

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:

400063676

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: Hannah Knopping Phone: (303)357-6412 Fax: (303)357-7315Email: hknopping@anteroresources.com7. Well Name: Frei Well Number: A21

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

9. Proposed Total Measured Depth: 6759

WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 7 Twp: 6S Rng: 91W Meridian: 6Latitude: 39.535980 Longitude: -107.603240
 Footage at Surface: 541 FNL/FSL 926 FEL/FWL FWL
 FSL
11. Field Name: Kokopelli Field Number: 4752512. 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. Aibner15. If well is ☒ Directional ☐ Horizontal (highly deviated) **submit deviated drilling plan.**
 Footage at Top of Prod Zone: FNL/FSL 972 FSL 621 FWL 972 FSL 621 FWL
 Bottom Hole: FNL/FSL 972 FSL 621 FWL
 Sec: 7 Twp: 6S Rng: 91W Sec: 7 Twp: 6S Rng: 91W
16. Is location in a high density area? (Rule 603b)? ☐ Yes ☒ No17. Distance to the nearest building, public road, above ground utility or railroad: 535 ft18. Distance to nearest property line: 313 ft 19. Distance to nearest well permitted/completed in the same formation: 343 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 W/2
Williams Fork	WMFK	513,523-6	277	Part of W/2

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):
A large portion of the SW/4SW/4 of Section 7-T6S-R91W and a small portion of the S/2SE/4 of Section 12-T6S-R92W

25. Distance to Nearest Mineral Lease Line: _____ 65 ft _____ 26. Total Acres in Lease: _____ 35 _____

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

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	11.7#	6,759	751	6,759	

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. Unit Configuration=Section 7-T6S-R91W: Part of W/2, described as NESW & Lots 2-6, 9-10. Please note that this well is taking the bottom hole location of the currently permitted McLin B1 well (API 045-19378). A sundry notice is forthcoming for the McLin B1 well in order to amend its bottom hole location.

34. Location ID: _____

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: _____

API NUMBER

05

Permit Number: _____ Expiration Date: _____

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
400063818	DEVIATED DRILLING PLAN	ANTERO FREI A21 P01.pdf
400063820	WELL LOCATION PLAT	Frei A21 Surface location plat.pdf
400063821	30 DAY NOTICE LETTER	Frei A Pad_Signed 30-Day Letter.pdf
400063822	TOPO MAP	Frei A Pad_Topo Map.pdf
400063823	SURFACE AGRMT/SURETY	Frei SUA - Signed and Redacted for Permitting.pdf

Total Attach: 5 Files