



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, August 26, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Teocalli Unit 1H
47-103-03659-00-00

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.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: Teocalli Unit 1H
Farm Name: Dallison Lumber, Inc.
U.S. WELL NUMBER: 47-103-03659-00-00
Horizontal 6A New Drill
Date Modification Issued: 08/26/2024

Promoting a healthy environment.

08/30/2024

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

1) Well Operator: Antero Resources Corporation 494507062 103 - Wetzell Green Pine Grove 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Teocalli Unit 1H MOD Well Pad Name: Galmish Pad

3) Farm Name/Surface Owner: Dallison Lumber Inc. Public Road Access: McKimmie Ridge Road

4) Elevation, current ground: As-Built 1160.7 Elevation, proposed post-construction: _____

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal

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: 29000' MD

11) Proposed Horizontal Leg Length: 18,246' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 45', 130'

13) Method to Determine Fresh Water Depths: 47103025550000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1961'

15) Approximate Coal Seam Depths: N/A

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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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	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300'	300' ✓	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3200'	3200'	CTS, 1303 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	29000'	29000' ✓	CTS, 6380 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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"	0.375"	2250	50	Class A/L ✓	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	✓ 2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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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

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 64.40 acres

22) Area to be disturbed for well pad only, less access road (acres): 17.53 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/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A/L 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 G/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:

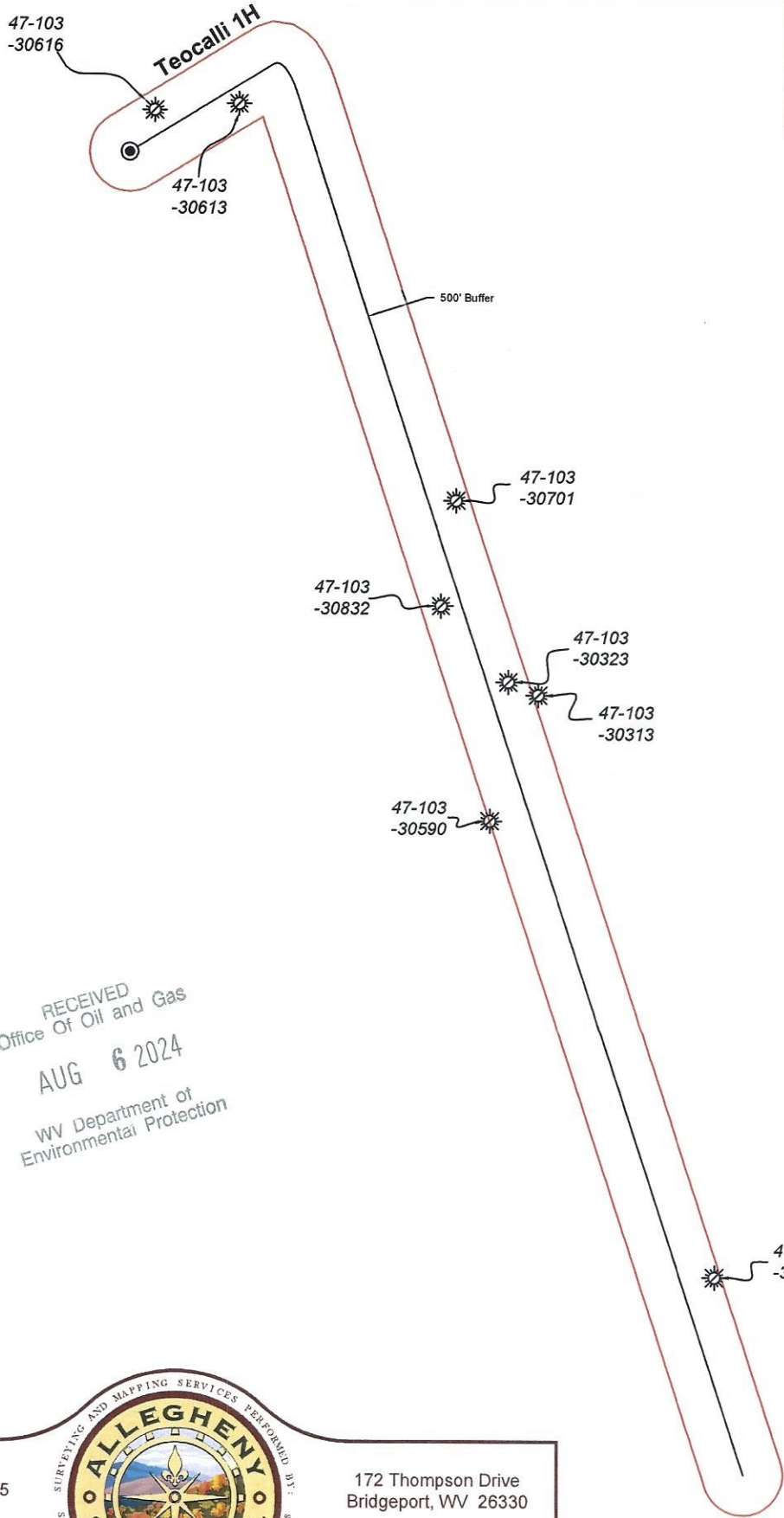
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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.



