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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, March 21, 2022  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

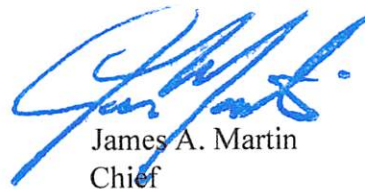
Re: Permit Modification Approval for MULE UNIT 1H  
47-017-06916-00-00

**Lateral Extension**

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.



James A. Martin  
Chief

Operator's Well Number: MULE UNIT 1H  
Farm Name: ANTERO MIDSTREAM, LLC  
U.S. WELL NUMBER: 47-017-06916-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 3/21/2022

Promoting a healthy environment.

03/25/2022

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

1) Well Operator: Antero Resources Corporation 494507062 017-Doddridge West Union West Union 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Mule Unit 1H Well Pad Name: Gaspar

3) Farm Name/Surface Owner: Antero Midstream Public Road Access: US Route 5

4) Elevation, current ground: 1216' Elevation, proposed post-construction: 1189'

5) Well Type (a) Gas  Oil  Underground Storage

Other \_\_\_\_\_

(b) If Gas Shallow  Deep   
Horizontal  \_\_\_\_\_

*SDW*  
*3/10/2022*

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 7600 TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7600 TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20,400

11) Proposed Horizontal Leg Length: 8722.4'

12) Approximate Fresh Water Strata Depths: 200'

13) Method to Determine Fresh Water Depths: Offset well records, 47017047970000

14) Approximate Saltwater Depths: 1345'

15) Approximate Coal Seam Depths: None Anticipated

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: \_\_\_\_\_

WW-6B  
(04/15)

API NO. 47- 017 - 08916 MOD  
 OPERATOR WELL NO. Mule Unit 1H  
 Well Pad Name: Gaspar

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	16"	New	H-40	65#	100'	100'	CTS, 79 Cu. Ft.
Fresh Water	10-3/4"	New	J/K-55	40.4#	300	300'	CTS, 164 Cu. Ft.
Coal	7-5/8"	New	P-110CY	26.4#	2500'	2500'	CTS, 698Cu. Ft.
Intermediate							
Production	5"	New	P-110 CY	18#	20400'	20400'	CTS, 2023Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

*SPW*  
*3/10/2022*

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	16"	20"	0.375"	1530	50	Class A	~1.16
Fresh Water	10-3/4"	13-1/2"	0.35"	2730	1000	Class A	~1.16
Coal	7-5/8"	9-7/8"	0.328"	9410	1500	Class A	~1.16
Intermediate							
Production	5"	6-3/4"	0.362"	15,840	12,000	Class G/H	~1.16
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

**PACKERS**

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

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

Drill a new horizontal shallow well into the 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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 48.38 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.32 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.

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:

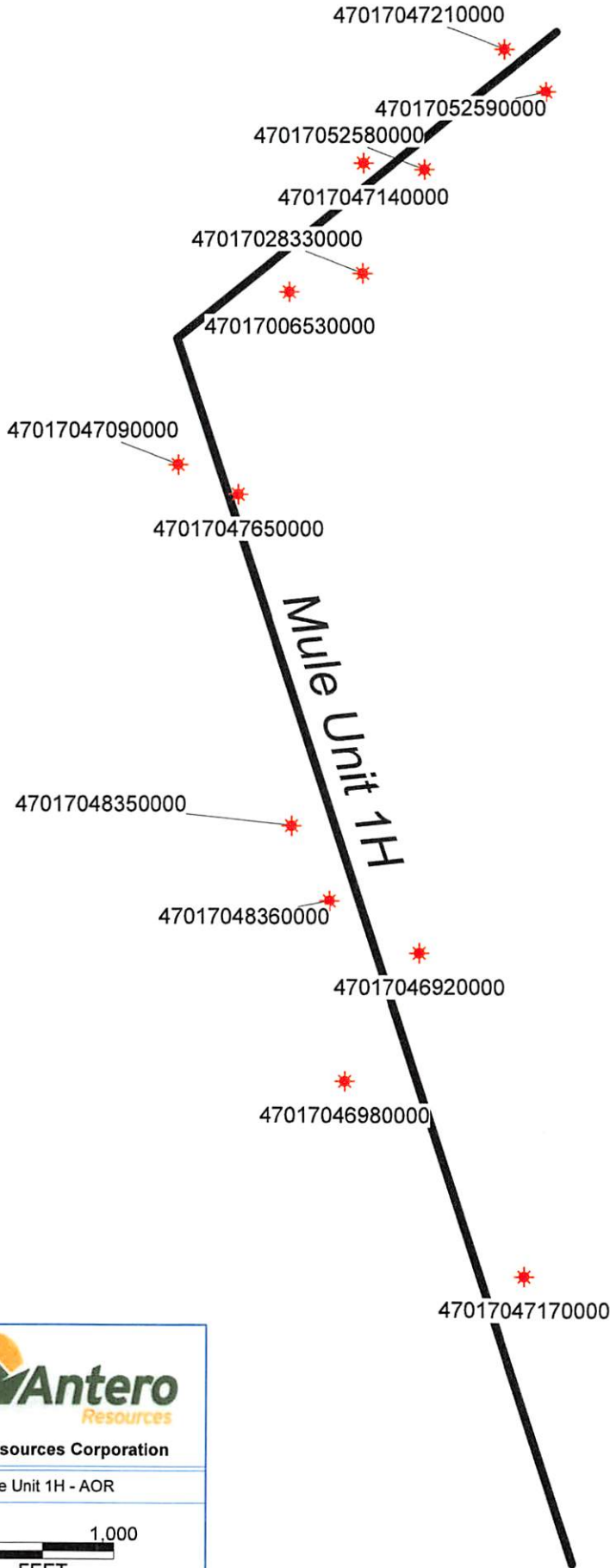
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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

