

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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Document Number:

400073744

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: A5

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

9. Proposed Total Measured Depth: 6813

WELL LOCATION INFORMATION

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

Latitude: 39.536057 Longitude: -107.603306

Footage at Surface: 569 FNL/FSL FSL 907 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 Aibner

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

Footage at Top of Prod Zone: FNL/FSL 1647 FSL 609 FWL FWL Bottom Hole: FNL/FSL 1647 FSL 609 FWL FWL  
Sec: 7 Twp: 6S Rng: 91W Sec: 7 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: 515 ft

18. Distance to nearest property line: 341 ft 19. Distance to nearest well permitted/completed in the same formation: 329 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	277	Part of W2
Williams Fork	WMFK	513, 523-6	277	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 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: 341 ft 26. Total Acres in Lease: 30

### 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#	6,813	695	6,813	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 drilling and spacing unit configuration is Section 7-T6S-R91W: Part of W/2, described as NESW & Lots 2-6, 9-10 (~277.77 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: 6/30/2010 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. Nesline Director of COGCC Date: 9/29/2010

Permit Number: \_\_\_\_\_ Expiration Date: 9/28/2012

**API NUMBER**

05 045 19953 00

**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
400073744	FORM 2 SUBMITTED	LF@2500528 400073744
400073777	TOPO MAP	LF@2500529 400073777
400073779	30 DAY NOTICE LETTER	LF@2500531 400073779
400073780	SURFACE AGRMT/SURETY	LF@2500532 400073780
400073781	DEVIATED DRILLING PLAN	LF@2500533 400073781
400073801	WELL LOCATION PLAT	LF@2500534 400073801
400073859	LEASE MAP	LF@2500535 400073859

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 10:49:32 AM
Permit	PERMITTING PASSED. Changed distance to nearest well permitted/completed in same formation to 329' per HK.	8/9/2010 3:39:38 PM

Total: 2 comment(s)

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