LEGEND	
⊙	Proposed gas well
☼	Existing Well, as noted
☼	Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone

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WV Department of
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Bridgeport Office Phone: (304) 848-5035 Fax: (304) 848-5037		172 Thompson Drive Bridgeport, WV 26330	
PARTY CHIEF: C. Lynch		DRAWN BY: J. McNemar	
RESEARCH: J. Miller		PREPARED: March 12, 2024	
SURVEYED: Dec. 2016		PROJECT NO: 132-34-G-18	
FIELD CREW: C.L., K.M.	Sheet 1 of 1	DRAWING NO: Teocalli 1H AOR	



Scale: 1 inch = 2000 feet

08/30/2024

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producibile Formation(s) not perf'd
47103306160000	J W HAINES 1	4850	UNKNOWN	UNKNOWN	2,891		Gordon Stray, Gordon	Weir, Benson, Alexander
47103306130000	LUTHER POSTLETHWAIT 1	6024	UNKNOWN	UNKNOWN	2,742		Big Injun, Gordon Stray, Fourth	Weir, Benson, Alexander
47103307010000	S L JOLLIFFE 1	1694	PHILADELPHIA OIL	PITTSBURGH&W VA GAS	2,543	2530 - 2530	Gordon	Weir, Benson, Alexander
47103308320000	ARA LONG	4271	HOPE NATURAL GAS	HOPE NATURAL GAS	2,878		Big Injun, Gordon	Weir, Benson, Alexander
47103303230000	A C STONE	1	MILLER W H	MILLER W H				Weir, Benson, Alexander
47103303130000	T M & AMANDA STONE	1	UNKNOWN	UNKNOWN				Weir, Benson, Alexander
47103305900000	NANCY OLIVER 1	1	UNKNOWN	UNKNOWN	2,589		Salt Sands, Gordon Stray, Gordon	Weir, Benson, Alexander
47103307880000	AMOS J LOWE	685	UNKNOWN	UNKNOWN	2,562		Big Injun, Gordon Stray, Gordon	Weir, Benson, Alexander

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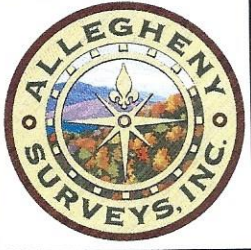
8,062' to Top Hole

126' to Bottom Hole

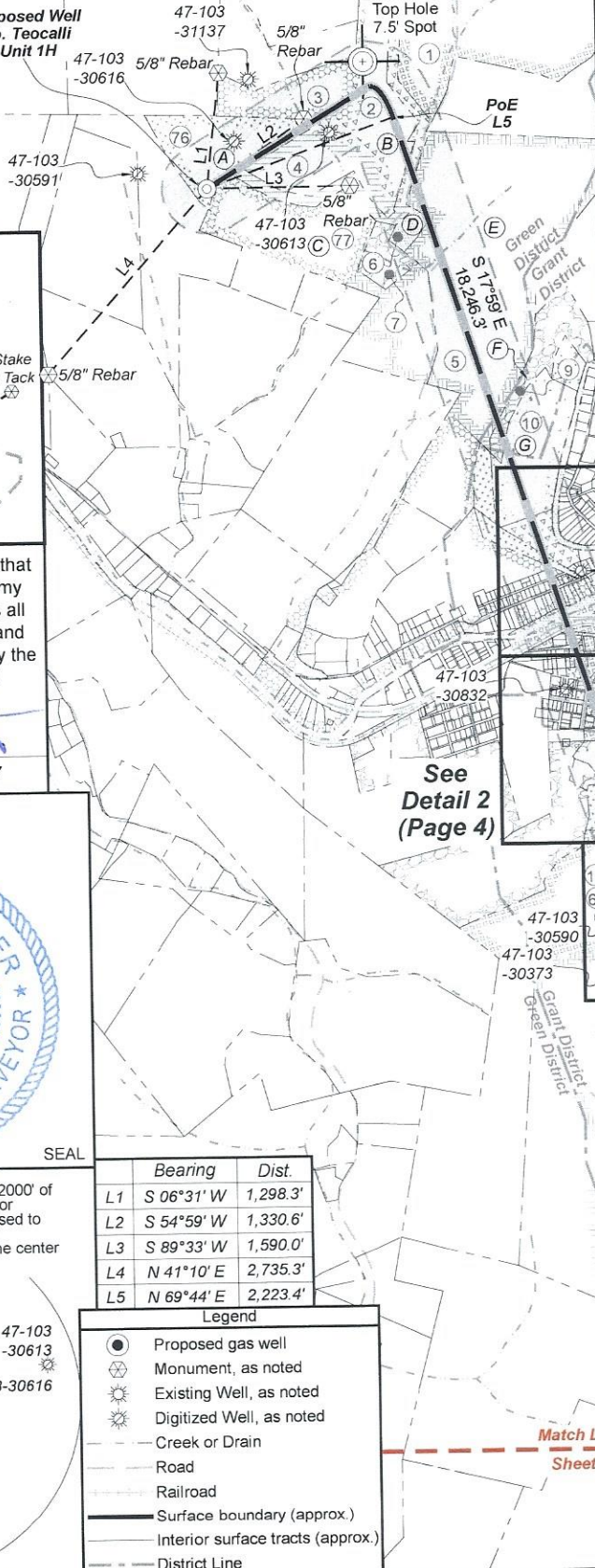
TOP HOLE LATITUDE 39 - 35 - 00 00
BTM HOLE LATITUDE 39 - 32 - 30 - 00