Mule Unit 1H - AOR



WELL SYMBOLS  
Gas Well

February 22, 2022

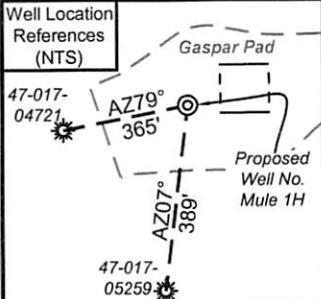
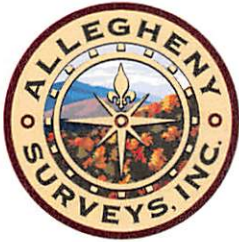
03/25/2022

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47017052590000	J SMITH	5	ANTERO RESOURCES CORPORATION	SPENCER ENTERPRISES	2,966	2078 - 2766	Greenbrier, Big Injun, Gordon	Warren, Speechley, Balltown, Riley, Benson
47017047210000	FARR	2	KEY OIL CO	KEY OIL CO	5,630	3524 - 5481	Warren, Speechley, Balltown, Riley, Benson, Alexander	Gordon, Berea
47017052580000	J SMITH	4	ANTERO RESOURCES CORPORATION	SPENCER ENTERPRISES	2,818	1992 - 2712	Greenbrier, Big Injun, Gordon	Alexander, Berea
47017047140000	FARR	1	KEY OIL CO	KEY OIL CO	5,497	3439 - 5391	Warren, Speechley, Balltown, Riley, Benson, Alexander	Gordon, Berea
47017028330000	J SMITH	1	SPENCER ENTERPRISES	SPENCER HUGH K ET AL	2,500	Unknown	Unknown	Unknown
47017006530000	SUMMERS & SMITH	1	OLE COLONY DEV	OLE COLONY DEV	1,973	Unknown	Salt Sands, Big Injun	Alexander, Gordon, Berea
47017047090000	SMITH-SUMMERS	2	KEY OIL CO	KEY OIL CO	5,303	3230 - 5170	Warren, Speechley, Balltown, Riley, Benson, Alexander	Gordon, Berea
47017047650000	SMITH J	1	SPENCER ENTERPRISES	SPENCER ENTERPRISES	3,008	1994 - 2700	Big Injun, Gordon	Alexander, Berea
47017048350000	DAVIS	1	KEY OIL CO	KEY OIL CO	5,343	3243 - 5189	Warren, Speechley, Balltown, Riley, Benson, Alexander	Gordon, Berea
47017048360000	DAVIS	2	KEY OIL CO	KEY OIL CO	2,827	1963 - 2730	Keener, Big Injun, Squaw, Gordon	Alexander, Berea
47017046920000	LONGACRE	1	KEY OIL CO	KEY OIL CO	5,363	3238 - 5217	Warren, Speechley, Balltown, Riley, Benson, Alexander	Gordon, Berea
47017046980000	HOLTZ	2	KEY OIL CO	KEY OIL CO	2,763	1910 - 2602	Big Injun, Keener, Squaw, Gordon	Alexander, Berea
47017047170000	MAXWELL/FARR	5	BERRY ENERGY INC	ALPHA OIL & GAS CO	2,823	1847 - 2574	Maxton, Big Injun, Gordon	Alexander, Berea

**Antero Resources**  
**Well No. Mule 1H**  
**BHL MOD**  
 Antero Resources Corporation

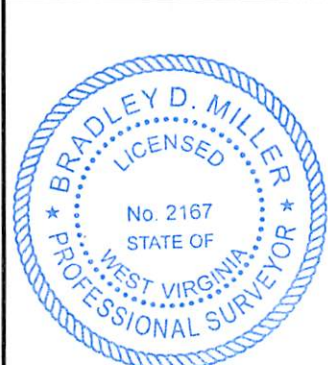
Sheet 1 of 2

3,659' to Top Hole  
 3,514' to Bottom Hole  
 TOP HOLE LATITUDE 39 - 20 - 00  
 BTM HOLE LATITUDE 39 - 17 - 30

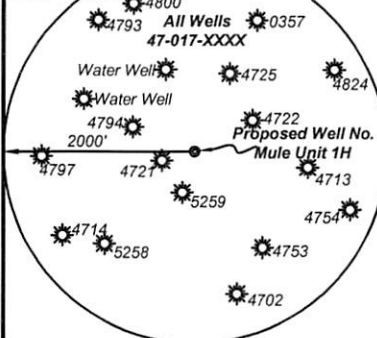


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Bradley D. Miller*  
 Bradley D. Miller, P.S. 2167



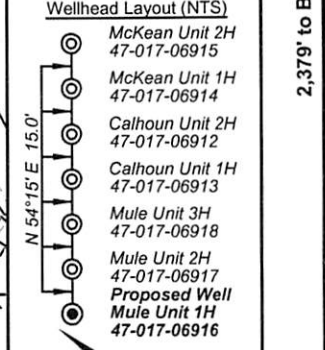
Note: 2 water well was found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Legend

