

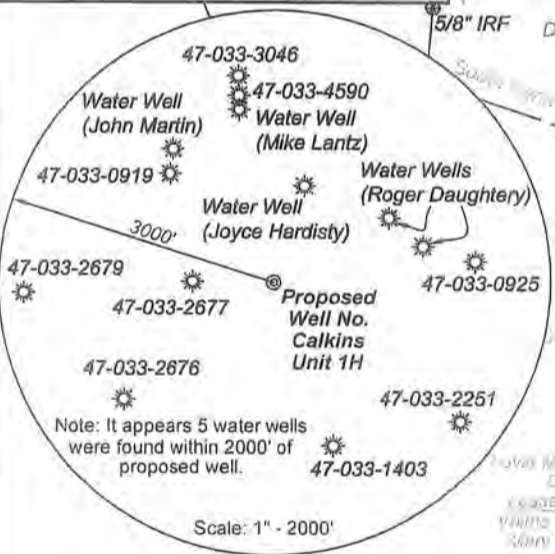
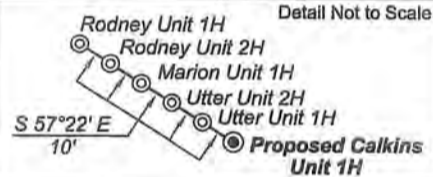
Antero Resources
Well No. Calkins Unit 1H
Antero Resources
Appalachian Corporation



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny
Dwayne D. Matheny, P.S. 2070

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Calkins Unit 1H Top Hole coordinates are
 N: 255,552.56' Latitude: 39°11'50.11"
 E: 1,714,676.92' Longitude: 80°30'24.32"
 Bottom Hole coordinates are
 N: 263,735.25' Latitude: 39°13'10.57"
 E: 1,710,942.19' Longitude: 80°31'12.94"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,338,792.296m N: 4,341,266.199m
 E: 542,607.940m E: 541,428.591m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.



Well Location References
 Scale: 1" = 200'

	Bearing	Dist.
L1	S 88°18' E	909.1'
L2	S 26°34' E	972.1'
L3	S 14°43' E	1099.0'
L4	N 63°44' W	852.9'
L5	N 75°20' W	1353.5'

Legend

- ⊙ Proposed gas well
- ⊙ Found corner, as noted
- ⊙ Found Well, as noted
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)
- - - Existing Road
- - - Creek or Drain



FILE NO: 198-36-U-12
 DRAWING NO: 198-12 Calkins Unit 1H
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Bridgeport, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

