Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR JAMES ZEHRINGER, DIRECTOR

Richard J. Simmers, Chief
Division of Oil and Gas Resources Management
2045 Morse Road – Bldg. F-2
Columbus, OH 43229-6693
Phone: (614) 265-6922 Fax: (614) 265-6910

ORDER BY THE CHIEF

January 11, 2017

ORDER NO. 2017-14

TO: Antero Resources Corporation
1615 Wynkoop Street
Denver, CO 80202

RE: Application for Unitization
McChesney Unit
Belmont County, Ohio

SUBJECT: Order for Unit Operations of the Utica/Point Pleasant Formations

Pursuant to Ohio Revised Code ("R.C.") § 1509.28, the Chief of the Division of Oil and Gas Resources Management ("Chief" or "Division") makes the following Findings and issues the following Order with respect to Antero Resources Corporation's ("Antero") Application for Unit Operations for the McChesney Unit:

DEFINITIONS:

As used in this order:

1) "Person" has the same meaning as in R. C. § 1509.01.

2) "Application" means the application of Antero for Unit Operation of the McChesney Unit filed July 18, 2016, and includes all updates, amendments, and supplements to it.

3) "Royalty interest owner" means a person or the estate of a person, other than a working interest owner, who owns the right to or interest in any portion of the oil and/or gas, or proceeds from the sale thereof, from a tract.

4) "Working interest" means an interest in oil and/or gas in the unit area by virtue of a lease, operating agreement, fee title, or otherwise, including a carried interest, the owner of which is obligated to pay, either in cash or out of production or otherwise a portion of the unit expense.

5) "Working interest owner" means a person or the estate of a person who owns an interest in oil and/or gas in the unit area by virtue of a lease, operating agreement, fee title, or

otherwise, including a carried interest, the owner of which is obligated to pay, either in cash or out of production or otherwise a portion of the unit expense. "Working interest owner" does not include an unleased mineral owner.

6) "Unleased mineral owner" means a royalty interest owner who owns oil and gas rights free of a lease or other instrument conveying all or any portion of the working interest in such rights to another. There were no unleased mineral owners.

7) "Consenting working interest owner" means any working interest owner who enters into an agreement with Antero pertaining to the operation of the McChesney Unit.

8) "Non-consenting working interest owner" means a working interest owner who does not enter into an agreement with Antero pertaining to the operation of the McChesney Unit.

9) "Gas" has the same meaning as in R.C. § 1509.01.

10) "Oil" has the same meaning as in R.C. § 1509.01.

11) "Unit Area" means all of the lands, oil and gas leases and/or oil and gas interests of twenty-five (25) tracts as shown in Exhibit A totaling 455.047 acres located in Malaga and Somerset Townships, Monroe and Belmont Counties, Ohio as shown in Exhibit B.

12) "Unit Participation" means the ratio of the surface acreage of a specific tract in the unit area to the total surface acreage of the unit area as that total surface acreage is specified in paragraph one of the Plan for Unit Operations of this order.

BACKGROUND:

1) Antero filed the application pursuant to R. C. § 1509.28 to operate as a unit the Utica/Point Pleasant Formations at an approximate true vertical depth located from fifty (50) feet above the top of the Utica Shale to fifty (50) feet below the base of the Point Pleasant Formation. The application includes a Unit Agreement, Model Form Operating Agreement, and relevant exhibits. The application also includes the pre-filed testimony of the following Antero employees: Rebekah Parks, geologist; Robert Petersen, reservoir engineer; and Spencer Booth, landman.

2) Pursuant to R.C. § 1509.28, the Division held a hearing on November 16, 2016, in Columbus, Ohio at the Ohio Department of Natural Resources ("ODNR"), to consider the need for the operation as a unit of an entire pool or part thereof. At the hearing, Antero employee Mr. Petersen confirmed his pre-filed testimony and answered questions posed by Division staff members. Ms. Parks and Mr. Booth were unable to attend the hearing, so Mr. Jason Eliassen, geologic supervisor, confirmed Ms. Parks pre-filed testimony and Mr. Jordan Brandenburg, senior landman, confirmed Mr. Booth's pre-filed testimony. Both Mr. Eliassen and Mr. Brandenburg answered questions posed by Division staff members.

FINDINGS:

1) Based on the application and testimony by Antero's employees, the Chief finds that Antero has established that it is the "owner," as that term is defined in R.C. § 1509.01(K), of greater than sixty-five percent (65%) of the land area overlying the pool in the McChesney Unit as required by R.C. § 1509.28(A).

2) Based on the application and testimony by Antero's employees, the Chief finds that the operation of the McChesney Unit is reasonably necessary to increase substantially the ultimate recovery of oil and gas.

3) Based on the application and testimony by Antero's employees, the Chief finds the value of the estimated additional recovery of oil or gas from the McChesney Unit exceeds the estimated additional cost incident to conducting the operation of the McChesney Unit.