Antero Resources
Well No. Teocalli 1H
BHL MOD
Antero Resources Corporation

Page 1 of 4



Proposed Well
No. Teocalli
Unit 1H

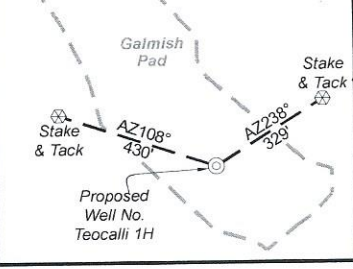


Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Teocalli Unit 1H Top Hole coordinates are N: 394,546.57' Longitude: 80°41'42.96" E: 1,663,094.65' Bottom Hole coordinates are N: 377,962.54' Latitude: 39°31'54.69" E: 1,670,815.85' Longitude: 80°40'01.61" UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,380,875.285m N: 4,375,862.132m
E: 526,187.191m E: 528,623.691m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

LONGITUDE 80 - 40 - 00
3,573' to Bottom Hole
2,268' to Top Hole
BTM Hole 7.5' Spot

Well Location References

Not To Scale



Notes:
Well No. Teocalli Unit 1H UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,372,205.83'
E: 1,726,283.69'
Point of Entry Coordinates
N: 14,373,010.44'
E: 1,728,355.57'
Bottom Hole Coordinates
N: 14,355,758.45'
E: 1,734,277.95'

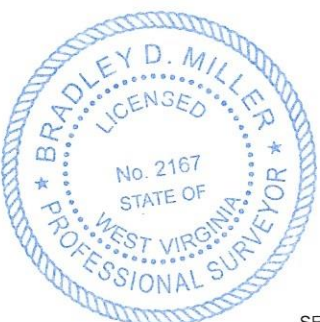
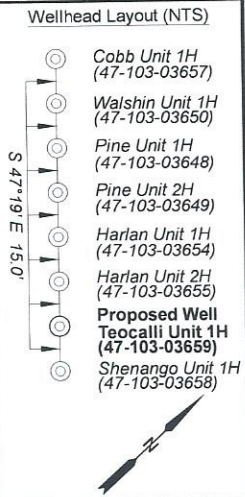
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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

See Detail 1 (Page 3)

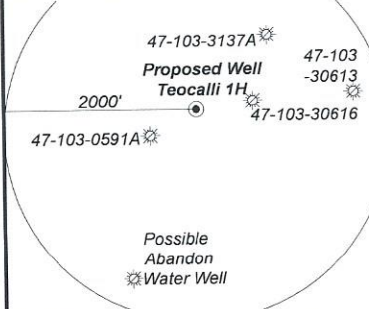
See Detail 2 (Page 4)

See Detail 3 (Page 4)



	Bearing	Dist.
L1	S 06°31' W	1,298.3'
L2	S 54°59' W	1,330.6'
L3	S 89°33' W	1,590.0'
L4	N 41°10' E	2,735.3'
L5	N 69°44' E	2,223.4'

Note: 1 water wells were 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
- Railroad
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- District Line

FILE NO: 132-34-G-18
DRAWING NO: Teocalli 1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

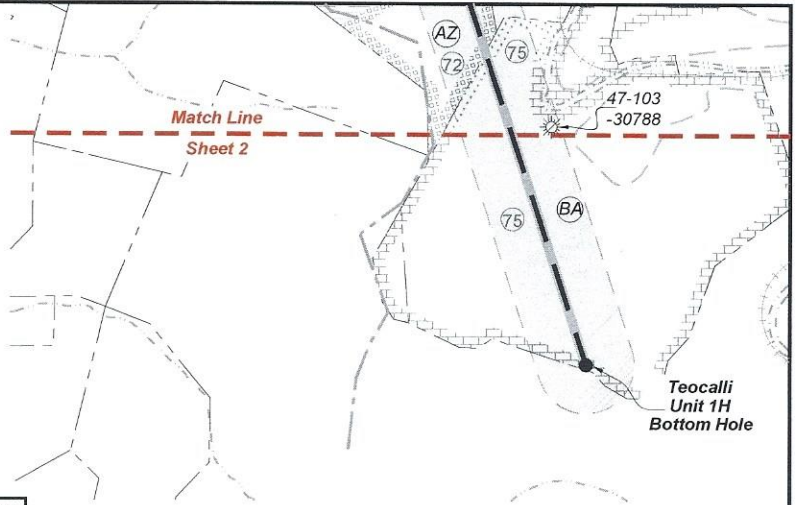
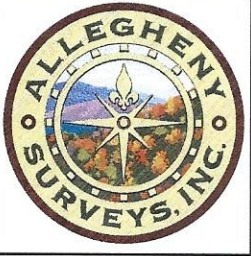
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: August 5 20 24
OPERATOR'S WELL NO. Teocalli 1H
API WELL NO
47 - 103 - 03659
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
DISTRICT: Green, Grant, Pine Grove Corp. COUNTY: Wetzel
SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25
ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL Mod 7,600' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,000' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

