



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, February 7, 2020
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for MAGGIE UNIT 3H
47-095-02639-00-00

Modified Lateral

ANTERO RESOURCES CORPORATION

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.

If there are any questions, please feel free to contact me at (304) 926-0450.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a light blue circular stamp.

James A. Martin
Chief

Operator's Well Number: MAGGIE UNIT 3H
Farm Name: BARBARA KAY TURNER
U.S. WELL NUMBER: 47-095-02639-00-00
Horizontal 6A New Drill
Date Modification Issued: February 7, 2020

Promoting a healthy environment.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Antero Resources Corporation 494507062 095 - Tyler Ellsworth Paden City 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Maggie Unit 3H Well Pad Name: Gamehenge East Pad

3) Farm Name/Surface Owner: Barbara Kay Turner Public Road Access: State Ridge Road

4) Elevation, current ground: 1072' Elevation, proposed post-construction: ~1061'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7000' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7000' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25,500' MD

11) Proposed Horizontal Leg Length: 15,948'

12) Approximate Fresh Water Strata Depths: 363'

13) Method to Determine Fresh Water Depths: Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1093'

15) Approximate Coal Seam Depths: 550'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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JAN 24 2020

WV Department of
Environmental Protection

*DAIT
1-22-20*

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	H-40	94#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	413 *see # 19	413 *see # 19	CTS, 574 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	25,500	25,500	2810 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

*Dmit
1-22-20*

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs
Anticipated Max Rate - 80 bpm

*DmH
1-22-20*

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 7.45 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.45 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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Environmental Protection

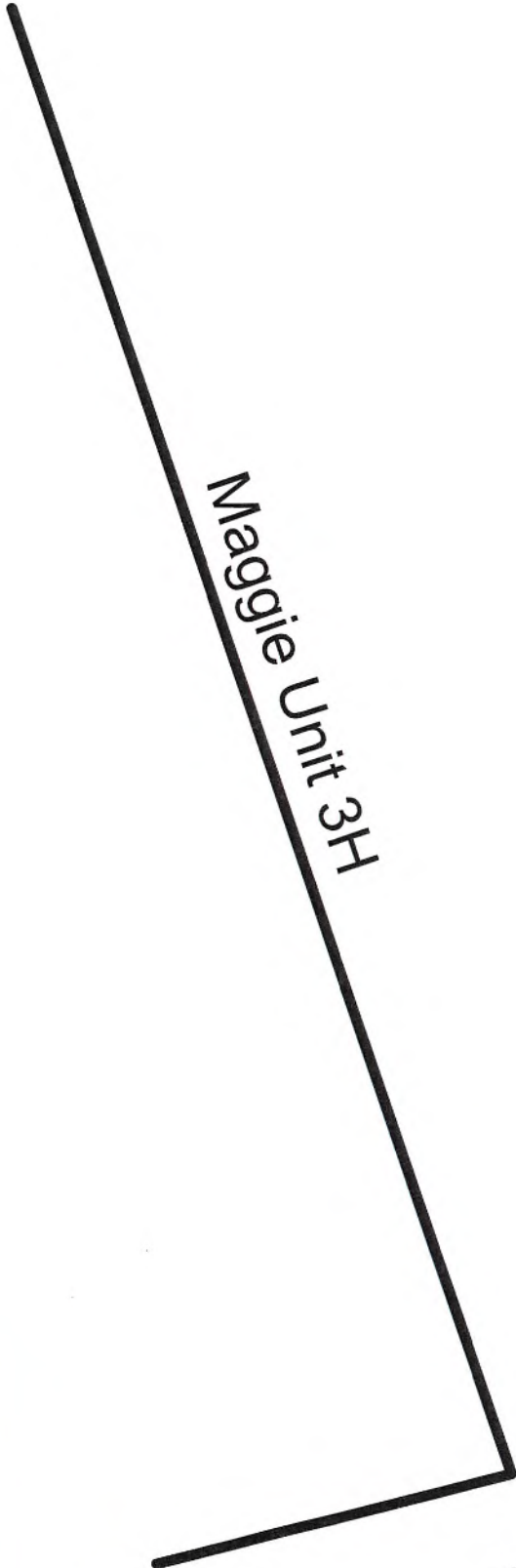
24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement.
Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake
Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.