ORDER:

IT IS HEREBY ORDERED:

Pursuant to R.C. § 1509.28, Antero is authorized to conduct operations within the McChesney Unit in accordance with all of the following:

Plan for Unit Operations

1) The unit area is comprised of twenty-five (25) tracts totaling 455.047 acres in Malaga and Somerset Townships, Monroe and Belmont Counties, Ohio, as shown on Exhibit B.

2) Antero proposes to drill two (2) wells from a single pad site in the McChesney Unit for the purpose of recovering oil and gas. Drilling operations shall commence in the unit area within twelve (12) months from the date of approval of this Order. In order to achieve the stated goal of substantially increasing the ultimate recovery of oil and gas from the Utica/Point Pleasant Formations within the unit area, Antero shall produce from two (2) wells no later than three (3) years after the date of approval of this order. If Antero fails to drill, complete, and produce at least two (2) wells in the unit area, the Chief may amend or terminate this order. Any additional wells permitted by the Chief for the Utica/Point Pleasant Formations in the unit area are subject to this order.

3) Evidence introduced by Antero at the McChesney Unit hearing establishes that the Utica/Point Pleasant Formation uniformly underlies the unit area. Therefore, the allocated share of production to each tract shall be equal to that tract's unit participation.

4) Except as provided in Paragraph 9(d) of this order, all charges and credits made for investments in wells, tanks, pumps, machinery, materials, and equipment shall be allocated among the working interest owners of each tract based on the unit participation. The

proportionate share of the expenses attributable to tracts of the unleased mineral owners shall be allocated to Antero and the working interest owners.

5) All unit operation expenses shall be charged to, and paid by, Antero and working interest owners in amounts based on the unit participation plus their proportionate share of the expenses attributable to the tracts of unleased mineral owners. All unit operation expenses concerning wells and operating equipment shall be just and reasonable.

6) If necessary, Antero and the consenting working interest owners shall carry, or otherwise finance, any non-consenting working interest owners who are unable to meet their financial obligations in connection with the unit operations. Antero and all other consenting working interest owners' reasonable interest charge for carrying or financing the non-consenting working interest owners shall be determined by the terms of Antero's Unit Agreement and Model Form Operating Agreement for the McChesney Unit. Once a specific cost is charged to the initial well, that same cost cannot be charged to subsequent wells in the unit area.

7) Antero shall supervise and conduct all unit operations. Each working interest owner shall have a voting interest equal to its Unit Participation. Approval of unit operations shall be subject to the terms of Antero's Unit Agreement and Model Form Operating Agreement for the McChesney Unit.

8) Unit operations may commence as of 7:00 a.m. on the day following the effective date of this order. Once the initial well is placed into production, operations within the McChesney Unit may continue as long as hydrocarbons are produced from any well in the unit area without a cessation of more than ninety (90) days, unless otherwise approved by the Chief in writing. The McChesney Unit may be terminated if working interest owners owning at least fifty-one percent (51%) of the working interest in the unit area determine that the unit operations are no longer warranted. If the unit operations are so terminated, Antero shall provide written notice of the termination to the Division and to all unleased mineral owners. In the event that termination of unit operations occurs prior to drilling and completing for production of two (2) wells in the McChesney Unit, the Chief may amend this order.

9) The following additional provisions are found to be appropriate:

   a) No activity associated with the drilling, completion, or operation of the McChesney Unit shall be conducted on the surface of any unleased property without the prior written consent of the owner of the surface rights of the unleased property.

   b) Unleased mineral owners shall not incur liability for any personal or property damage associated with any drilling, testing, completing, producing, operating, or plugging activities within the McChesney Unit.

   c) Each unleased mineral owner shall receive a monthly cash payment equal to a one-eighth (1/8) landowner royalty interest calculated on gross proceeds. Allocation of

the one-eighth (1/8) landowner royalty shall be based on the unit participation of each unleased mineral owner's tract. Antero shall make royalty payments to all royalty interest owners at the same time.

d) In addition to the royalty payment, each unleased mineral owner shall receive a monthly cash payment equal to a seven-eighths (7/8) share of the net proceeds from production. Allocation of the seven-eighths (7/8) share shall be based on the unit participation of each unleased mineral owner's tract. After the working interest owners recover a reasonable interest charge equal to 200% of the cost of drilling, testing, completing, and producing the initial well, the working interest owners shall begin making such monthly payments for that well. For each additional well drilled in the unit area, the working interest owners shall begin making monthly payments equal to seven-eighths (7/8) share of net proceeds from production to each unleased mineral owner once the working interest owners have recovered a reasonable interest charge equal to 150% of the cost of drilling, testing, completing, and producing. Once a specific cost is charged to the initial well, that same cost cannot be charged to subsequent wells in the unit area.

