

FORM

2

Rev
12/05

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400291581

Date Received:

06/26/2012

PluggingBond SuretyID

20040071

APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

2. TYPE OF WELL

OIL ☐ GAS ☒ COALBED ☐ OTHER _____
 SINGLE ZONE ☐ MULTIPLE ☒ COMMINGLE ☒

Refiling ☐Sidetrack ☐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: Shauna Redican Phone: (303)357-6820 Fax: (303)357-7315Email: sredican@anteroresources.com7. Well Name: Gentry Well Number: B20

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

9. Proposed Total Measured Depth: 8481

WELL LOCATION INFORMATION

10. QtrQtr: SENW Sec: 17 Twp: 6S Rng: 92W Meridian: 6Latitude: 39.528449 Longitude: -107.694224

Footage at Surface: 1977 feet FNL 1625 feet FWL
 FNL/FSL FEL/FWL

11. Field Name: Mamm Creek Field Number: 5250012. Ground Elevation: 5625 13. County: GARFIELD

14. GPS Data:

Date of Measurement: 02/21/2012 PDOP Reading: 1.2 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 FEL/FWL Bottom Hole: FNL/FSL FEL/FWL
712 FNL 217 FWL 712 FNL 217 FWL
 Sec: 17 Twp: 6S Rng: 92W Sec: 17 Twp: 6S Rng: 92W

16. Is location in a high density area? (Rule 603b)? ☐ Yes ☒ No17. Distance to the nearest building, public road, above ground utility or railroad: 642 ft18. Distance to nearest property line: 179 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 188 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	191-25	320	N2
Williams Fork	WMFK	191-24	320	N2

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: _____22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian23. 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 ☐ No23b. 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):

T6S, R92W, Section 17 - W/2NWNW and a portion of the E/2NWNW. T6S, R92W, Section 8 - SWSWSW and portions of the E/2SW and the N/2SW. See attached lease map

25. Distance to Nearest Mineral Lease Line: 217 ft

26. Total Acres in Lease: 57

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

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

Method: ☐ Land Farming ☐ Land Spreading ☒ Disposal Facility Other: Onsite if app (See

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	439	1,000	0
1ST	7+7/8	4+1/2	11.6#	0	8,481	1,446	8,481	

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

33. Comments A Form 2A to add 6 additional wells to this pad location was submitted on 6/7/2012. 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. #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: 335549

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: Shauna Redican

Title: Permit Representative Date: 6/26/2012 Email: sredican@anteroresources.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 7/26/2012

API NUMBER

05 045 21651 00

Permit Number: _____ Expiration Date: 7/25/2014

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) THE PROPOSED SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1 MILE IS 265 FEET DEEP.

2) CEMENT TOP ON PRODUCTION CASING MUST BE AT LEAST 200' ABOVE THE TOP OF THE MESA VERDE

Attachment Check List

Att Doc Num	Name
400291581	FORM 2 SUBMITTED
400291601	DIRECTIONAL DATA
400291602	WELL LOCATION PLAT
400291603	DEVIATED DRILLING PLAN
400291604	LEASE MAP
400294758	30 DAY NOTICE LETTER

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comments. Final Review--passed	7/19/2012 3:05:40 PM
Permit	Changed #36 to "YES", corrected unit config., added related 2A	6/29/2012 12:00:47 PM
LGD	Passed DB	6/27/2012 8:44:40 AM

Total: 3 comment(s)

BMP

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

Total: 0 comment(s)