

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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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:
400074902
Plugging Bond Surety
20040071

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: A1

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

9. Proposed Total Measured Depth: 6851

WELL LOCATION INFORMATION

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

Latitude: 39.535946 Longitude: -107.603246

Footage at Surface: 529 FNL/FSL FSL 924 FEL/FWL FWL

11. Field Name: Kokopelli Field Number: 47525

12. Ground Elevation: 5607 13. County: GARFIELD

14. GPS Data:

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

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 _____
125 FNL 1914 FWL 125 FNL 1914 FWL
Sec: 18 Twp: 6S Rng: 91W Sec: 18 Twp: 6S Rng: 91W

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: 554 ft

18. Distance to nearest property line: 311 ft 19. Distance to nearest well permitted/completed in the same formation: 328 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 | 160 | Part of W2 |
| Williams Fork | WMFK | 513, 523-6 | 160 | Part of W2 |

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):
See attached lease map.

25. Distance to Nearest Mineral Lease Line: 125 ft 26. Total Acres in Lease: 40

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# | 6,851 | 699 | 6,851 | 900 |

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

33. Comments Spacing unit configuration for Section 18-T6S-R91W- Part of W/2, described as NENW, Lots 1-3 (~160.9 acre unit) First String/Production TOC will be >500 feet above Top of Gas.
#24-The well distance given is to a lease line which in this case is also the unit boundary line. BHL complies with spacing order with respect to distance to unit boundary.

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 19958 00 | Permit Number: _____ | Expiration Date: <u>9/28/2012</u> |
|--------------------------------------|----------------------|-----------------------------------|

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 |
|-------------|------------------------|----------------------|
| 400074902 | FORM 2 SUBMITTED | LF@2506721 400074902 |
| 400075525 | WELL LOCATION PLAT | LF@2506722 400075525 |
| 400075527 | LEASE MAP | LF@2506723 400075527 |
| 400075528 | 30 DAY NOTICE LETTER | LF@2506724 400075528 |
| 400075529 | TOPO MAP | LF@2506725 400075529 |
| 400075530 | SURFACE AGRMT/SURETY | LF@2506726 400075530 |
| 400075904 | DEVIATED DRILLING PLAN | LF@2506727 400075904 |

Total Attach: 7 Files

General Comments

| User Group | Comment | Comment Date |
|------------|-----------------------------------|-------------------------|
| Permit | PERMITTING PASSED. | 8/12/2010 9:01:02 AM |
| Engineer | Permit On Hold by engineering. KK | 8/12/2010 9:00:39 AM |

Total: 2 comment(s)

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