e) Nothing in this order prohibits an unleased mineral owner from entering into a lease agreement with Antero pursuant to terms agreeable to both parties. An unleased mineral owner who enters into a lease with Antero after the issuance of this order is no longer an unleased mineral owner under this order as of the effective date of the lease. Antero shall notify the Division upon the execution of a lease agreement with any unleased mineral owner who is subject to this order.

f) Except as provided in Paragraph 9(d) of this order, no expenses shall be paid by an unleased mineral owner for drilling, testing, completing, producing, or operating any well in the unit area. Moreover, unleased mineral owners are not responsible for any costs related to plugging any well in the unit area.

g) If requested in writing by any unleased mineral owner or by any non-consenting working interest owner, or in any manner by the Division, Antero shall provide, not later than thirty (30) days after the request, any of the following:

   i. A monthly statement of all costs incurred, together with the quantity of oil and gas produced, and the amount of proceeds realized from the sale of production during the preceding month; and

   ii. Any authorization for expenditure (AFE) prepared by Antero; and

   iii. A statement of all costs and expenses for purposes of Paragraphs 6 and 9(d) of this order.

h) Antero shall notify the Division of the assignment or transfer of any of its working interest in the McChesney Unit. If Antero assigns or transfers any of its working interest, the assignee or transferee shall comply with this order.

i) Antero shall notify the Division if a tract that is leased by Antero, or any other consenting working interest owner for purposes of operating the McChesney Unit, becomes an unleased tract. If Antero or the consenting working interest owner is unable to enter into lease agreement for the unleased tract, Antero must submit a request to the Division for an amendment of this order, which will include a new hearing before the Chief.

j) Antero shall notify the Division if any consenting working interest owner revokes, rescinds, or otherwise terminates the agreement with Antero pertaining to the operation of the McChesney Unit. Antero shall also notify the Division if any consenting working interest owner assigns or transfers all or part of its working interest in the McChesney Unit.

k) Antero shall notify the Division if any non-consenting working interest owner enters into an agreement with Antero pertaining to the operation of the McChesney Unit.

10) This order is not effective unless and until Antero provides the Chief with final written approval of the unit operations as prescribed in this order by Antero and consenting working interest owners, and also by the royalty interest owners or, with respect to unleased acreage, unleased mineral owners of sixty-five percent (65%) of the acreage to be included in the unit. Upon receipt of this approval, this order shall become effective, and unit operations may commence as set forth above. In the event that Antero fails to provide all required approvals within six (6) months after the issuance date of this order, the order will be deemed revoked, and the Chief shall provide notice of the revocation to Antero and to all persons listed in Exhibit A to this order.

11) In the event that this Chief's Order is appealed, the time periods as specified in this order are tolled pending final determination of the appeal.

12) Within twenty-one (21) days of this order becoming effective, Antero shall file a copy of this order with the Belmont County (Ohio) Recorder's Office, in the records of each of tracts that are subject to this order and referenced in Exhibit B of this order. Antero shall submit a certification of the filing to the Division within fourteen (14) days of filing. The certification shall include a reference to the volume and page number corresponding to each record where the Chief's Order is recorded.

13) The Chief of the Division retains continuing jurisdiction over the McChesney Unit as is consistent with the Chief's powers and duties as established by R.C. Chapter 1509 and Ohio Admin. Code 1501:9. The Chief reserves the right to amend this Order subsequent to the commencement of unit operations within the unit area.

14) Except as specifically set forth in the terms of this order, nothing herein shall be construed as a release or waiver of any private right, obligation, duty, claim, or cause of action.

15) In the event of a conflict between this Chief's Order and Antero's Unit Agreement and Model Form Operating Agreement attached to the application, this Chief's Order shall take precedence.

Jan 11, 2017
Date

Richard J. Simmers
Richard J. Simmers, Chief
Division of Oil and Gas Resources Management

Addressee is hereby notified that this action is final and effective and may be appealed pursuant to Section 1509.36 of the Ohio Revised Code. If the Order is appealed to the Ohio Oil and Gas Commission, the appeal must be in writing and must set forth the Orders complained of and the grounds upon which the appeal is based. Such appeal must be filed with the Oil and Gas Commission, 2045 Morse Road, Building H-3, Columbus, Ohio 43229-6693, within thirty (30) days after receipt of this Order.

In addition, within three (3) days after the appeal is filed with the Oil and Gas Commission, notice of the filing must be submitted to Richard J. Simmers, Chief, Division of Oil and Gas Resources Management, Ohio Department of Natural Resources, 2045 Morse Road, Building F-2, Columbus, Ohio 43229-6693.

