

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@anteroresouces.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: \_\_\_\_\_ FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_  
569 FSL 907 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 \_\_\_\_\_ FEL/FWL \_\_\_\_\_ Bottom Hole: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_  
1647 FSL 609 FWL 1647 FSL 609 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: 666 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 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: 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	612	6,813	

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: \_\_\_\_\_ 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: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

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

API NUMBER

05

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.

**Attachment Check List**

Att Doc Num	Name	Doc Description
400073777	TOPO MAP	Frei_A_Pad_Topo_Map.pdf
400073779	30 DAY NOTICE LETTER	Frei_A_Pad_Signed_30-Day_Letter.pdf
400073780	SURFACE AGRMT/SURETY	Frei_SUA_-_Signed_and_Redacted_for_Permitting.pdf
400073781	DEVIATED DRILLING PLAN	Frei_A5_Directional plan.pdf
400073801	WELL LOCATION PLAT	Frei_A5_surface_location_plat.pdf
400073859	LEASE MAP	Frei_A_Pad_Lease Map (COGCC).pdf

Total Attach: 6 Files