 | 55# | 60 | 177 | 60 | 0 |
| SURF | 12+1/4 | 8+5/8 | 24/32# | 1,000 | 416 | 1,000 | 0 |
| 1ST | 7+7/8 | 4+1/2 | 11.6# | 7,219 | 742 | 7,219 | 900 |

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

33. Comments First String/Production TOC will be >500 feet above Top of Gas.
#24-The well distance given is to a lease line within the drilling and spacing unit. BHL complies with spacing order with respect to distance to unit boundary. The Unit Configuration is Section 12-T6S-R92W: E/2 (~320-acre unit).

34. Location ID: 417777

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: Hannah Knopping

Title: Permit Representative Date: 7/13/2010 Email: hknopping@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: David S. Neslin Director of COGCC Date: 9/29/2010

API NUMBER

05 045 19955 00

Permit Number: _____ Expiration Date: 9/28/2012

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) GARFIELD COUNTY RULISON FIELD NOTICE TO OPERATORS. NOTE: ALL NOTICES SHALL BE GIVEN VIA E-MAIL. SEE ATTACHED NOTICE

3) NEW MAMM CREEK FIELD NOTICE TO OPERATORS APPLIES TO THIS WELL. NOTE: ALL NOTICES SHALL BE GIVEN VIA E-MAIL. SEE ATTACHED NOTICE

4) THE PROPOSED SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1 MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1 MILE IS 380 FEET DEEP.

5) THE BRADENHEAD PRESSURE MONITORING, REQUIRED BY THE MAMM CREEK FIELD NOTICE TO OPERATORS, MUST BE REPORTED TO COGCC ON THE NEXT FOUR WELLS DRILLED ON THIS PAD (WELLS 5 - 8) VIA SUNDRY NOTICE. APPROVAL IS REQUIRED PRIOR TO STARTING TO DRILL THE 9TH PRODUCTION HOLE INTERVAL ON THE PAD. EMAIL SUNDRY NOTICE TO KEVIN.KING@STATE.CO.US

Attachment Check List

| Att Doc Num | Name | Doc Description |
|-------------|------------------------|----------------------|
| 400075496 | FORM 2 SUBMITTED | LF@2506789 400075496 |
| 400075612 | WELL LOCATION PLAT | LF@2506790 400075612 |
| 400075613 | LEASE MAP | LF@2506791 400075613 |
| 400075614 | 30 DAY NOTICE LETTER | LF@2506792 400075614 |
| 400075616 | TOPO MAP | LF@2506793 400075616 |
| 400075628 | SURFACE AGRMT/SURETY | LF@2506794 400075628 |
| 400076257 | DEVIATED DRILLING PLAN | LF@2506796 400076257 |

Total Attach: 7 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|--------------------------|-----------------------------------|----------------------------|
| Engineer | Permit On Hold by engineering. KK | 8/12/2010 9:08:28 AM |

Total: 1 comment(s)

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