Enclosures: Exhibit A
Exhibit B

CERTIFIED MAIL TO:

Name	Address	Certified Tracking
Daryl P. & Patricia M. Amaral	53839 Temperanceville Hwy Barnesville, OH 43713	91 7199 9991 7037 5557 0537
Linda Weiss	52787 Boston Jerusalem, OH 43747	91 7199 9991 7037 5557 0544
LL&B Headwater I, LP	11412 Bee Cave Road, Suite 301 Austin, TX 78738 Attn: Robert Rieck	91 7199 9991 7037 5557 0551
Siltstone Resources, LLC	600 Jefferson Street Houston, TX 77002 Attn: Dennis Hung	91 7199 9991 7037 5557 0568
Hothem Family Properties, LP	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem	91 7199 9991 7037 5557 0575
LL&B Headwater II, LP	11412 Bee Cave Road, Suite 301 Austin, TX 78738 Attn: Robert Rieck	91 7199 9991 7037 5557 0582
Patrick A. McCort, Jr.	54700 Temperanceville Hwy Barnesville, OH 43713	91 7199 9991 7037 5557 0599
William J.Howiler, Jr.	55180 Washington Street Barnesville, OH 43713	91 7199 9991 7037 5557 0605
Michael G. Howiler	56782 Flat Rock Road Extension Barnesville, OH 43713	91 7199 9991 7037 5557 0612
William H. McChesney	268 Richland Drive Avon Lake, OH 44012	91 7199 9991 7037 5557 0629
Donald R. Hayes	32590 Twp Road 821 Barnesville, OH 43713	91 7199 9991 7037 5557 0636
Michael A. Hayes	53101 Temperanceville, Hwy Barnesville, OH 43713	91 7199 9991 7037 5557 0643
Howard J. Hayes	135 E. Walnut Street Barnesville, OH 43713	91 7199 9991 7037 5557 0650
Lawrence V. Hayes	615 Miller Street Caldwell, OH 43724	91 7199 9991 7037 5557 0667

Patricia L. Hayes	330 S. Broadway Street Barnesville, OH 43713	91 7199 9991 7037 5557 0674
John L. Hayes	16451 State Route 37 E Corning, OH 43730	91 7199 9991 7037 5557 0681
Terry Stephen	33626 Harper Road Woodsfield, OH 43793	91 7199 9991 7037 5557 0698
Sandra McCormick	33620 Harper Ridge Road Woodsfield, OH 43793	91 7199 9991 7037 5557 0704
Todd Stephen	35465 Harper Ridge Road Woodsfield, OH 43793	91 7199 9991 7037 5557 0711
Tiree Land, LLC	204 2nd Street NE New Philadelphia, OH 44663 Attn: John A. Gartrell	91 7199 9991 7037 5557 0728
Resource Minerals Headwater I, LP	11412 Bee Cave Road, Suite 301 Austin, TX 78738 Attn: Robert Rieck	91 7199 9991 7037 5557 0735
Sunrise Exploration & Production, LLC	4626 St. Charles Ave. New Orleans, LA 70115 Attn: Brandt Temple	91 7199 9991 7037 5557 0742
Andrew E. & Rachel D. Miller	34104 Harper Ridge Road Woodsfield, OH 43793	91 7199 9991 7037 5557 0759
Daniel & Sarah Gingerich	296 Creek Road Curwentsville, PA, 16833	91 7199 9991 7037 5557 0766
Northwood Energy Corporation Attn: John DiFrangia	941 Chatham Lane, Suite 100 Columbus, OH 43221	91 7199 9991 7037 5557 0773
Elizabeth Simons	9039 Long Road Versaille, OH 45380	91 7199 9991 7037 5557 0780
William R. Didier	7666 Chase Road Versaille, OH 45380	91 7199 9991 7037 5557 0797
Kunk Family Trust Attn: Diane Kunk	400 State Route 47 Russia, OH 45363	91 7199 9991 7037 5557 0803
Gregory D. Russell J. Taylor Airey Ilya Batikov Vorys, Sater, Seymour and Pease LLP	52 East Gay Street P.O. Box 1008 Columbus, OH 43216	91 7199 9991 7037 5557 0810

Spencer Booth	Antero Resources Corporation 1615 Wynkoop Street Denver, CO 80202	91 7199 9991 7037 5557 0827
Antero Resources Corporation Attn: Vice President of Land	1615 Wynkoop Street Denver, CO 80202	91 7199 9991 7037 5557 0834