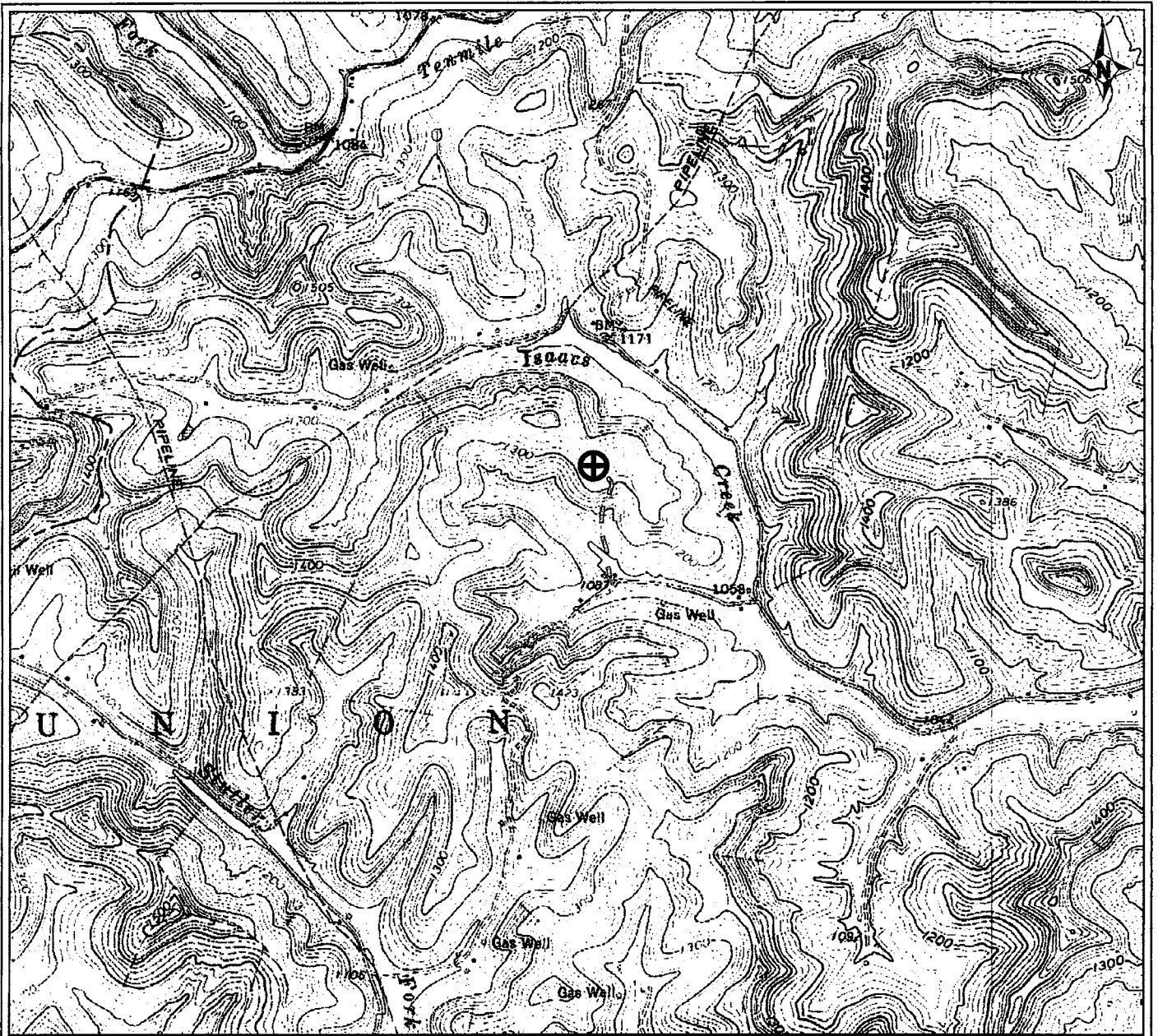
DATE: July 23 2012
 OPERATOR'S WELL NO. Calkins Unit 1H
 API WELL NO
 47 - 033 - 0566946A
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1358' WATERSHED: Isaacs Creek
 DISTRICT: Union
 SURFACE OWNER: Antero Resources Claude E. Bennett, et ux; Kenneth M. & Elaine Calkins, South Penn Oil Co; Wilma Morris, et al; Harold Gaines, et al; Helen Marie Swiger
 OIL & GAS ROYALTY OWNER: Lovie M. & Forman E. Dawson; Velma F. Westfall & Mary W. Westfall; Virgil A. Sinclair, et al; Edna Mae McCall, et al; Violet Lee Rodney
 LEASE #: DAD36726, 21669; 087930, 031808; DAD65592/001; DAD65614/001; DV018997, DV019007; DV019126, DV019149
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7.500' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,400' MD

WELL OPERATOR: Antero Resources Appalachian Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1625 17th Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

10/19/2012

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Antero Resources Corporation

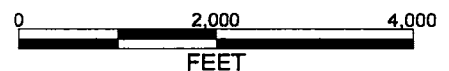
APPALACHIAN BASIN

Quinn Pad

Calkins Unit 1H

Harrison County

REMARKS
QUADRANGLE: BIG ISAAC
WATERSHED: ISAACS CR./W FORK RIVER
DISTRICT: UNION



July 26, 2012 10/19/2012

Office of State Geology

AUG 03 2012

Department of