


<b>FORM</b> <b>2</b> Rev 12/05	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DE</td> <td style="width: 25%;">ET</td> <td style="width: 25%;">OE</td> <td style="width: 25%;">ES</td> </tr> </table>	DE	ET	OE	ES
DE	ET	OE	ES				
<b>APPLICATION FOR PERMIT TO:</b>			Document Number: <div style="text-align: center;">400156877</div> Plugging Bond Surety <div style="text-align: center;">20040071</div>				
1. <input checked="" type="checkbox"/> <b>Drill,</b> <input type="checkbox"/> Deepen, <input type="checkbox"/> Re-enter, <input type="checkbox"/> Recomplete and Operate							
2. TYPE OF WELL OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> COALBED <input type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/> COMMINGLE ZONE <input checked="" type="checkbox"/>		Refiling <input checked="" type="checkbox"/> Sidetrack <input type="checkbox"/>					
3. Name of Operator: <u>ANTERO RESOURCES PICEANCE CORPORATION</u> 4. COGCC Operator Number: <u>10079</u>							
5. Address: <u>1625 17TH ST STE 300</u> City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>							
6. Contact Name: <u>Hannah Knopping</u> Phone: <u>(303)357-6412</u> Fax: <u>(303)357-7315</u> Email: <u>hknopping@anteroresources.com</u>							
7. Well Name: <u>McPherson</u> Well Number: <u>A7</u>							
8. Unit Name (if appl): _____    Unit Number: _____							
9. Proposed Total Measured Depth: <u>7948</u>							
<b>WELL LOCATION INFORMATION</b>							
10. QtrQtr: <u>NENW</u> Sec: <u>16</u> Twp: <u>6S</u> Rng: <u>92W</u> Meridian: <u>6</u> Latitude: <u>39.531112</u> Longitude: <u>-107.675719</u>							
Footage at Surface: <u>1043</u> feet    FNL/FSL <u>FNL</u> 1556 feet    FEL/FWL <u>FWL</u>							
11. Field Name: <u>Mamm Creek</u> Field Number: <u>52500</u>							
12. Ground Elevation: <u>5448</u> 13. County: <u>GARFIELD</u>							
14. GPS Data: Date of Measurement: <u>01/04/2011</u> PDOP Reading: <u>2.5</u> Instrument Operator's Name: <u>Scott E. Aibner</u>							
15. If well is <input checked="" type="checkbox"/> Directional <input type="checkbox"/> Horizontal (highly deviated) <b>submit deviated drilling plan.</b> Footage at Top of Prod Zone:    FNL/FSL    FEL/FWL    Bottom Hole:    FNL/FSL    FEL/FWL <div style="display: flex; justify-content: space-around;"> <span><u>263</u>    <u>FNL</u>    <u>2388</u>    <u>FEL</u></span> <span><u>263</u>    <u>FNL</u>    <u>2388</u>    <u>FEL</u></span> </div> Sec: <u>16</u> Twp: <u>6S</u> Rng: <u>92W</u> Sec: <u>16</u> Twp: <u>6S</u> Rng: <u>92W</u>							
16. Is location in a high density area? (Rule 603b)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
17. Distance to the nearest building, public road, above ground utility or railroad: <u>700 ft</u>							
18. Distance to nearest property line: <u>240 ft</u> 19. Distance to nearest well permitted/completed in the same formation: <u>491 ft</u>							
<b>20. LEASE, SPACING AND POOLING INFORMATION</b>							
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)			
Iles	ILES	191-25					
Williams Fork	WMFK	191-17					

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

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: Portions of the NENW and E/2NWNE (See Plat #4 or lease map previously submitted)

25. Distance to Nearest Mineral Lease Line: \_\_\_\_\_ 263 ft 26. Total Acres in Lease: \_\_\_\_\_ 56

**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)

**If 28, 29, or 30 are "Yes" a pit permit may be required.**

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	7,948	356	7,948	

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 BHL 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 that is 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

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved. *Daniel S. Neslin*

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: 5/31/2011

**API NUMBER**

05 045 17072 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
1635642	SURFACE AGRMT/SURETY
400156877	FORM 2 SUBMITTED
400159763	DEVIATED DRILLING PLAN
400159764	30 DAY NOTICE LETTER
400159765	WELL LOCATION PLAT

Total Attach: 5 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	From Opr-Hanna Knopping: Can you make the following corrections to the pending/"in process" McPherson A Pad Form 2A and associated Form 2's described below concerning mineral ownership? I was originally told by the Land Department that the surface owners were also mineral owners but they just advised that they misspoke. Therefore that changes a couple things on the Form 2. McPherson A7 Form 2 (Doc# 400156877) #23: Please check "No"; #23a: Leave Blank; 23b: Check "Surface Owners Agreement Attached. Corrected and attached. sf	5/10/2011 8:51:08 AM

Total: 1 comment(s)

**BMP**

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)