Exhibit A

All Interest Owners

Tract	Current Mineral Owner	Leased/Fee Yes or No	Current Mineral Owner Interest in Tract	Total Acres in Unit	Current Mineral Owner Acres in Unit	Tract Participation	Antero Working Interest	Antero Unit Participation	Unleased Working Interest	Unleased Unit Participation	Parcel ID	Township	Current Mineral Owner Address
1	Daryl P. & Patricia M. Amaral	Yes	100.000%	3.005	3.005	0.660%	100.000%	0.660%	0.000%	0.000%	37-00584.000	Somerset	851 Franklin Street #5 Wrentham, MA 02093
2	Linda Weiss	Yes	50.000%	37.806	18.903	4.154%	100.000%	4.154%	0.000%	0.000%	37-00482.000	Somerset	52787 Boston Jerusalem, OH 43747
2	LL&B Headwater I, LP	Yes	50.000%		18.903	4.154%	100.000%	4.154%	0.000%	0.000%	37-00482.000	Somerset	11412 Bee Cave Road Suite 301 Austin, TX 78738 Attn: Robert Rieck
3	Siltstone Resources, LLC	Yes	100.000%	28.922	28.922	6.356%	100.000%	6.356%	0.000%	0.000%	37-00617.000	Somerset	600 Jefferson Street Houston, TX 77002 Attn: Dennis Hung
4	Hothem Family Properties, LP	Yes	100.000%	0.011	0.011	0.002%	100.000%	0.002%	0.000%	0.000%	37-00363.000	Somerset	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem
5	LL&B Headwater I, LP	Yes	100.000%	13.453	13.453	2.956%	100.000%	2.956%	0.000%	0.000%	37-00647.002	Somerset	11412 Bee Cave Road Suite 301 Austin, TX 78738 Attn: Robert Rieck
6A	LL&B Headwater I, LP	Yes	50.000%	0.157	0.079	0.017%	100.000%	0.017%	0.000%	0.000%	37-00647.000	Somerset	11412 Bee Cave Road Suite 301 Austin, TX 78738 Attn: Robert Rieck
6A	LL&B Headwater II, LP	Yes	50.000%		0.079	0.017%	100.000%	0.017%	0.000%	0.000%	37-00647.000	Somerset	11412 Bee Cave Road Suite 301 Austin, TX 78738 Attn: Robert Rieck
6B	Patrick A. McCort, Jr.	Yes	100.000%	0.000	0.000	0.000%	100.000%	0.000%	0.000%	0.000%	37-00647.000	Somerset	54700 Temperanceville Hwy Barnesville, OH 43713
7	William J.Howiler, Jr.	Yes	50.000%	3.578	1.789	0.393%	100.000%	0.393%	0.000%	0.000%	37-00647.001	Somerset	55180 Washington Street Barnesville, OH 43713
7	Michael G. Howiler	Yes	50.000%		1.789	0.393%	100.000%	0.393%	0.000%	0.000%	37-00647.001	Somerset	56782 Flat Rock Road Extension Barnesville, OH 43713
8	William J.Howiler, Jr.	Yes	50.000%	42.000	21.000	4.615%	100.000%	4.615%	0.000%	0.000%	37-00375.000	Somerset	55180 Washington Street Barnesville, OH 43713
8	Michael G. Howiler	Yes	50.000%		21.000	4.615%	100.000%	4.615%	0.000%	0.000%	37-00375.000	Somerset	56782 Flat Rock Road Extension Barnesville, OH 43713
9	Hothem Family Properties, LP	Yes	100.000%	70.356	70.356	15.461%	100.000%	15.461%	0.000%	0.000%	37-00365.000	Somerset	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem
10	Donald R. Hayes	Yes	16.6666%		0.067	0.015%	100.000%	0.015%	0.000%	0.000%	37-01196.000	Somerset	32590 Twp Road 821 Barnesville, OH 43713
10	Michael A. Hayes	Yes	16.6666%		0.067	0.015%	100.000%	0.015%	0.000%	0.000%	37-01196.000	Somerset	53101 Temperanceville, Hwy Barnesville, OH 43713