08/30/2024



ID	TM-Par	Owner	Bk/Pg	Acres
A	14-9	Dallison Lumber, Inc.	474/290	25.00
B	14-10	Sandra Jane Fortney	446/700	61.78
C	14-12	Freeda M. Brown	W79/104	70.06
D	14-14	Freeda M. Brown	W79/104	2.00
E	14-15.1	Community Sportsman's Club of Pine Grove	210/63	82.00
F	11-35	Allen Byard Jr.	282/18	12.50
G	11-40	Michael J. Scyoc	341/102	22.09
H	1-13	Melinda S. Coen	341/102	6.67
I	1-103	Larry D. & Melinda J. Kinkade	384/239	1.50
J	14-40	Larry D. & Melinda J. Kinkade	285/577	25.63
K	2-1	Harley Ray Parker, et al	450/792	0.20
L	2-2	Weldon P. Williams	477/519	0.11
M	2-3	Weldon P. Williams	477/519	0.28
N	2-37	Louis C. Freed, Jr.	404/682	0.09
O	2-36	Louis C. Freed, Jr.	404/682	0.18
P	2-35	Louis C. Freed, Jr.	404/682	0.09
Q	2-55	Louis C. Freed, Jr.	438/461	0.21
R	2-55.1	Louis C. Freed, Jr.	404/682	0.22
S	2-54.1	Robert A. Jr. & Shelly E. Coen	410/529	0.18
T	2-54	Robert A. Jr. & Shelly E. Coen	410/529	0.18
U	2-91.1	James E. Newman	400/234	1.14
V	2-92	Loren D. Adams	285/393	0.35
W	2-96	Katherine R. Henthorne, et al	405/9	0.52
X	2-111	Loretta F. Floyd	370/137	0.11
Y	2-110	Bryan A. Sell	476/471	0.14
Z	2-109	Bryan A. Sell	476/471	0.25
AA	2-114	Loretta F. Floyd	370/137	0.26
AB	2-115	Bryan A. Sell	476/471	0.36
AC	2-123.1	Bryan A. Sell	476/471	1.87
AD	2-113	Dallison Lumber, Inc.	403/166	1.00
AE	3-33	James Stewart & Molly Bucher	446/1	0.21
AF	3-54	Robert Keith, II & Donna Goontz	383/284	0.22
AG	3-34	David B. & Barbara Sue Beatty	316/403	0.21
AH	3-62	Timothy Wilcox	388/157	0.18
AI	3-61	Michael A. Neff	436/19	0.18
AJ	3-63	Tara J. Beatty	457/909	0.14
AK	3-64	Brenda J. Martin	W89/851	0.11
AL	3-65	Federal National Mortgage Corp.	476/341	0.22
AM	3-68	David C. & Susan M. Barr	365/14	0.16
AN	3-66	Michael S. Hornbeck	487/527	0.25
AO	3-58	Shirley Rohde	362/280	1.50
AP	3-58.2	Donald Ray Blake	372/536	2.00
AQ	11-78	Donald Ray Blake	372/536	1.50
AR	11-79	Dallison Lumber, Inc.	460/766	4.00
AS	16-4	Dallison Lumber, Inc.	460/766	0.98
AT	16-3	Kevin & Melinda Goff	418/658	5.10
AU	16-5	Kevin & Melinda Goff	418/652	2.00
AV	16-7	Kevin & Melinda Goff	421/253	0.33
AW	16-8	Dominion Gathering & Processing, Inc.	460/781	572.05
AX	16-41	Consolidated Gas Transmission Corp.	302/113	25.00
AY	16-42	Timothy & Michael McDiffitt	385/193	14.16
AZ	16-43	Timothy & Michael McDiffitt	385/193	54.00
BA	21-4.1	Eureka Hunter Land, LLC	431/771	258.75

Leases	
1	Black Gold Group, LTD
2	Antero Minerals, LLC
3	BRC Appalachian Minerals I, LLC
4	Robert Barry Myers, Jr.
5	Jay Michael Myers
6	Robert Barry Myers, Jr.
7	Antero Minerals, LLC
9	Priscilla M. Grimm
10	Midwest Energy, Inc.
11	T.H. Alley, et ux
12	Michael L. Benedum
13	WVDNR
14	Michael J. Scyoc
16	Three Rivers Royalty II, LLC
17	Three Rivers Royalty II, LLC
18	CSX Transportation
19	Bryan A. Sell & Danica D. Brown
27	James Stewart & Molly Bucher
28	P&P Fujimo LLC
30	P&P Fujimo LLC
33	David B. & Barbara Sue Beatty
34	Timothy L. Wilcox
35	Michael A. Neff
39	Tara J. Beatty
40	Robert V. Long & Brenda J. Martin
41	Perves Hai
46	David C. & Susan M. Barr
47	Michael S. Hornbeck
52	Donald Ray & Donald Ray II Black
55	Antero Minerals, LLC
59	Kevin Goff
60	Clay D.C. Dallison & Cody Duane Dallison
61	T.M. Stone and Amanda C. Stone
62	Chesapeake Appalachia, LLC
63	Kevin Goff
65	Sarah C. Oliver, et al
66	Mary Louise Wacker
67	Raymond P. & Pamela J. Gaston
68	CNX Gas Company, LLC
69	Kimble White, et al
70	H3, LLC
71	A. J. Witcherman, et al
72	Blackrock Enterprises, LLC
75	EQT Production Company
76	Robert Barry Myers, Jr.
77	Aunix Energy, LLC