Antero Resources Corporation

Maggie Unit 3H - AOR



REMARKS
No Wells of Interest

January 9, 2020

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Office of Oil and Gas

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WV Department of
Environmental Protection

Antero Resources
Well No. Maggie Unit 3H
BHL MOD
Antero Resources Corporation

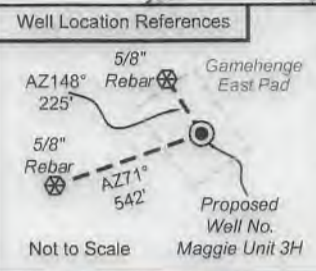


6,555' to Bottom Hole
 3,311' to Top Hole
TOP HOLE LATITUDE 39 - 32 - 30
BTM HOLE LATITUDE 39 - 35 - 00

Notes:
 Well No. Maggie Unit 3H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,347,567.26'
 E: 1,672,540.74'
 Point of Entry Coordinates
 N: 14,348,288.84'
 E: 1,674,421.93'
 Bottom Hole Coordinates
 N: 14,363,374.47'
 E: 1,669,265.41'

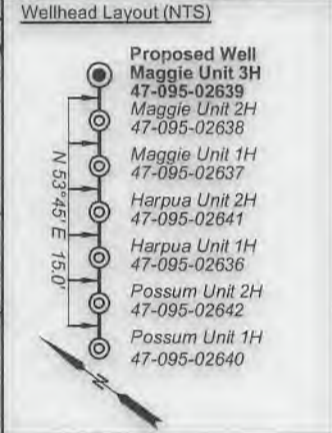
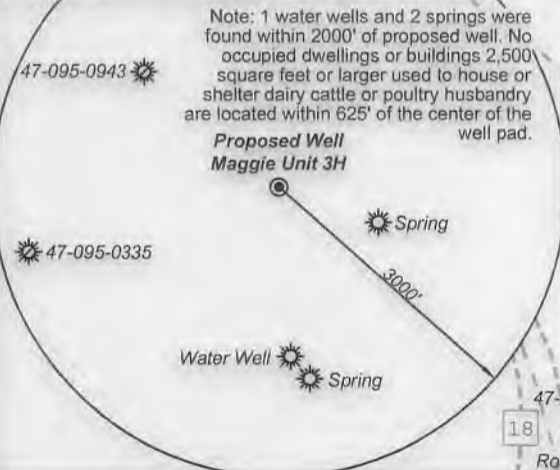
- Legend**
- ⊙ Proposed gas well
 - ☀ Existing Well, as noted
 - ⊙ Found corner, as noted
 - ☀ Digitized Well
 - - - - - Creek or Drain
 - - - - - Existing Road
 - - - - - Surface boundary (approx.)
 - - - - - Interior surface tracts (approx.)

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Maggie Unit 3H Top Hole coordinates are
 N: 370,800.51' Latitude: 39°30'35.22"
 E: 1,608,929.63' Longitude: 80°53'09.98"
 Bottom Hole coordinates are
 N: 386,665.60' Latitude: 39°33'11.54"
 E: 1,605,917.61' Longitude: 80°53'51.55"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,373,364.949m N: 4,378,183.013m
 E: 509,805.926m E: 508,807.754m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.



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
Bradley D. Miller, P.S. 2167



	Bearing	Dist.
L1	N 01°26' W	1,479.8'
L2	N 57°57' E	2,817.9'
L3	S 63°54' E	2,091.2'
L4	S 31°20' E	1,066.7'
L5	N 69°58' E	2,015.5'