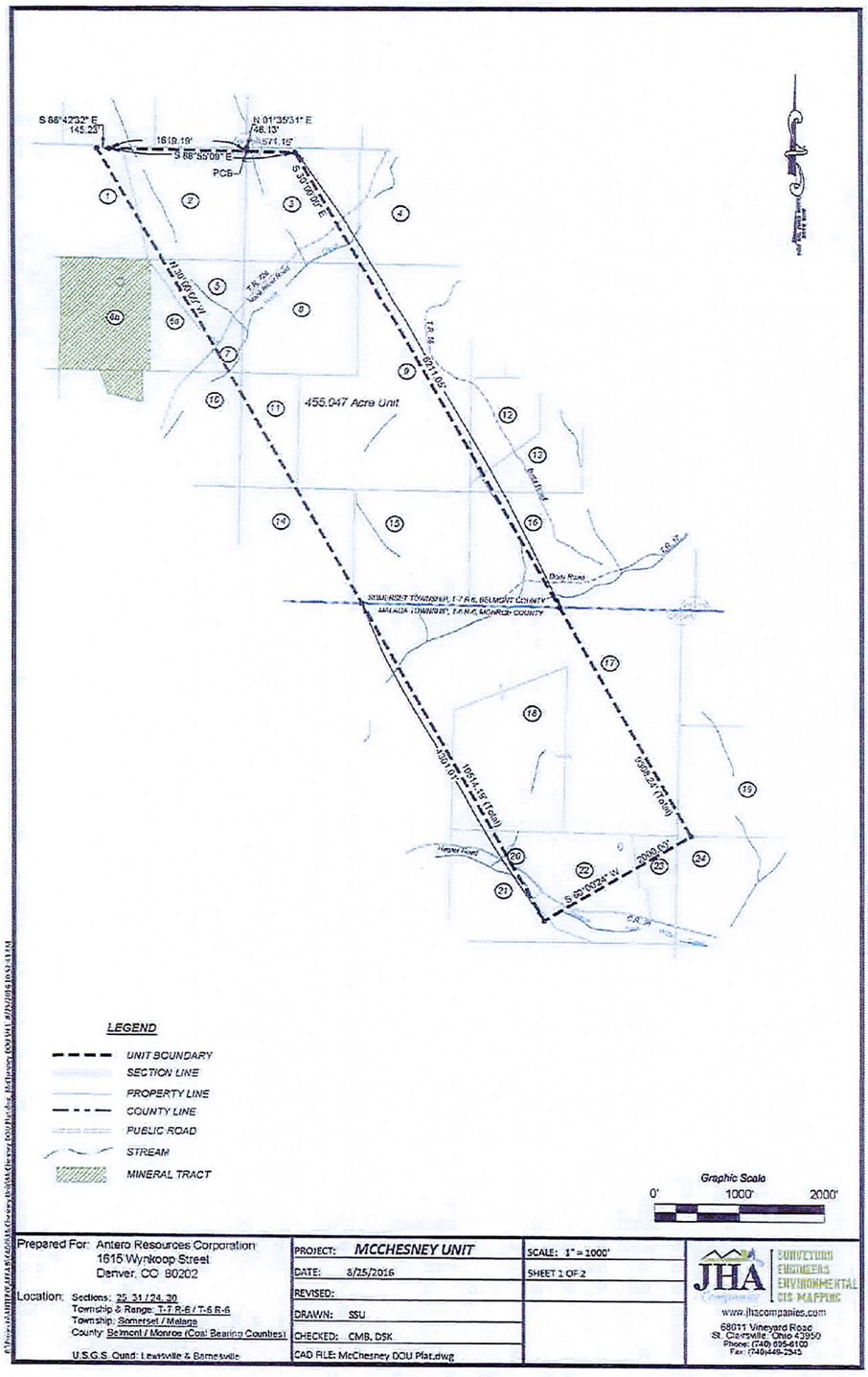
10	Howard H. Hayes	Yes	16.6666%	0.403	0.067	0.015%	100.000%	0.015%	0.000%	0.000%	37-01196.000	Somerset	135 E. Walnut Street Barnesville, OH 43713
10	Lawrence V. Hayes	Yes	16.6666%		0.067	0.015%	100.000%	0.015%	0.000%	0.000%	37-01196.000	Somerset	615 Miller Street Caldwell, OH 43724
10	Patricia L. Hayes	Yes	16.6666%		0.067	0.015%	100.000%	0.015%	0.000%	0.000%	37-01196.000	Somerset	330 S. Broadway Street Barnesville, OH 43713
10	John L. Hayes	Yes	16.6666%		0.067	0.015%	100.000%	0.015%	0.000%	0.000%	37-01196.000	Somerset	16451 State Route 37 E Corning, OH 43730
11	William J.Howiler, Jr.	Yes	50.000%	12.558	6.279	1.380%	100.000%	1.380%	0.000%	0.000%	37-00622.000	Somerset	55180 Washington Street Barnesville, OH 43713
11	Michael G. Howiler	Yes	50.000%		6.279	1.380%	100.000%	1.380%	0.000%	0.000%	37-00622.000	Somerset	56782 Flat Rock Road Extension Barnesville, OH 43713
12	William H. McChesney	Yes	100.000%	0.640	0.640	0.141%	100.000%	0.141%	0.000%	0.000%	37-00289.000	Somerset	268 Richland Drive Avon Lake, OH 44012
13	William H. McChesney	Yes	100.000%	0.826	0.826	0.182%	100.000%	0.182%	0.000%	0.000%	37-00289.001	Somerset	268 Richland Drive Avon Lake, OH 44012
14	Hothem Family Properties, LP	Yes	100.000%	9.165	9.165	2.014%	100.000%	2.014%	0.000%	0.000%	37-00362.000	Somerset	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem
15	Hothem Family Properties, LP	Yes	100.000%	41.638	41.638	9.150%	100.000%	9.150%	0.000%	0.000%	37-00364.000	Somerset	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem
16	Hothem Family Properties, LP	Yes	100.000%	20.691	20.691	4.547%	100.000%	4.547%	0.000%	0.000%	37-00373.000	Somerset	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem
17	Hothem Family Properties, LP	Yes	100.000%	94.701	94.701	20.811%	100.000%	20.811%	0.000%	0.000%	12-007003.0000	Malaga	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem
18	Hothem Family Properties, LP	Yes	100.000%	46.505	46.505	10.220%	100.000%	10.220%	0.000%	0.000%	12-007002.0000	Malaga	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem
19	Hothem Family Properties, LP	Yes	100.000%	0.487	0.487	0.107%	100.000%	0.107%	0.000%	0.000%	12-008006.0000	Malaga	999 East Lake Drive Gainesville, GA 30506-1729 Attn: Arden L. Hothem
20	Terry Stephen	Yes	33.333%	0.813	0.271	0.060%	100.000%	0.060%	0.000%	0.000%	12-007011.0000	Malaga	33626 Harper Road Woodsfield, OH 43793
20	Sandra McCormick	Yes	33.333%		0.271	0.060%	100.000%	0.060%	0.000%	0.000%	12-007011.0000	Malaga	33620 Harper Ridge Road Woodsfield, OH 43793
20	Todd Stephen	Yes	33.333%		0.271	0.060%	100.000%	0.060%	0.000%	0.000%	12-007011.0000	Malaga	35465 Harper Ridge Road Woodsfield, OH 43793
21	Tiree Land, LLC	Yes	50.000%	1.116	0.558	0.123%	100.000%	0.123%	0.000%	0.000%	12-007012.0000	Malaga	204 2nd Street NE New Philadelphia, OH 44663 Attn: John A. Gartrell
21	Resource Minerals Headwater I, LP	Yes	50.000%		0.558	0.123%	100.000%	0.123%	0.000%	0.000%	12-007012.0000	Malaga	11412 Bee Cave Road Suite 301 Austin, TX 78738 Attn: Robert Rieck
22	Sunrise Exploration & Production, LLC	Yes	50.000%		11.538	2.535%	100.000%	2.535%	0.000%	0.000%	12-007013.0000	Malaga	4626 St. Charles Ave. New Orleans, LA 70115 Attn: Brandt Temple