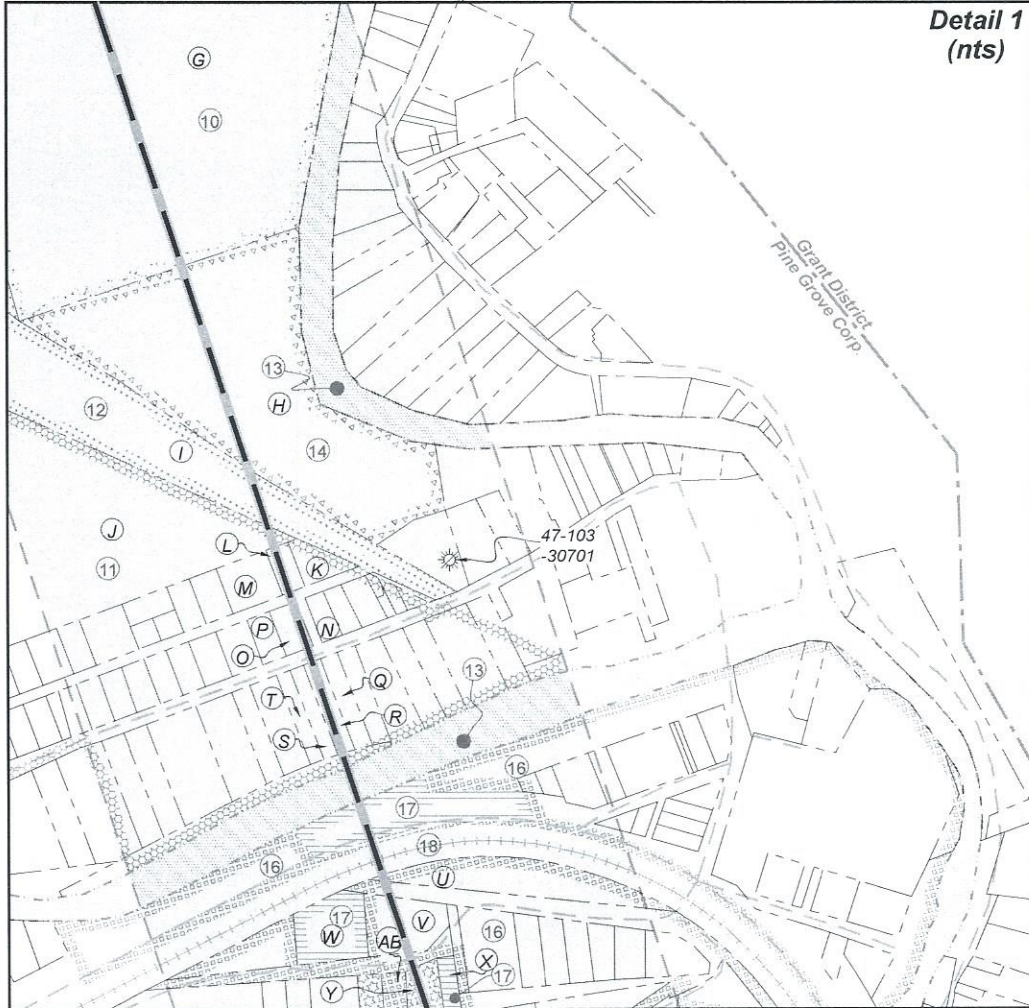
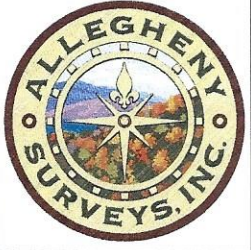
FILE NO: 132-34-G-18
 DRAWING NO: Teocalli 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
Submeter
 PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

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OIL AND GAS DIVISION

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47 - 103 - 03659
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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330



Detail 1
(nts)