FILE NO: 283-54-E-17
 DRAWING NO: Maggie 3H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: January 8 2020
 OPERATOR'S WELL NO. Maggie Unit 3H
 API WELL NO. MOD
 47 - 095 - 02639
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Proposed 1061' Existing 1072' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
 DISTRICT: Ellsworth COUNTY: Tyler 64.5; 285.00625; 62.84375; 45; 85.71; 154.17;
 SURFACE OWNER: Barbara Kay Turner Pamela Oakley-Whitting John E. Roberts; Sara Blanche Lilly (2); Nancy J. Squires; Rosemary Haught; J&N Management Enterprises, LLC; ACREAGE: 26.18 195.47; 30; 76.998;
 ROYALTY OWNER: Linda L. Newbrough; Jack Russell Folger, et ux; Darla S. Colombo; Dianne T. Carpenter LEASE NO: ACREAGE: 22.67; 47.75
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 7,000' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,500' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313



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 SURFACE OWNER: Barbara Kay Turner Pamela Oakley-Whitting John E. Roberts; Sara Blanche Lilly (2); Nancy J. Squires; Rosemary Haught; J&N Management Enterprises, LLC; ACREAGE: 26.18
 ROYALTY OWNER: Linda L. Newbrough; Jack Russell Folger, et ux; Darla S. Colombo; Dianne T. Carpenter LEASE NO: _____ ACREAGE: _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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Lincoln District				Ellsworth District					
ID	TM / Par	Owner(s)	Book / Page	Acres	ID	TM / Par	Owner(s)	Book / Page	Acres
67	9 / 41	Roger J. Morgan II	327 / 31	1.40	1	15 / 18	Barbara Kay Turner	398 / 670	26.18
68	9 / 41.2	Rodney L. & Brenda K. Morgan	342 / 121	0.517	2	14 / 26	Barbara Kay Turner	398 / 670	26.34
69	9 / 41.1	Nancy M. Morgan	269 / 629	0.99	3	14 / 27	Ridgetop Capital LP	372 / 299	64.96
70	9 / 39	Nancy M. Morgan	157 / 512	0.42	4	15 / 19	David Mendenhall, et al	282 / 723	45.00
71	9 / 44	Diane W. Clark	WB 39 / 544	40.681	5	15 / 17	Timothy Aiken, et al	288 / 662	85.71
72	9 / 44.1	Rodney L. & Brenda K. Morgan	297 / 137	5.299	6	15 / 37	John D. Mendenhall & Jeffrey A. Davis	444 / 531	154.17
73	9 / 33.3	David Dean & Whitney C. Cooper	438 / 62	12.131	7	14 / 25	Stanley M. Koterba, et al	331 / 32	126.05
74	9 / 37	William Bassett	WB 30 / 15	0.92	8	14 / 11	Larry R. Henthorn	270 / 363	21.50
75	9 / 37.1	Dottie Marie Perrine	WB 30 / 15	0.41	9	9 / 61	Larry R. Henthorn	212 / 606	10.00
76	9 / 38	Charles O. Rice	157 / 293	1.31	10	9 / 60	James F. & Phyllis Henthorn	190 / 311	36.47
77	9 / 33	Jefferson Minerals LLC	438 / 66	69.169	11	10 / 63	Larry R. & Kim M. Henthorn	355 / 654	1.00
78	9 / 34	James Lee & Michael E. Sine	438 / 427	125.60	12	10 / 62	Haessley Land & Timber, LLC	334 / 833	268.91
79	9 / 32	Tracy P. Carr	346 / 487	32.174	13	9 / 59	James F. & Phyllis Henthorn	190 / 311	46.13
80	9 / 31	Russell L. & Mary E. Myers	347 / 263	31.451	14	9 / 49	Claudia Jean Gray	WB 29 / 220	15.15
81	9 / 31.1	Russell L. & Mary E. Myers	340 / 654	38.04	15	9 / 48.2	Kirk Family Trust	511 / 167	0.33
82	9 / 21	Thomas K. Brotherton	23 / 310	64.00	16	9 / 48.4	Francis D. & Barbara Ann Slider	290 / 347	3.64
83	9 / 19	Russell L. & Mary E. Myers	337 / 26	93.167	17	9 / 48.5	Kathleen (Baxter) Fluharty	291 / 212	0.929
84	9 / 11	Ralph D. & Mary Jo Koontz	201 / 424	83.14	18	9 / 48.3	Larry Ronald Henthorn	290 / 166	0.323
85	5 / 3	Ralph D. & Mary Jo Koontz	206 / 457	50.25	19	9 / 43	Catherine L. Bennett	217 / 376	0.72