All Interest Owners

22	LL&B Headwater II, LP	Yes	50.000%	23.075	11.538	2.535%	100.000%	2.535%	0.000%	0.000%	12-007013.0000	Malaga	11412 Bee Cave Road Suite 301 Austin, TX 78738 Attn: Robert Rieck
23	Sunrise Exploration & Production, LLC	Yes	50.000%	2.939	1.470	0.323%	100.000%	0.323%	0.000%	0.000%	12-007006.1000	Malaga	4626 St. Charles Ave. New Orleans, LA 70115 Attn: Brandt Temple
23	LL&B Headwater II, LP	Yes	50.000%		1.470	0.323%	100.000%	0.323%	0.000%	0.000%	12-007006.1000	Malaga	11412 Bee Cave Road Suite 301 Austin, TX 78738 Attn: Robert Rieck
24	Andrew E. & Rachel D. Miller	Yes	10.000%	0.202	0.020	0.004%	100.000%	0.004%	0.000%	0.000%	12-008008.0000	Malaga	34104 Harper Ridge Road Woodsfield, OH 43793
24	Daniel & Sarah Gingerich	Yes	90.000%		0.182	0.040%	100.000%	0.040%	0.000%	0.000%	12-008008.0000	Malaga	296 Creek Road Curwensville, PA, 16833
				455.047	455.047	100.000%		100.000%		0.000%			

100.000%

Exhibit B



Prepared For: Antero Resources Corporation 1615 Wynkoop Street Denver, CO 80202	PROJECT: *MCCHESNEY UNIT*	SCALE: 1" = 1000'	JHA SURVEYORS ENGINEERS ENVIRONMENTAL GIS MAPPING
Location: Sections: 25, 31 / 24, 30 Township & Range: T-7 R-6 / T-6 R-6 Township: Somerset / Malaga County: Belmont / Monroe (Coal Bearing Counties)	DATE: 8/25/2016	SHEET 1 OF 2	www.jhacompanies.com 68011 Vineyard Road St. Clairsville, Ohio 43950 Phone: (740) 695-6100 Fax: (740)445-2345
	REVISED:		
	DRAWN: SSU		
	CHECKED: CMB, DSK		
U.S.G.S. Quad: Lewisville & Barnesville	CAD FILE: McChesney DOU Plat.dwg		

PARCELS WITHIN THE MCCHESNEY UNIT
(455.047 Acres)