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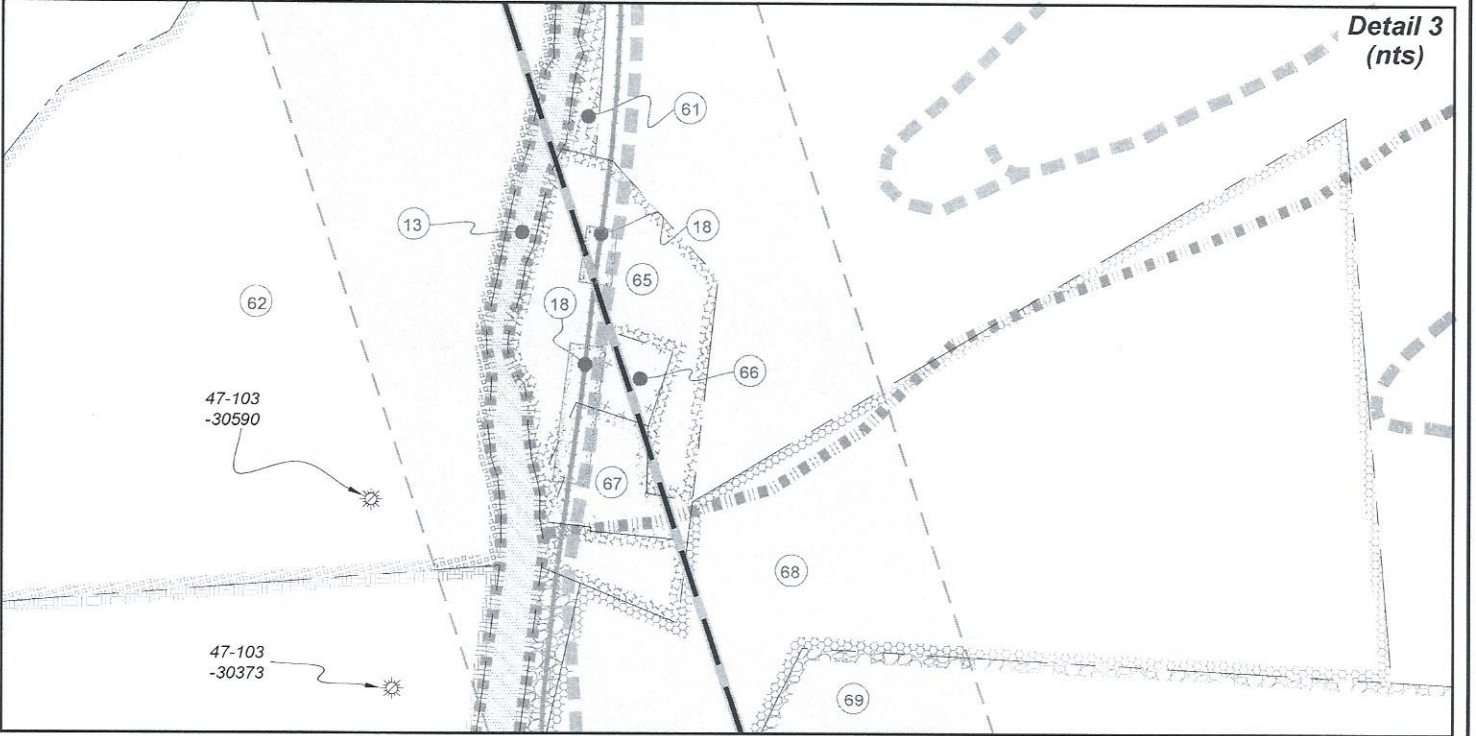
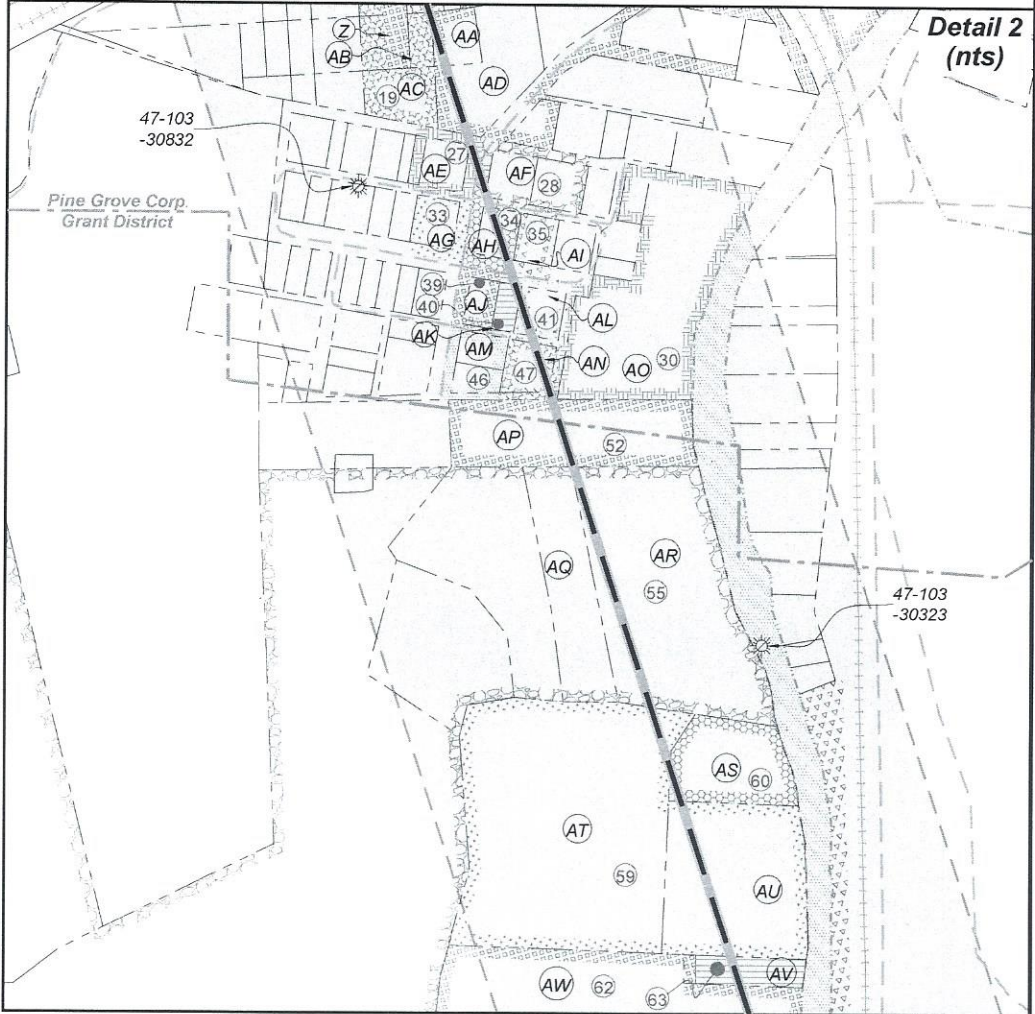
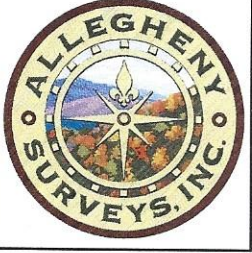
THE WEST VIRGINIA
STATE OF WEST VIRGINIA
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WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd
Denver, CO 80202 Bridgeport, WV 26330