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

Notes:  
 Well No. Mule Unit 1H  
 UTM Zone 17, NAD 1927  
 Top Hole Coordinates  
 N: 14,276,538.45'  
 E: 1,707,468.59'  
 Point of Entry Coordinates  
 N: 14,274,137.69'  
 E: 1,704,954.24'  
 Bottom Hole Coordinates  
 N: 14,265,843.22'  
 E: 1,707,642.64'



Notes  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Mule Unit 1H Top Hole coordinates are  
 N: 299,174.02' Latitude: 39°18'52.25"  
 E: 1,642,679.03' Longitude: 80°45'46.56"  
 Bottom Hole coordinates are  
 N: 288,473.63' Latitude: 39°17'06.50"  
 E: 1,642,674.68' Longitude: 80°45'44.70"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,351,715.545m N: 4,348,455.629m  
 E: 520,451.879m E: 520,504.926m  
 Plat orientation and corner and well references are based upon the grid north meridian.  
 Well location references are based upon the magnetic meridian.

	Bearing	Dist.
L1	N 89°46' E	1,518.8'
L2	S 62°11' E	636.6'
L3	S 61°56' W	773.4'
L4	N 20°01' W	1,529.7'
L5	S 47°17' W	3,477.7'

FILE NO: 55-30-WU-14  
 DRAWING NO: Mule Unit 1H Well Plat  
 SCALE: 1" = 1500'  
 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: February 25 2022  
 OPERATOR'S WELL NO. Mule Unit 1H  
 API WELL NO MOD  
 47 - 017 - 06916  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Existing: 1,216' Proposed: 1,189' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
 DISTRICT: West Union Antero  
 SURFACE OWNER: Midstream, LLC  
 ROYALTY OWNER: William A. Farr; James Lincoln Smith; William Ashburn Heirs; Lila June Jackson; LEASE NO: 54 48; 223  
 COUNTY: Doddridge  
 ACREAGE: 45.8  
 ACREAGE: 301.19; 137; 53.5

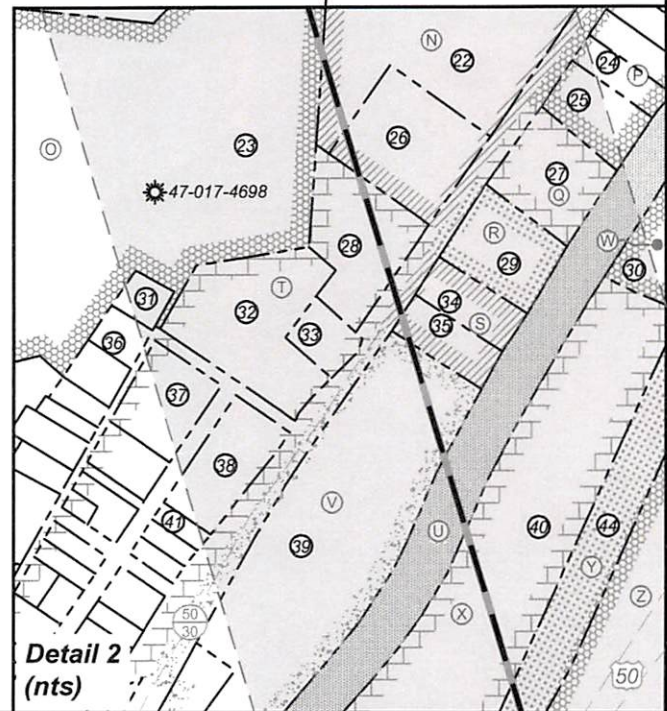
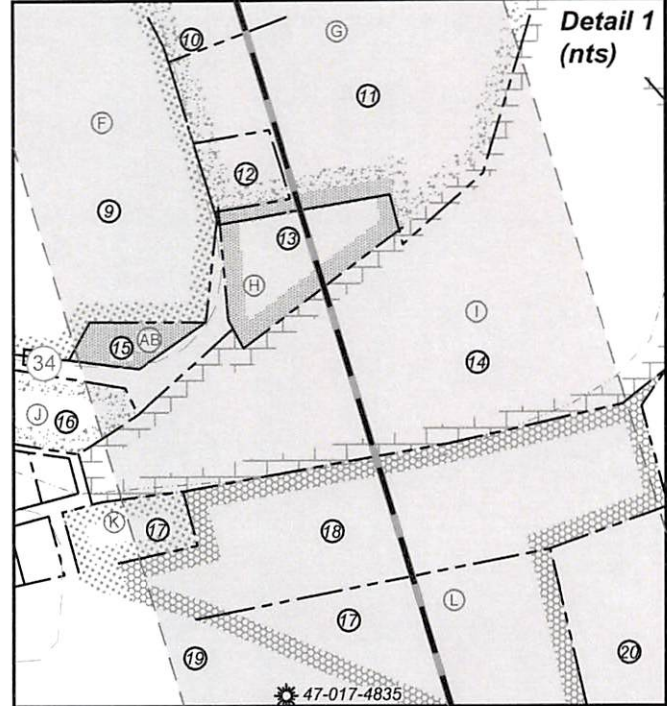
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,600' TVD  
 20,400' MD