Map No.	Unit Acreage	Parcel Number	Surface Owner	Deed Volume and Page	Deed Acreage	Calculated Acreage	Mineral Owner Name	Mineral Deed Volume and Page
1	3.005	37-00584.000	Daryl P. & Patricia M. Amaral	O.R. 29, P. 768	58.895	59.770	Same as Surface	
2	37.806	37-00482.000	Linda Weiss	O.R. 469, P. 643	39.888	39.888	Linda Weiss LL&B Headwater I LP	V. 469, P. 643 O.R. 406, P. 39
3	28.922	37-00617.000	David D. Shaulis & Jeffrey Steven Searles	O.R. 550, P. 165	40.400	41.578	Siltstone Resources, LLC	O.R. 409, P. 470
4	0.011	37-00363.000	Hothem Family Properties, LP	V. 789, P. 431	40.000	41.579	Same as Surface	
5	13.453	37-00647.002	Linda Weiss	O.R. 469, P. 643	15.741	15.716	LL&B Headwater I LP	O.R. 406, P. 692
6a	0.157	37-00647.000	Thomas J. & Kathleen M. Miller	O.R. 473, P. 72	45.816	45.858	LL&B Headwater I LP LL&B Headwater II LP	O.R. 411, P. 179 O.R. 443, P. 680
6b	0.00	37-00647.000	Thomas J. & Kathleen M. Miller	O.R. 473, P. 72	36.000	36.000	Patrick A. McCort, Jr.	V. 756, P. 970
7	3.578	37-00647.001	William J. Jr., & Michael G. Howiler	V. 805, P. 919	4.963	4.963	Same as Surface	
8	42.000	37-00375.000	William J. Jr. & Michael G. Howiler	V. 708, P. 922 O.R. 451, P. 877	40.400	42.000	Same as Surface	
9	70.356	37-00365.000	Hothem Family Properties, LP	V. 789, P. 431	100.000	103.902	Same as Surface	
10	0.403	37-01196.000	Donald R. Hayes, Michael A. Hayes, Howard H. Hayes, Lawrence V. Hayes, Patricia L. Hayes, John L. Hayes	O.R. 261, P. 422 O.R. 261, P. 426 O.R. 589, P. 212	64.530	62.868	Donald R. Hayes, Michael A. Hayes, Howard H. Hayes, Lawrence V. Hayes, Patricia L. Hayes, John L. Hayes	V. 717, P. 156 O.R. 261, P. 422 O.R. 259, P. 212
11	12.558	37-00622.000	William J. Jr., & Michael G. Howiler	V. 748, P. 344	20.000	21.005	Same as Surface	
12	0.640	37-00289.000	William H. McChesney	V. 766, P. 210	17.734	17.736	Same as Surface	
13	0.826	37-00289.001	William H. McChesney	V. 766, P. 210	23.136	23.138	Same as Surface	
14	9.165	37-00362.000	Hothem Family Properties, LP	V. 789, P. 431	40.000	41.593	Same as Surface	
15	41.638	37-00364.000	Hothem Family Properties, LP	V. 789, P. 431	40.400	41.844	Same as Surface	
16	20.691	37-00373.000	Hothem Family Properties, LP	V. 789, P. 431	120.800	124.430	Same as Surface	
17	94.701	12-007003.0000	Hothem Family Properties, LP	O.R. 105, P. 105	308.000	311.514	Same as Surface	
18	46.505	12-007002.0000	Hothem Family Properties, LP	O.R. 64, P. 658	51.260	51.000	Same as Surface	
19	0.487	12-008006.0000	Hothem Family Properties, LP	O.R. 105, P. 105	121.700	121.000	Same as Surface	
20	0.813	12-007011.0000	Terry Stephen, Sandra McCormick, Todd Stephen	O.R. 41, P. 510	1.001	1.005	Same as Surface	
21	1.116	12-007012.0000	John & Tracy Velickoff	O.R. 238, P. 844	25.674	25.674	Tiree Land, LLC Resource Minerals Headwater I, LP	O.R. 234, P. 665 O.R. 299, P. 841
22	23.075	12-007013.0000	David S. & Emma Yeder	O.R. 279, P. 351	42.9316	42.910	Sunrise Exploration & Production, LLC LL&B Headwater II, LP	O.R. 264, P. 145 O.R. 255, P. 14
23	2.939	12-007006.1000	Sunrise Exploration & Production LLC	O.R. 264, P. 145	9.8934	9.893	Sunrise Exploration & Production, LLC LL&B Headwater II, LP	O.R. 264, P. 145 O.R. 255, P. 14
24	0.202	12-008008.0000	Andrew E. & Rachel D. Miller	O.R. 279, P. 426	80.000	80.241	Andrew E. & Rachel D. Miller Daniel & Sarah Gingerich	O.R. 279, P. 426 V. 207, P. 719

Prepared For: Antero Resources Corporation
1615 Wynkoop Street
Denver, CO 80202

Location: Sections: 25, 31 / 24, 30
Township & Range: T-7 R-6 / T-6 R-6
Township: Somerset / Malaga
County: Belmont / Monroe (Coal Bearing Counties)

U.S.G.S. Quad: Lewisville & Barnesville

PROJECT: *MCCHESNEY UNIT*
DATE: 8/25/2016
REVISED:
DRAWN: SSU
CHECKED: CMB, DSK
CAD FILE: McChesney DOU Plat.dwg

SCALE: No Scale
SHEET 2 OF 2

JHA
SURVEYING
ENGINEERS
ENVIRONMENTAL
GIS MAPPING
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
Phone: (740) 695-5100
Fax: (740)140-2343

X:\Projects\NEBOLAT\ANDRO\McChesney Unit\McChesney 2016 Hatchery DOU Plat-2, 8/25/2016 10:32:27 AM