FILE NO: 132-34-G-18
DRAWING NO: Teocalli 1H 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: August 5 20 24
OPERATOR'S WELL NO. Teocalli 1H
API WELL NO
47 - 103 - 03659
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
DISTRICT: Green, Grant, Pine Grove Corp. COUNTY: Wetzel
SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25 **08/30/2024**
ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: _____ ACREAGE: 25
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: 29,000' MD 7,600' TVD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>76: Robert Barry Myers, Jr. Lease</u> Robert Barry Myers, Jr.	Antero Resources Corporation	1/8+	300A/0634
<u>77: Aunix Energy, LLC Lease</u> Aunix Energy, LLC	Antero Resources Corporation	1/8+	305A/0014
<u>4: Robert Barry Myers, Jr. Lease</u> Robert Barry Myers, Jr.	Antero Resources Corporation	1/8+	304A/0413
<u>3: BRC Appalachian Minerals I, LLC Lease</u> BRC Appalachian Minerals I, LLC BRC Working Interest Company Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties, LLC	BRC Working Interest Company Chesapeake Appalachia LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	12.50% Assignment Assignment Assignment Merge	102A/0505 103A/0470 157A/0540 177A/0533 0013/0311
<u>2: Antero Minerals, LLC Lease</u> Antero Minerals, LLC	Antero Resources Corporation	1/8+	292A/0739
<u>5: Jay Michael Myers Lease</u> Jay Michael Myers Gastar Exploration USA, Inc. Stone Energy Corporation EQT Production Company	Gastar Exploration USA, Inc. Stone Energy Corporation EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment	103A/0277 152A/0521 183A/0305 230A/0783
<u>6: Robert Barry Myers, Jr. Lease</u> Robert Barry Myers Jr	Antero Resources Corporation	1/8+	343A/0633
<u>5: Jay Michael Myers Lease</u> Jay Michael Myers Gastar Exploration USA, Inc. Stone Energy Corporation EQT Production Company	Gastar Exploration USA, Inc. Stone Energy Corporation EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment	103A/0277 152A/0521 183A/0305 230A/0783
<u>9: Priscilla M. Grimm Lease</u> Priscilla M. Grimm	Antero Resources Corporation	1/8+	306A/0195
<u>10: Midwest Energy, Inc. Lease</u> Midwest Energy, Inc.	Antero Resources Corporation	1/8+	297A/0395
<u>14: Michael J. Scyoc Lease</u> Michael J. Scyoc	Antero Resources Corporation		337A/0893
<u>12: Michael L. Benedum Lease</u> Michael L. Benedum	Antero Resources Corporation	1/8+	327A/0199

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>11: T.H. Alley, et ux Lease</u>			
T.H. Alley et ux	L.G. Robinson	1/8	0048/0572
L.G. Robinson	Tri-State Gas Company	Assignment	0059/0415
Tri-State Gas Company	South Penn Oil Company	Assignment	0073/0185
South Penn Oil Company	Hope Natural Gas Company	Assignment	138A/0641
Hope Natural Gas Company	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	076A/0232
Eastern States Oil & Gas Inc	Equitable Production - Eastern States Inc	Name Change	0013/0014
Equitable Production - Eastern States Inc	Equitable Production Company	Name Change	0013/0014
Equitable Production Company	EQT Production Company	Name Change	0013/0014
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
<u>13: WVDNR Lease</u>			
WVDNR	Antero Resources Corporation	1/8+	323A/0541
<u>17: Three Rivers Royalty II, LLC Lease</u>			
Three Rivers Royalty II, LLC	CNX Gas Company, LLC	1/8+	293A/0373
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	343A/0487
<u>18: CSX Transportation Lease</u>			
CSX Transportation	Antero Resources Corporation	1/8+	372A/0324
<u>16: Three Rivers Royalty II, LLC Lease</u>			
Three Rivers Royalty II, LLC	Antero Resources Corporation	1/8+	344A/0328
<u>19: Bryan A. Sell & Danica D. Brown Lease</u>			
Bryan A. Sell & Danica D. Brown	Antero Resources Corporation	1/8+	377A/0889
<u>16: Three Rivers Royalty II, LLC Lease</u>			
Three Rivers Royalty II, LLC	Antero Resources Corporation	1/8+	344A/0328
<u>27: James Stewart & Molly Bucher Lease</u>			
James Stewart & Molly Bucher	Antero Resources Corporation	1/8+	317A/0666
<u>28: P&P Fujimo LLC Lease</u>			
P&P Fujimo LLC	Antero Resources Corporation	1/8+	313A/0566
<u>34: Timothy L. Wilcox Lease</u>			
Timothy L. Wilcox	Antero Resources Corporation	1/8+	325A/0854
<u>35: Michael A. Neff Lease</u>			
Michael A. Neff	Antero Resources Corporation	1/8+	349A/0797
<u>40: Robert V. Long & Brenda J. Martin Lease</u>			
Robert V. Long & Brenda J. Martin	Antero Resources Corporation	1/8+	344A/0797