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



Leases			
A	William A. Farr	O	Frank Holtz Jr.
B	William Ashburn Heirs	P	Winston Love Family Trust
C	James Lincoln Smith	Q	Cheryl Lynn Hall
D	G. Frank Ash, et al	R	James P. Pierce
E	Lila June Jackson	S	Earl D. Daugherty
F	John F. Curran, II	T	Franklin Maxwell Heirs
G	Roy E. Smith, et ux	U	WVDNR
H	Trustees of West Union Christian Church	V	Lesley Partite
I	Michael A. Swisher, et ux	W	Key Oil Company & Franklin Butler
J	Elijah B. Ross	X	AMP Fund III, LP
K	L. Donald Cinci, III	Y	WV State Rail Authority
L	Ernest Spence Shannon, et al	Z	R.S. Maxwell & Clarence E. Sigley Sr.
M	Ernest Spence Shannon, et al	AA	Carolyn E. Farr Trust
N	Frank L. Butler	AB	Michael T. Headley, et ux

ID	TM/Par	Owner	Bk/Pg	Acres
1	7-18.1	Antero Midstream, LLC	346/612	45.8
2	7-18	Antero Midstream, LLC	387/708	116.54
3	7-29	Sharon A. Gaspar	W113/242	182.67
4	7-27	Barbara J. Travis & Sharon K. Weekley	W62/674	69.69
5	7-18.3	Bryan & Ronda Ash	216/663	15.00
6	7-18.2	Brian D. and Patricia Sue Reed	392/472	1.34
7	7-30	Bryan & Ronda Ash	426/74	0.36
8	7-24	Iva Marie Partridge	W119/186	3.46
9	11-7	Paul David, II & Linda Nicole Weekley	250/445	41.16
10	11-87	Amy B. & Howard Spurlock II	244/522	8.94
11	11-87.1	Amy B. & Howard Spurlock II	243/113	5.94
12	11-87.2	Howard & Amy Spurlock II	425/632	0.47
13	11-86	Freeman Cemetery	---/---	1.00
14	11-7.1	Michael A. & Vivian L. Swisher	219/617	3.50
15	11-30	Michael T. & Susan M. Headley	277/138	0.45
16	1-157	Elijah B. Ross	361/225	1.45
17	11-15	Rhoda Rene Fitzsimmons, et al	272/89	4.65
18	11-14	Rhoda Rene Fitzsimmons, et al	272/89	5.12
19	11-22	Rhoda Rene Fitzsimmons, et al	272/660	23.27
20	11-16	Rhoda Rene Fitzsimmons, et al	272/89	19.72
21	11-23	Justin E. & Melissa Ann Holtz	342/354	23.77
22	11-24	Clarence Ray Bonnell, et al	105/317	15.76
23	11-42	Justin E. Holtz & Melissa Ann Megna	259/269	14.00
24	11-53	Shelly G. Bonnell	275/367	0.29
25	11-52	Daniel L. Friend	274/34	0.51
26	11-47	Marlin Purkey	320/722	1.15
27	11-51	Cheryl Lynn Hall	W89/488	1.00
28	11-46	Marlin Purkey	320/722	1.16
29	11-50	Earl R. Daugherty	304/415	1.00
30	11-69.1	Franklin L. Butler	255/666	1.00
31	11-24.1	Jo Ann B. Waters Revocable Trust	331/354	0.30
32	11-44	Lucinda R. Buchanan	294/461	0.44
33	11-45	David M. & Cinda L. Fleming	W51/603	0.28
34	11-49	Earl R. Daugherty & Naomi Jean Cupp	305/518	0.40
35	11-48	Earl R. Daugherty & Naomi Jean Cupp	305/518	0.32
36	2-1	Daniel L. & Leiva J. Webb	264/262	0.40
37	2-3	Town of West Union	264/678	0.62
38	2-4	James D. Owens	273/263	0.69
39	11-67.5	Earl R. Daugherty	368/30	5.78
40	11-68	Earl R. Daugherty	286/205	5.00
41	4-101	James D. Owens	273/263	0.10
42	11-95	WV Railroad Maintenance Authority	216/166	31.84
43	11-80	Karen M. Ireland Family L.P.	235/3	105.35
44	11-79.1	Daniel J. Welling	190/537	1.40
45	11-79	Randolph Cemetery	140/139	1.92
46	11-81	Carolyn E. Farr Irrevocable Trust	221/627	41.74
47	12-71.1	Franklin L. Butler & Key Oil Co.	256/324	81.91
48	15-8	Ruth M. Davies Pierce Heirs	26/160	1437.95



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 47 - 017 - 06916  
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 DISTRICT: West Union Antero ROYALTY OWNER: Carolyn E. Farr Trust; R.S. Maxwell & Clarence E. Sigley, Sr.; WV State Rail Authority; WVDNR  
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 ROYALTY OWNER: William A. Farr; James Lincoln Smith; William Ashburn Heirs; Lila June Jackson; LEASE NO: Roy E. Smith, et ux; Trustees of the West Union Christian Church; Frank L. Butler; ACREAGE: 45.8  
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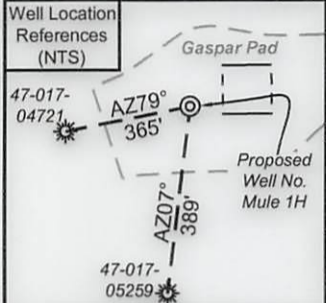
03/25/2022