ID	Lease
A	Linda L. Newbrough
B	Naomi V. Beagle
C	Jack Russell Folger, et ux
D	Darla S. Colombo
E	Dianne T. Carpenter
F	Stanley M. Koterba & Irene E. Koterba
G	Sarah Valentour Nass
H	Larry R. Henthorn, et ux
J	Phyllis M. & James F. Henthorn, Sr.
K	Rosemary Haught
L	Phyllis M. & James F. Henthorn, Sr.
M	Larry R. Henthorn, et ux
N	Brandy I. Ankrom
P	J&N Management Enterprises, LLC
Q	Charles F. Eddy
R	Emily Day
S	Michael P. & Sherri J. Tuttle
T	Bobby S. & Sue Marie Adams
U	Roger Ankrom
V	Union Bank
W	John E. Roberts
X	Waco Oil & Gas, Inc.
Y	Nancy J. Squires
Z	David E. Bowyer
AA	Charles M. Ferrell
AB	H3, LLC
AC	Sara Blanche Lilly
AD	Sara Blanche Lilly
AE	Nancy J. Squires
AF	Larry Henthorn
AG	Pamela Oakley-Whitting
AH	Jefferson Minerals, LLC
AI	Roger Morgan
AJ	Kathryn L. Watkins
AK	Diane W. Kestle
AL	Nancy Templeton
AM	Michael D. Reynolds
AN	Bounty Minerals, LLC
AO	Timothy L. Vancamp
AP	Lazeas Chapel Church, Non-Profit Organization
AQ	Melanie Dye
AR	Herman Haught & Betty Haught, individually & JTWROS
AS	Shaun Potts, et ux
AT	Thomas Skinner
AU	Rodney Morgan, et ux
AV	Nancy Morgan
AW	Kathleen Pierce
AX	Nile A. Archer, et ux
AY	Robert Sine, Jr., et ux
AZ	Larry Henthorn

20	9 / 48.7	Kathleen (Baxter) Fluharty	332 / 216	0.548
21	9 / 48	Michael D. & Martha K. Pierpoint	332 / 514	2.82
22	9 / 25	Michael & Sherri Tuttle	319 / 341	24.52
23	9 / 29	Frank Ankrom	203 / 165	13.30
24	9 / 44	Mariyn Ankrom & Brady Ankrom	WB 47 / 269	20.00
25	10 / 29	Robert P. Thomas & Sharon L. Thomas	335 / 366	30.00
26	10 / 30	Robert P. Thomas & Sharon L. Thomas	335 / 366	35.75
27	10 / 28.1	Paul William Kirk	355 / 551	38.008
28	9 / 27	Mariyn Ankrom & Brady Ankrom	WB 47 / 269	17.35
29	9 / 27.1	Patty Henthorn & Melanie Dye	232 / 688	0.37
30	9 / 27.2	Herman & Betty Haught	250 / 484	0.23
31	9 / 26.1	Lazeas Chapel Trustees	283 / 523	0.06
32	9 / 28	Lazeas Chapel Methodist	--- / ---	2.21
33	9 / 26	Mariyn Ankrom & Brady Ankrom	WB 47 / 269	18.94
34	9 / 24	Bob S. & Sue Marie Adams	204 / 599	7.148
35	9 / 15.1	Thomas Skinner & Marilyn Sure Skinner	226 / 477	0.713
36	9 / 15.2	Par Mar Realty Company	534 / 407	3.091
37	9 / 15.3	Fred Midcap	351 / 7	44.00
38	9 / 22	Shawn Allen & Cathy A. Potts	291 / 217	0.98
39	10 / 28	John E. Roberts	WB 30 / 142	38.99
40	9 / 65	Julia A. & Nile A. Archer	340 / 225	3.00
41	9 / 16	Sara A. Midcap	181 / 278	96.78
42	9 / 15	Heartwood Forestland Fund II LP	326 / 547	225.64
43	9 / 2	William & Margaret A. Garrett	284 / 41	22.19
44	9 / 3.1	Big Run Properties, LLC	569 / 286	2.34
45	9 / 64	Carol Morgan, et al	262 / 459	0.97
46	9 / 5.1	John W. Starkey	255 / 571	2.55
47	9 / 5.2	Ronald Lee Cooper	329 / 471	7.49
48	9 / 5.3	James M. & Sherry L. Starkey	287 / 381	7.58
49	9 / 5	Leslie E. Steven, Heirs & Meryl L. Stevens	287 / 381	0.18
50	9 / 17.1	Julia A. Archer	571 / 671	3.678
51	9 / 17.2	Julia A. Archer	571 / 671	1.904
52	9 / 17.3	Friendly Public Service District	363 / 485	0.23
53	9 / 17	Daniel J. & Rebecca B. Stillwagoner	562 / 565	47.30
54	9 / 19	John E. Roberts	185 / 263	22.67
55	9 / 10	James K. & Kristy Fletcher Wade	320 / 231	1.061
56	9 / 10.1	Kevin Fletcher	320 / 235	0.443
57	9 / 9	Calvary Apostolic Church Trustees	400 / 573	2.00
58	9 / 13.3	James R. & Beverly A. Underwood	335 / 266	0.778
59	9 / 11	James R. & Beverly A. Underwood	359 / 492	0.35
60	9 / 8	Gary A. & Penny K. Midcap	324 / 542	1.42
61	9 / 7	Larry & Kim Henthorn	330 / 536	2.52
62	9 / 13.1	Timothy L. Connie J. McHenry	242 / 681	10.83
63	9 / 7.1	Donald D. Henthorn & Deitra Kay Moore	309 / 196	2.09
64	9 / 7.2	Donald D. Henthorn & Deitra Kay Moore	330 / 536	8.00
65	9 / 4	Donald D. & Deitra Kay Henthorn	330 / 536	0.21
66	9 / 42	Larry G. & Neoma A. Spratt	310 / 705	24.64

