west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

PERMIT MODIFICATION APPROVAL

March 31, 2014

ANTERO RESOURCES CORPORATION
1625 17TH STREET, SUITE 300
DENVER, CO 80202

Re: Permit Modification Approval for API Number 1706420 , Well #: HONEY UNIT 1H
Moved Lateral

Oil and Gas Operator:
The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

for

Gene Smith
Regulatory/Compliance Manager
Office of Oil and Gas

ANTERO
RESOURCES

Antero Resources
1625 17th Street
Denver, Colorado 80202
Office 303.357.7310
Fax 303.357.7315

January 28, 2014

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Ms. Laura Cooper
601 57th Street
Charleston, WV 25304

Ms. Laura Cooper:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for two approved wells on the Snake Run Pad. We are requesting to move the horizontal lateral which will change the bottom hole location of the Dufflemeyer Unit 2H (API# 47-017-06419) and Honey Unit 1H (API# 47-017-06420).

Attached you will find the following documents:

- REVISED Form WW-6A1, which shows the leases we will be drilling into
- REVISED Mylar Plat, which shows the new bottom hole location

If you have any questions please feel free to contact me at (303) 357-7323.

Thank you in advance for your consideration.

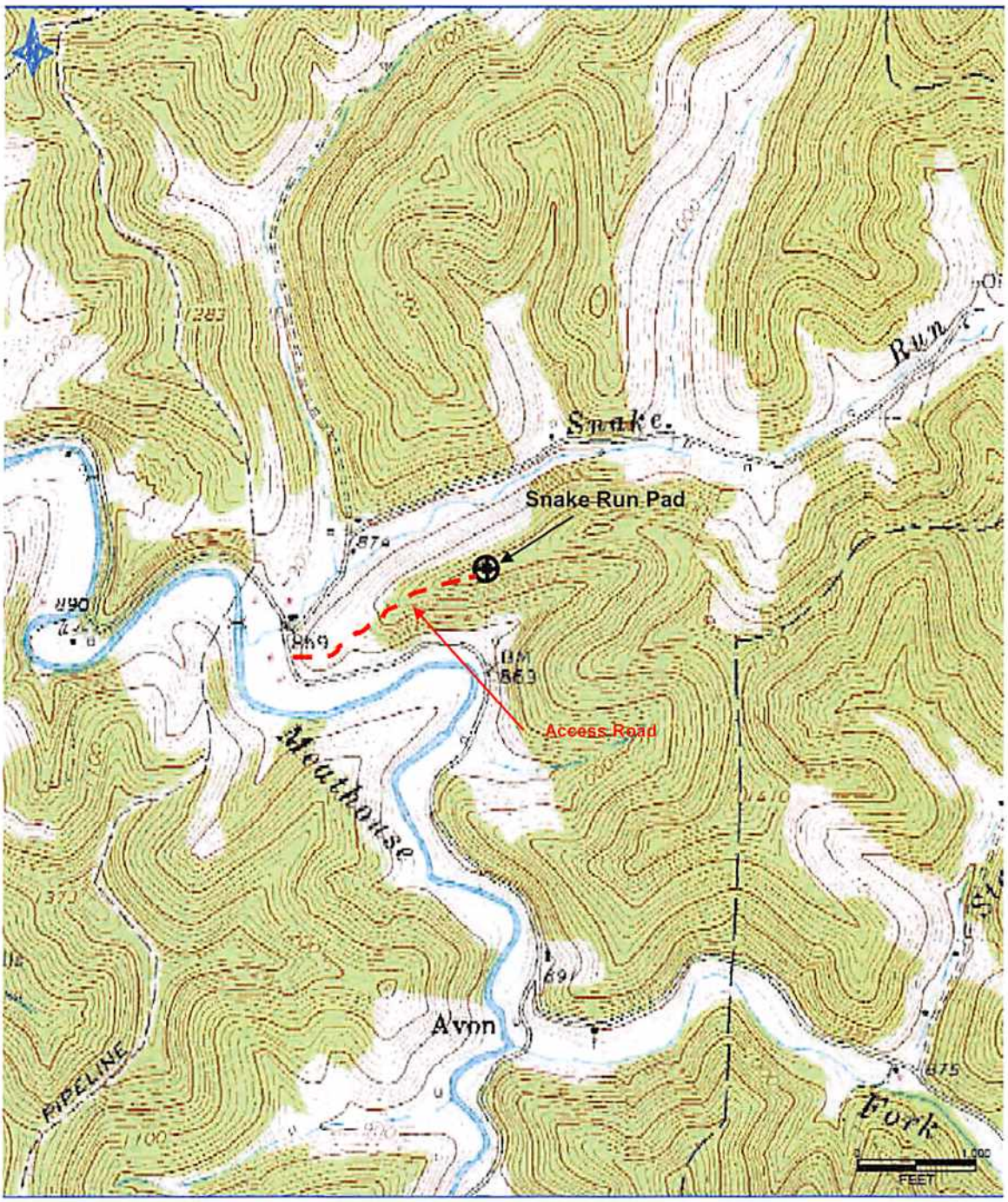
Sincerely,

Ashlie Mihalcin
Permit Representative
Antero Resources Corporation

Enclosures

Received
JAN 31 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

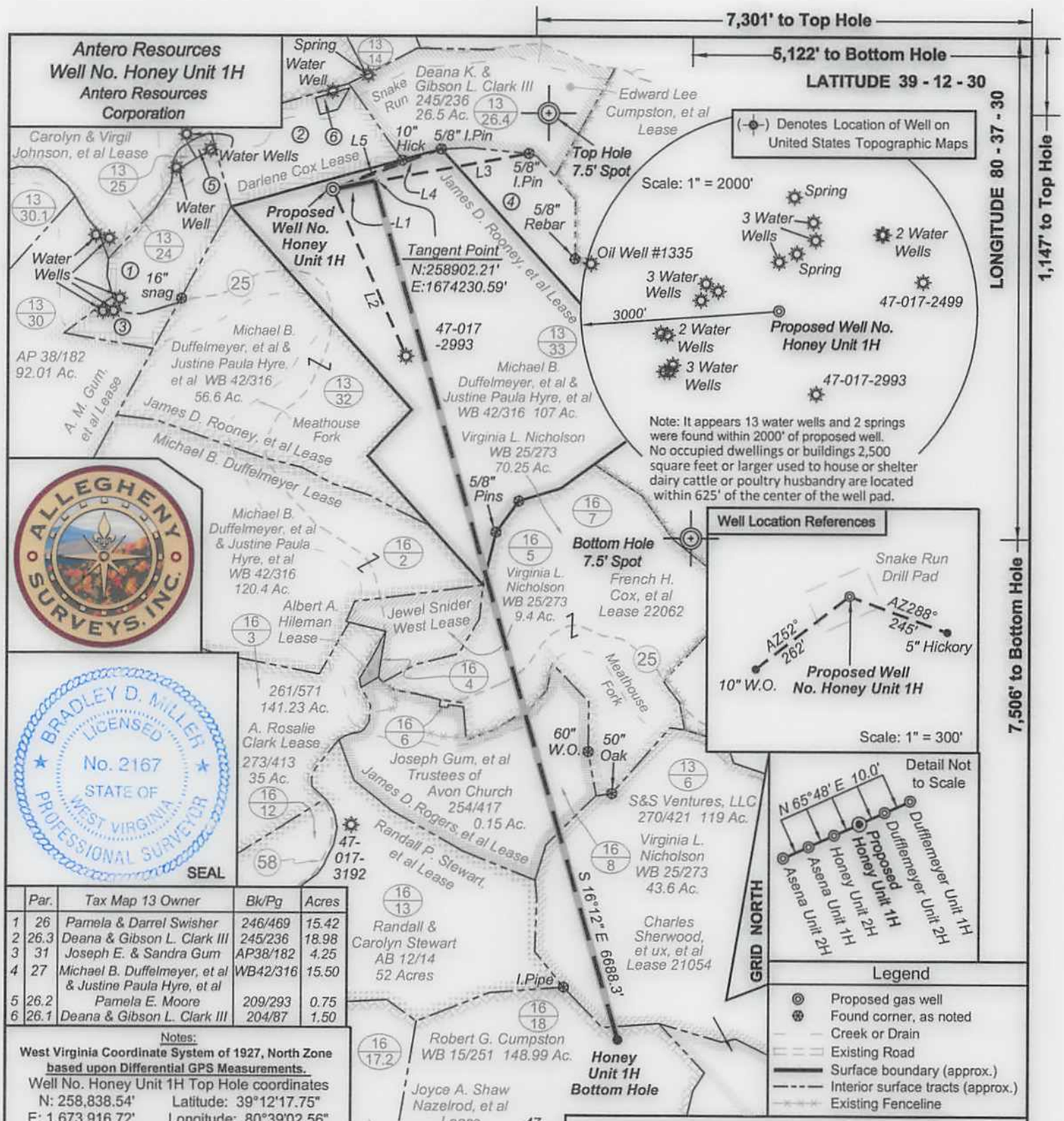
4701706420



Antero Resources Corporation
Appalachian Basin
Honey Unit 1H
Doddridge County

Quadrangle: New Milton
Watershed: Meathouse Fork
District: New Milton
Date: 11-1-2013

Received
NOV 22 2013
Office of Oil and Gas
WV Dept. of Environmental Protection



	Par.	Tax Map 13 Owner	Bk/Pg	Acres
1	26	Pamela & Darrel Swisher	246/469	15.42
2	26.3	Deana & Gibson L. Clark III	245/236	18.98
3	31	Joseph E. & Sandra Gum	AP38/182	4.25
4	27	Michael B. Duffelmeyer, et al & Justine Paula Hyre, et al	WB42/316	15.50
5	26.2	Pamela E. Moore	209/293	0.75
6	26.1	Deana & Gibson L. Clark III	204/87	1.50

Notes:

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Well No. Honey Unit 1H Top Hole coordinates
N: 258,838.54' Latitude: 39°12'17.75"
E: 1,673,916.72' Longitude: 80°39'02.56"

Bottom Hole coordinates
N: 252,479.43' Latitude: 39°11'15.18"
E: 1,676,096.36' Longitude: 80°38'33.84"

UTM Zone 17, NAD 1983

Top Hole Coordinates: N: 4,339,586.233m E: 530,173.484m
Bottom Hole Coordinates: N: 4,337,660.021m E: 530,869.824m

Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Line	Bearing	Dist.
L1	N 78°32' E	320.3'
L2	N 24°09' W	1367.9'
L3	S 79°34' W	1507.3'
L4	S 69°35' W	872.7'
L5	S 67°24' W	570.1'

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 rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167

FILE NO: 69-30-NM-13
DRAWING NO: 69-13 Honey 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: January 22 2014
OPERATOR'S WELL NO. Honey Unit 1H

API WELL NO MOD
47 - 017 - 06420 H6A
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1081' WATERSHED: Meathouse Fork QUADRANGLE: New Milton
DISTRICT: New Milton COUNTY: Doddridge
SURFACE OWNER: Michael B. Duffelmeyer, et al & Justine Paula Hyre, et al; James D. Rogers, et al; Charles Sherwood, et ux, et al
ROYALTY OWNER: Joyce A. Shaw Nazelrod, et al; James D. Rooney, et al; French H. Cox, et al LEASE NO: 21054 ACREAGE: 107 107.25; 22062 ACREAGE: 120; 384; 70.25; 40
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☒ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Modification - BHL
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,400' TVD 14,500' MD

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