**Antero Resources**  
**Well No. Mule 1H**  
**BHL MOD**  
 Antero Resources Corporation

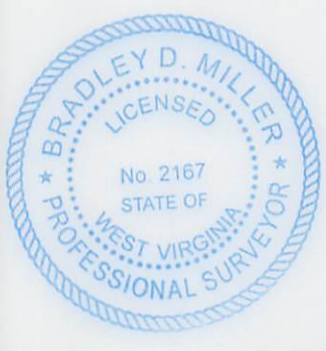
Sheet 1 of 2

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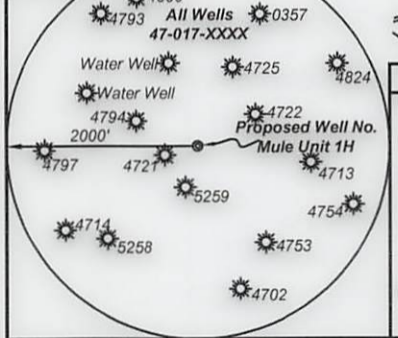


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*Bradley D. Miller*  
 Bradley D. Miller, P.S. 2167



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**Wellhead Layout (NTS)**

- McKean Unit 2H  
47-017-06915
- McKean Unit 1H  
47-017-06914
- Calhoun Unit 2H  
47-017-06912
- Calhoun Unit 1H  
47-017-06913
- Mule Unit 3H  
47-017-06918
- Mule Unit 2H  
47-017-06917
- Proposed Well  
Mule Unit 1H  
47-017-06916

**Notes**  
 West Virginia Coordinate System  
 of 1927, North Zone  
based upon Differential GPS Measurements.  
 Well No. Mule Unit 1H Top Hole coordinates are  
 N: 299,174.02' Latitude: 39°18'52.25"  
 E: 1,642,679.03' Longitude: 80°45'46.56"  
 Bottom Hole coordinates are  
 N: 288,473.63' Latitude: 39°17'06.50"  
 E: 1,642,674.68' Longitude: 80°45'44.70"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,351,715.545m N: 4,348,455.629m  
 E: 520,451.879m E: 520,504.926m  
 Plat orientation and corner and well references  
 are based upon the grid north meridian.  
 Well location references are based upon the magnetic  
 meridian.

Bearing	Dist.
L1 N 89°46' E	1,518.8'
L2 S 62°11' E	636.6'
L3 S 61°56' W	773.4'
L4 N 20°01' W	1,529.7'
L5 S 47°17' W	3,477.7'

FILE NO: 55-30-WU-14  
 DRAWING NO: Mule Unit 1H Well Plat  
 SCALE: 1" = 1500'  
 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: February 25 2022  
 OPERATOR'S WELL NO. Mule Unit 1H  
 API WELL NO MOD  
 47 - 017 - 06916  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Existing: 1,216' Proposed: 1,189' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
 DISTRICT: West Union Antero COUNTY: Doddridge  
 SURFACE OWNER: Midstream, LLC ROYALTY OWNER: William A. Farr; James Lincoln Smith; William Ashburn Heirs; Lila June Jackson; LEASE NO: ACREAGE: 45.8  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,600' TVD 20,400' 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

03/25/2022

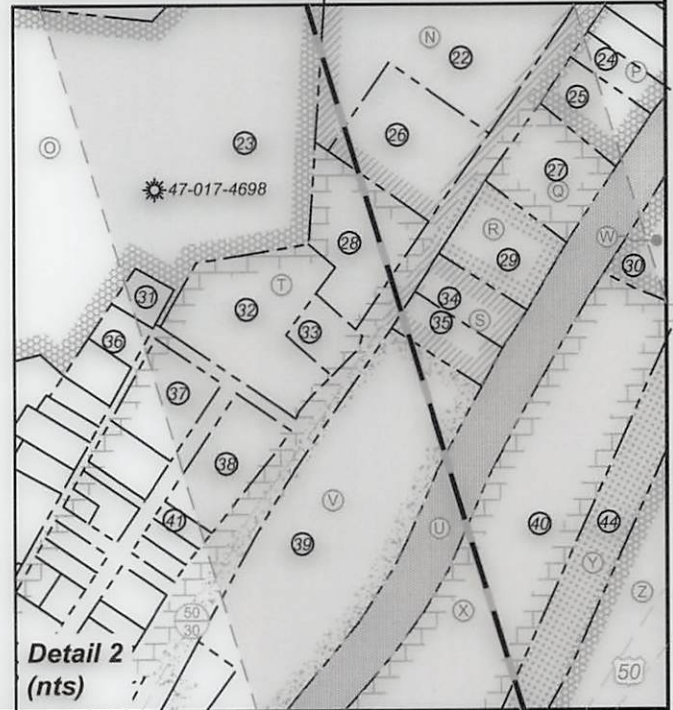
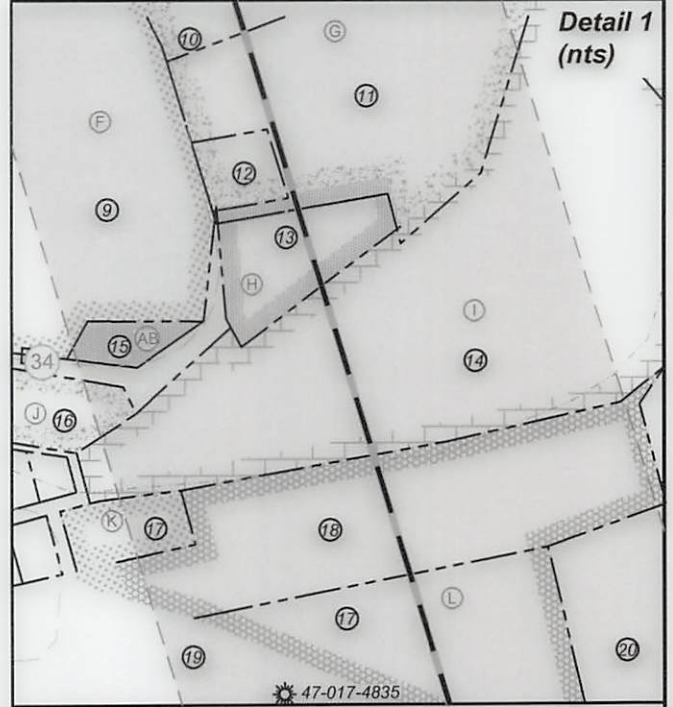
**Antero Resources**  
**Well No. Mule 1H**  
**BHL MOD**  
 Antero Resources Corporation