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 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

WW-6A1

Operator's Well Number Maggie Unit 3H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Linda L. Newbrough Lease</u>			
Linda L. Newbrough	Chesapeake Appalachia, LLC	1/8	0373/0234
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc	Assignment	0376/0733
Statoil USA Onshore Properties, Inc	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>Jack Russell Folger, et ux Lease</u>			
Jack Russell Folger, et ux	Antero Resources Corporation	1/8+	0495/0097
<u>Darla S. Columbo Lease</u>			
Darla S. Columbo	Stone Energy Corporation	1/8	0397/0728
Stone Energy Corporation	Antero Resources Corporation	Assignment	0442/0037
<u>Dianne Carpenter Lease</u>			
Dianne Carpenter	Antero Resources Corporation	1/8+	565/0483
<u>Rosemary Haught Lease</u>			
Rosemary Haught	Antero Resources Corporation	1/8+	0459/0179
<u>J&N Management Enterprises LLC Lease</u>			
J&N Management Enterprises LLC	Antero Resources Corporation	1/8+	0563/0697
<u>John E. Roberts Lease</u>			
John E. Roberts	Stone Energy Corporation	1/8+	0410/0522
Stone Energy Corporation	Antero Resources Corporation	Assignment	0442/0037
<u>Sara Blanche Lilly Lease</u>			
Sara Blanche Lilly	Antero Resources Corporation	1/8+	0502/0441
<u>Sara Blanche Lilly Lease</u>			
Sara Blanche Lilly	Antero Resources Corporation	1/8+	483/826
<u>Nancy Squires Lease</u>			
Nancy Squires	Antero Resources Corporation	1/8+	537/97


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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>Pamela Oakley Whiting Lease</u>	Pamela Oakley Whiting	Antero Resources Corporation	1/8+	0637/695

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

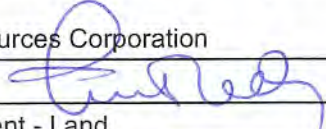
- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

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Environmental Protection

Well Operator: Antero Resources Corporation
 By: Tim Rady 
 Its: Vice President - Land