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>41: Perves Hai Lease</u> Perves Hai	Antero Resources Corporation	1/8+	372A/0528
<u>47: Michael S. Hornbeck Lease</u> Michael S. Hornbeck	Antero Resources Corporation	1/8+	361A/0403
<u>52: Donald Ray & Donald Ray II Black Lease</u> Donald Ray & Donald Ray II Black	Antero Resources Corporation	1/8+	349A/0692
<u>55: Antero Minerals, LLC Lease</u> Antero Minerals, LLC	Antero Resources Corporation	1/8+	292A/0795
<u>59: Kevin Goff Lease</u> Kevin Goff SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	360A/0473 366A/0943
<u>60: Clay D.C. Dallison & Cody Duane Dallison Lease</u> Clay D.C. Dallison & Cody Duane Dallison	Antero Resources Corporations	1/8+	330A/0505
<u>59: Kevin Goff Lease</u> Kevin Goff SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	360A/0473 366A/0943
<u>63: Kevin Goff Lease</u> Kevin Goff SEP Exploration	SEP Exploration Antero Resources Corporation	1/8+ Agreement	360A/0473 366A/0943
<u>62: Chesapeake Appalachia, LLC Lease</u> Chesapeake Appalachia, LLC SWN Production Company, LLC Antero Exchange Properties, LLC	SWN Production Company, LLC Antero Exchange Properties, LLC Antero Resources Corporation	1/8 Assignment Merger	157A/0634 177A/0533 0013/0311
<u>13: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	323A/0541
<u>65: Sarah C. Oliver, et al Lease</u> Sarah C. Oliver, et al Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Dominion Transmission Inc Consol Energy Holdings LLC Consol Gas Company CNX Gas Company LLC	Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Dominion Transmission Inc Consol Energy Holdings LLC Consol Gas Company CNX Gas Company LLC Antero Resources Corporation	Assignment Assignment Assignment Name Change Name Change Conveyance Merger Merger 1/8+	0117/0279 0233/0387 0311/0184 0013/0151 0013/0158 0422/0465 0013/0114 0096/0307 343A/0498
<u>18: CSX Transportation Lease</u> CSX Transportation	Antero Resources Corporation	1/8+	372A/0324

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
65: Sarah C. Oliver, et al Lease Sarah C. Oliver, et al Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Dominion Transmission Inc Consol Energy Holdings LLC Consol Gas Company CNX Gas Company LLC	Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Dominion Transmission Inc Consol Energy Holdings LLC Consol Gas Company CNX Gas Company LLC Antero Resources Corporation	Assignment Assignment Assignment Name Change Name Change Conveyance Merger Merger 1/8+	0117/0279 0233/0387 0311/0184 0013/0151 0013/0158 0422/0465 0013/0114 0096/0307 343A/0498
66: Mary Louise Wacker Lease Mary Louise Wacker	Antero Resources Corporation	1/8+	357A/0269
67: Raymond P. & Pamela J. Gaston Lease Raymond P. & Pamela J. Gaston	Antero Resources Corporation	1/8+	317A/0820
65: Sarah C. Oliver, et al Lease Sarah C. Oliver, et al Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Dominion Transmission Inc Consol Energy Holdings LLC Consol Gas Company CNX Gas Company LLC	Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Dominion Transmission Inc Consol Energy Holdings LLC Consol Gas Company CNX Gas Company LLC Antero Resources Corporation	Assignment Assignment Assignment Name Change Name Change Conveyance Merger Merger 1/8+	0117/0279 0233/0387 0311/0184 0013/0151 0013/0158 0422/0465 0013/0114 0096/0307 343A/0498
68: CNX Gas Company, LLC Lease CNX Gas Company, LLC	Antero Resources Corporation	1/8+	343A/0498
69: Kimble White, et al Lease Kimble White, et al Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CONSOL Gas Company CNX Gas Company, LLC	Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CONSOL Gas Company CNX Gas Company, LLC Antero Resources Corporation	1/8 Conveyance Conveyance Name Change Merger Merger Assignment	0126/0216 0233/0387 0311/0184 0013/0151 0013/0114 0096/0307 365A/0129
13: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	323A/0541
18: CSX Transportation Lease CSX Transportation	Antero Resources Corporation	1/8+	372A/0324
70: H3, LLC Lease H3, LLC	Antero Resources Corporation	1/8+	347A/0174

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
71: A.J. Witcherman, et al Lease			
A.J. Witcherman, et al	Hope Natural Gas Company	1/8	0107/0420
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Transmission Corporation	CNG Transmission Corporation	Merge	0013/0151
CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	076A/0232
Eastern States Oil & Gas Inc	Equitable Production Eastern States Inc	Name Change	0013/0014
Equitable Production Eastern States Inc	Equitable Production Company	Name Change	0013/0014
Equitable Production Company	EQT Production Company	Name Change	0013/0014
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
72: Blackrock Enterprises, LLC Lease			
Blackrock Enterprises, LLC	Antero Resources Corporation	1/8+	294A/0040

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*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.

*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

**Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
75: <u>EQT Production Company Lease</u>	EQT Production Company	Antero Resources Corporation	1/8+	230A/0877

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**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 Vice President of Land



August 5, 2024

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Mr. Taylor Brewer
601 57th 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 modification for approved well on the existing Galmish Pad: Teocalli Unit 1H (47-103-03659) Expedited.

Attached you will find the following:

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

4032651
6/13/24
\$ 7500

If you have any questions please feel free to contact me at (303) 357-6959.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink that reads "S Gaspar".

Stefan Gaspar
Permitting Agent
Antero Resources Corporation

Enclosures

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08/30/2024