Sheet 2 of 2



Leases			
A	William A. Farr	O	Frank Holtz Jr.
B	William Ashburn Heirs	P	Winston Love Family Trust
C	James Lincoln Smith	Q	Cherly Lynn Hall
D	G. Frank Ash, et al	R	James P. Pierce
E	Lila June Jackson	S	Earl D. Daugherty
F	John F. Curran, II	T	Franklin Maxwell Heirs
G	Roy E. Smith, et ux	U	WVDNR
H	Trustees of West Union Christian Church	V	Lesley Partite
I	Michael A. Swisher, et ux	W	Key Oil Company & Franklin Butler
J	Elijah B. Ross	X	AMP Fund III, LP
K	L. Donald Cinci, III	Y	WV State Rail Authority
L	Ernest Spence Shannon, et al	Z	R.S. Maxwell & Clarence E. Sigley Sr.
M	Ernest Spence Shannon, et al	AA	Carolyn E. Farr Trust
N	Frank L. Butler	AB	Michael T. Headley, et ux

ID	TM/Par	Owner	Bk/Pg	Acres
1	7-18.1	Antero Midstream, LLC	346/612	45.8
2	7-18	Antero Midstream, LLC	387/708	116.54
3	7-29	Sharon A. Gaspar	W113/242	182.67
4	7-27	Barbara J. Travis & Sharon K. Weekley	W62/674	69.69
5	7-18.3	Bryan & Ronda Ash	216/663	15.00
6	7-18.2	Brian D. and Patricia Sue Reed	392/472	1.34
7	7-30	Bryan & Ronda Ash	426/74	0.36
8	7-24	Iva Marie Partridge	W119/186	3.46
9	11-7	Paul David, II & Linda Nicole Weekley	250/445	41.16
10	11-87	Amy B. & Howard Spurlock II	244/522	8.94
11	11-87.1	Amy B. & Howard Spurlock II	243/113	5.94
12	11-87.2	Howard & Amy Spurlock II	425/632	0.47
13	11-86	Freeman Cemetery	---	1.00
14	11-7.1	Michael A. & Vivian L. Swisher	219/617	3.50
15	11-30	Michael T. & Susan M. Headley	277/138	0.45
16	1-157	Elijah B. Ross	361/225	1.45
17	11-15	Rhoda Rene Fitzsimmons, et al	272/89	4.65
18	11-14	Rhoda Rene Fitzsimmons, et al	272/89	5.12
19	11-22	Rhoda Rene Fitzsimmons, et al	272/660	23.27
20	11-16	Rhoda Rene Fitzsimmons, et al	272/89	19.72
21	11-23	Justin E. & Melissa Ann Holtz	342/354	23.77
22	11-24	Clarence Ray Bonnell, et al	105/317	15.76
23	11-42	Justin E. Holtz & Melissa Ann Megna	259/269	14.00
24	11-53	Shelly G. Bonnell	275/367	0.29
25	11-52	Daniel L. Friend	274/34	0.51
26	11-47	Marlin Purkey	320/722	1.15
27	11-51	Cheryl Lynn Hall	W89/488	1.00
28	11-46	Marlin Purkey	320/722	1.16
29	11-50	Earl R. Daugherty	304/415	1.00
30	11-69.1	Franklin L. Butler	255/666	1.00
31	11-24.1	Jo Ann B. Waters Revocable Trust	331/354	0.30
32	11-44	Lucinda R. Buchanan	294/461	0.44
33	11-45	David M. & Cinda L. Fleming	W51/603	0.28
34	11-49	Earl R. Daugherty & Naomi Jean Cupp	305/518	0.40
35	11-48	Earl R. Daugherty & Naomi Jean Cupp	305/518	0.32
36	2-1	Daniel L. & Leiva J. Webb	264/262	0.40
37	2-3	Town of West Union	264/678	0.62
38	2-4	James D. Owens	273/263	0.69
39	11-67.5	Earl R. Daugherty	368/30	5.78
40	11-68	Earl R. Daugherty	286/205	5.00
41	4-101	James D. Owens	273/263	0.10
42	11-95	WV Railroad Maintenance Authority	216/166	31.84
43	11-80	Karen M. Ireland Family L.P.	235/3	105.35
44	11-79.1	Daniel J. Welling	190/537	1.40
45	11-79	Randolph Cemetery	140/139	1.92
46	11-81	Carolyn E. Farr Irrevocable Trust	221/627	41.74
47	12-71.1	Franklin L. Butler & Key Oil Co.	256/324	81.91
48	15-8	Ruth M. Davies Pierce Heirs	26/160	1437.95



