



**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:

400156876

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: McPherson Well Number: A6

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

9. Proposed Total Measured Depth: 7642

**WELL LOCATION INFORMATION**

10. QtrQtr: NENW Sec: 16 Twp: 6S Rng: 92W Meridian: 6  
Latitude: 39.531111 Longitude: -107.675826

Footage at Surface: 1044 feet FNL/FSL 1526 feet FEL/FWL  
FNL FWL

11. Field Name: Mamm Creek Field Number: 52500

12. Ground Elevation: 5448 13. County: GARFIELD

**14. GPS Data:**

Date of Measurement: 01/04/2011 PDOP Reading: 2.5 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 1472 FNL 1871 FWL 1472 FNL 1871 FWL  
Bottom Hole: FNL/FSL 1472 FNL 1871 FWL  
Sec: 16 Twp: 6S Rng: 92W Sec: 16 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: 700 ft

18. Distance to nearest property line: 210 ft 19. Distance to nearest well permitted/completed in the same formation: 375 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	191-34	160	NW/4
Williams Fork	WMFK	191-34	160	NW/4

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):  
Section 16, T6S, R92W: SENW

25. Distance to Nearest Mineral Lease Line: \_\_\_\_\_ 172 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 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)? ☐ Yes ☐ No

31. Mud disposal: ☒ Offsite ☐ Onsite

Method: ☐ Land Farming ☐ Land Spreading ☒ Disposal Facility Other: Onsite if app(see comments)

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	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	24	16	55#	0	60	177	60	0
SURF	12+1/4	8+5/8	24/32#	0	1,000	416	1,000	0
1ST	7+7/8	4+1/2	11.6#	0	7,642	356	7,642	

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

33. Comments I certify that conditions from the last approved permit are the same except updated SHL and casing/cementing program has been updated. There have been no other changes to land use, well construction or the lease. This Refile Form 2 does not require a Form 2A because the pad has been constructed, a closed loop system is being used so no pits need to be constructed, the refilled well will not require any expansion / additional surface disturbance of the pad. The location is not in a wildlife restricted surface occupancy area (RSO); consultation with CDOW is not required and the location does not require a variance from any of the rules listed in Rule 306.d.(1).(A). (ii).; consultation with CDPHE is not required. Please note, however, that a Form 2A has been filed per Rule 303d. (1) in conjunction with a new well being added to this pad (the McPherson A10). #31 Mud Disposal: Antero will bury onsite if disposal meets Table 910 and if there is a provision in SUA which allows for such operation. TOP OF CEMENT OF 1ST STRING/PRODUCTION CASING WILL BE >500 FEET ABOVE TOP OF GAS.

34. Location ID: 335539

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: 4/28/2011 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.

*David G. Neslin*

## API NUMBER

05 045 17067 00

Permit Number: \_\_\_\_\_

Expiration Date: 5/30/2013

**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) COMPLIANCE WITH THE NOTICE TO OPERATORS DRILLING WELLS IN THE BUZZARD, MAMM CREEK, AND RULISON FIELDS, GARFIELD COUNTY AND MESA COUNTY – PROCEDURES AND SUBMITTAL REQUIREMENTS FOR COMPLIANCE WITH COGCC ORDER NOS. 1-107, 139-56, 191-22, AND 369-2 (JULY 8, 2010) -- IS REQUIRED. SEE ATTACHED NOTICE.

5) 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 300 FEET DEEP.

**Attachment Check List**

Att Doc Num	Name
400156876	FORM 2 SUBMITTED
400159760	WELL LOCATION PLAT
400159761	30 DAY NOTICE LETTER
400159762	DEVIATED DRILLING PLAN

Total Attach: 4 Files

**General Comments****User Group****Comment****Comment Date**

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Total: 0 comment(s)

**BMP****Type****Comment**

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Total: 0 comment(s)