FILE NO: 55-30-WU-14  
 DRAWING NO: Mule Unit 1H Well Plat  
 SCALE: 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

**STATE OF WEST VIRGINIA**  
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DATE: February 25 2022  
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 API WELL NO **MOD**  
 47 - 017 - 06916  
 STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: Existing: 1,216' Proposed: 1,189' Headwaters: Middle Island Creek QUADRANGLE: West Union  
 DISTRICT: West Union Antero COUNTY: Doddridge  
 SURFACE OWNER: Midstream, LLC ROYALTY OWNER: William A. Farr; James Lincoln Smith; William Ashburn Heirs; Lila June Jackson; LEASE NO: ACREAGE: 45.8  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,400' 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

03/25/2022

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
<b><u>William A. Farr Lease</u></b>			
A William A. Farr	Carolyn E. Farr Trust	1/8	0277/0644
Carolyn E. Farr Trust	Antero Resources Appalachian Corporation	Assignment	0281/0310
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>0046/0523</b>
<b><u>James Lincoln Smith Lease</u></b>			
C James Lincoln Smith	Duncan Sartain	1/8	0071/0080
Duncan Sartain	L.E. Scherck	Assignment	0072/0377
L.E. Scherck	Roscoe B.G. Cowper & B.T. Cowper	Assignment	0071/0183
Roscoe B.G. Cowper & B.T. Cowper	Lawrence H. Aberegg	Assignment	0098/0233
Lawrence H. Aberegg	Hugh K. Spencer	Assignment	0098/0235
Hugh K. Spencer	Ronald B. Spencer and Rhonda S. Rossetti, as co-executors of the estate of Hugh K. Spencer	Will	0033/0068
Ronald B. Spencer and Rhonda S. Rossetti, as co-executors of the estate of Hugh K. Spencer	Ronald B. Spencer and Rhonda S. Rossetti, as co-trustees of the Hugh K. Spencer Martial Trust B	Assignment	0199/0282
Ronald B. Spencer and Rhonda S. Rossetti, as co-trustees of the Hugh K. Spencer Martial Trust B	Spencer Enterprises, LLC	Assignment	0199/0534
Spencer Enterprises, LLC	Antero Resources Appalachian Corporation	Assignment	0264/0099
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>0046/0523</b>
<b><u>William A. Farr Lease (NOT COTENANCY)</u></b>			
A William A. Farr	Carolyn E. Farr Trust	1/8	0277/0644
Carolyn E. Farr Trust	Antero Resources Appalachian Corporation	Assignment	0281/0310
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>0046/0523</b>
<b><u>William Ashburn Heirs Lease</u></b>			
B William Ashburn Heirs	J.C. Smith	1/8	0056/0249
J.C. Smith	John W. Casto, et al	Fiduciary	0008/0071
<b>John W. Casto, et al</b>	<b>Antero Resources Corporation</b>	<b>Assignment</b>	<b>0333/0509</b>
<b><u>Lila June Jackson Lease</u></b>			
E Lila June Jackson	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>0346/0340</b>
<b><u>James Lincoln Smith Lease</u></b>			
C James Lincoln Smith	Duncan Sartain	1/8	0071/0080
Duncan Sartain	L.E. Scherck	Assignment	0072/0377
L.E. Scherck	Roscoe B.G. Cowper & B.T. Cowper	Assignment	0071/0183
Roscoe B.G. Cowper & B.T. Cowper	Lawrence H. Aberegg	Assignment	0098/0233
Lawrence H. Aberegg	Hugh K. Spencer	Assignment	0098/0235
Hugh K. Spencer	Ronald B. Spencer and Rhonda S. Rossetti, as co-executors of the estate of Hugh K. Spencer	Will	0033/0068
Ronald B. Spencer and Rhonda S. Rossetti, as co-executors of the estate of Hugh K. Spencer	Ronald B. Spencer and Rhonda S. Rossetti, as co-trustees of the Hugh K. Spencer Martial Trust B	Assignment	0199/0282

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Ronald B. Spencer and Rhonda S. Rossetti, as co-trustees of the Hugh K. Spencer Marital Trust B Spencer Enterprises, LLC Antero Resources Appalachian Corporation	Spencer Enterprises, LLC Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Assignment Name Change	0199/0534 0264/0099 0046/0523
<b><u>Roy E. Smith, et ux Lease</u></b>			
Roy E. Smith, et ux Key Oil Company J & J Enterprises Inc ENG Drilling Company No. 3	Key Oil Company J & J Enterprises Inc. ENG Drilling Company No. 3 Eastern American Energy Corporation successor by Merger to J & J Enterprises, Inc. Energy Corporation of America	1/8 Assignment Assignment Assignment	0105/0239 0111/0326 0116/0181 0167/0308
Eastern American Energy Corporation successor by Merger to J & J Enterprises, Inc. Energy Corporation of America Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Merger	0240/0498 0272/0307 0046/0523
<b><u>The Trustees of the West Union Christian Church Lease</u></b>			
The Trustees of the West Union Christian Church	Antero Resources Corporation	1/8+	0498/0410
<b><u>Michael A. Swisher, et ux Lease</u></b>			
Michael A. Swisher, et ux	Antero Resources Corporation	1/8+	0499/0712
<b><u>Ernest Spence Shannon, et al Lease</u></b>			
Ernest Spence Shannon, et al Duncan Sartain D. Lee Jones	Duncan Sartain D. Lee Jones Bayard Thurman Cowper III, and Roscoe B.G. Cowper	1/8 Assignment Assignment	0073/0285 0074/0467 0098/0111
Bayard Thurman Cowper III, and Roscoe B.G. Cowper Lawrence H. Abregg Hugh K. Spencer	Lawrence H. Abregg Hugh K. Spencer Ronald B. Spencer and Rhonda S. Rossetti as co trustees of the Hugh K. Spencer Marital B Trust Spencer Enterprises, LLC	Assignment Assignment Will Book	0098/0120 0098/0235 0033/0068
Ronald B. Spencer and Rhonda S. Rossetti as co trustees of the Hugh K. Spencer Marital B Trust Spencer Enterprises LLC Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Assignment Merger	0251/0529 0264/0099 0046/0523
<b><u>Ernest Spence Shannon, et al Lease</u></b>			
Ernest Spence Shannon, et al Duncan Sartain D. Lee Jones	Duncan Sartain D. Lee Jones Bayard Thurman Cowper III, and Roscoe B.G. Cowper	1/8 Assignment Assignment	0073/0285 0074/0467 0098/0111
Bayard Thurman Cowper III, and Roscoe B.G.	Lawrence H. Abregg	Assignment	0098/0120

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Cowper Lawrence H. Abregg Hugh K. Spencer	Hugh K. Spencer Ronald B. Spencer and Rhonda S. Rossetti as co trustees of the Hugh K. Spencer Marital B Trust Spencer Enterprises, LLC	Assignment Will Book	0098/0235 0033/0068
Ronald B. Spencer and Rhonda S. Rossetti as co trustees of the Hugh K. Spencer Marital B Trust Spencer Enterprises LLC Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Merger	0251/0529 0264/0099 0046/0523
<u>Frank Holtz, Jr. Lease</u> Frank Holtz, Jr. Key Oil Company Antero Resources Appalachian Corporation	Key Oil Company Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Merger	0193/0012 0276/0526 0046/0523
<u>Frank L. Butler Lease</u> Frank L. Butler Key Oil Company Antero Resources Appalachian Corporation	Key Oil Company Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Merger	0193/0150 0276/0526 0046/0523
<u>Franklin Maxwell Heirs Lease</u> Franklin Maxwell Heirs Limited Partnership	Antero Resources Corporation	1/8+	0484/0158
<u>Earl D. Dougherty Lease</u> Earl D. Dougherty	Antero Resources Corporation	1/8+	0476/0422
<u>Lesley Partite Lease</u> Lesley Partite Key Oil Company Antero Resources Appalachian Corporation	Key Oil Company Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Merger	0195/0130 0276/0526 0046/0523
<u>WVDNR Lease</u> West Virginia Department of Transportation, Division of Highways	Antero Resources Corporation	1/8+	0483/0188
<u>AMP Fund III, LP Lease</u> AMP Fund III, LP	Antero Resources Corporation	1/8+	0487/0149
<u>WV State Rail Authority Lease</u> West Virginia State Rail Authority Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0253/0409 0046/0523
<u>R.S. Maxwell and Clarence E. Sigley Sr. Lease</u> R.S. Maxwell and Clarence E. Sigley, Sr. Trustee	Key Oil Company	1/8	0193/0020

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
for Carolyn E. Farr Trust			
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0276/0526
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523

**\*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.**

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>Carolyn E. Farr Trust Lease</u>	Carolyn E. Farr Trust	Antero Resources Corporation	1/8+	0500/0061

**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.

Well Operator: Antero Resources Corporation  
 By: Tim Rady  
 Its: Senior VP of Operations



March 8, 2022

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
Attn: Mr. Taylor Brewer  
601 57<sup>th</sup> Street  
Charleston, WV 25304

Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202  
Office 303.357.7310  
Fax 303.357.7315

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Gaspar Pad; Mule Unit 1H & 3H (47-017-06916, 47-017-06918).

Attached you will find the following:

- Revised Form WW-6B
- Revised Form WW-6A1
- Revised Mylar Plat
- AOR

If you have any questions please feel free to contact me at (303) 357-7182.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Mallory Stanton".

Mallory Stanton  
Permitting Supervisor  
Antero Resources Corporation

Enclosures

*ck#*  
*4005044*  
*\$2500<sup>00</sup>*  
*2/17/22*  
RECEIVED  
Office of Oil and Gas  
MAR 09 12  
WV Department of  
Environmental Protection

03/25/2022





Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

---

**Modifications Horizontal H6A Well Work Permit API: 47-017-06916 & 47-017-06918)**

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Tue, Mar 22, 2022 at 1:31 PM

To: Mallory Stanton &lt;mstanton@anteroresources.com&gt;, Diane Blair &lt;dblair@anteroresources.com&gt;, David Sponaugle &lt;dsponaug@assessor.state.wv.us&gt;, "Ward, Samuel D" &lt;samuel.d.ward@wv.gov&gt;

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.



**47-017-06916 - MULE UNIT 1H****47-017-06918 - MULE UNIT 3H**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**  
**Environmental Resource Specialist 3**  
**West Virginia Department of Environmental Protection**  
**Office of Oil & Gas**  
601 57th St. SE  
Charleston, WV 25304  
(304) 926-0499 ext. 41115  
(304) 926-0452 fax  
[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)

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**4 attachments** **47-017-06916 - mod.pdf**  
4373K **47-017-06918 - mod.pdf**  
4156K **IR-26 Blank.pdf**  
169K **IR-26 Blank.pdf**  
169K**03/25/2022**