



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

Wednesday, December 18, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Tennessee Unit 2H
47-095-02903-00-00

Extended lateral length

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: Tennessee Unit 1H
Farm Name: Antero Resources Corporation
U.S. WELL NUMBER: 47-095-02903-00-00
Horizontal 6A New Drill
Date Modification Issued: 12/18/2024

Promoting a healthy environment.

12/20/2024

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

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

2) Operator's Well Number: Tennessee Unit 2H MOD Well Pad Name: Shinn Pad

3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: Badger Run Road

4) Elevation, current ground: 1043' Elevation, proposed post-construction: 1036'

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: 6700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16600' MD

11) Proposed Horizontal Leg Length: 9218.1'

12) Approximate Fresh Water Strata Depths: 328

13) Method to Determine Fresh Water Depths: 47-095-02781

14) Approximate Saltwater Depths: 1440

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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Environmental Protection

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	378	378	CTS, 394 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#	16600	16600	3255 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	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"	12,630	2500	Lead-HPOZ & 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 shallow well and complete Marcellus Shale.

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): 38.08 acres

22) Area to be disturbed for well pad only, less access road (acres): 16.29 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 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.

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12/20/2024
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(a) If Yes, provide Mine Info: Name: _____

CK # 4036829 Depth: _____

7500⁰⁰ Seam: _____

Owner: _____

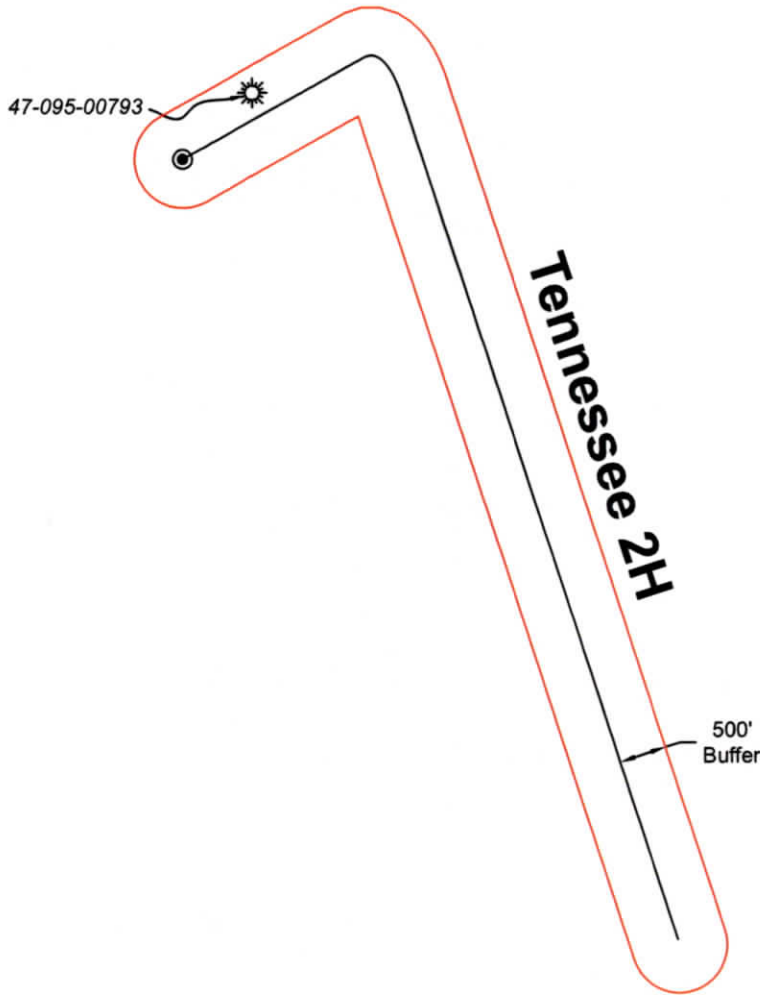
11/12/2024

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



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: November 25, 2024
SURVEYED: Dec. 2016	PROJECT NO: 163-54-L-23
FIELD CREW: C.L., K.M.	SHEET 1 of 1 DRAWING NO: Tennessee 2H BHL MOD AOR

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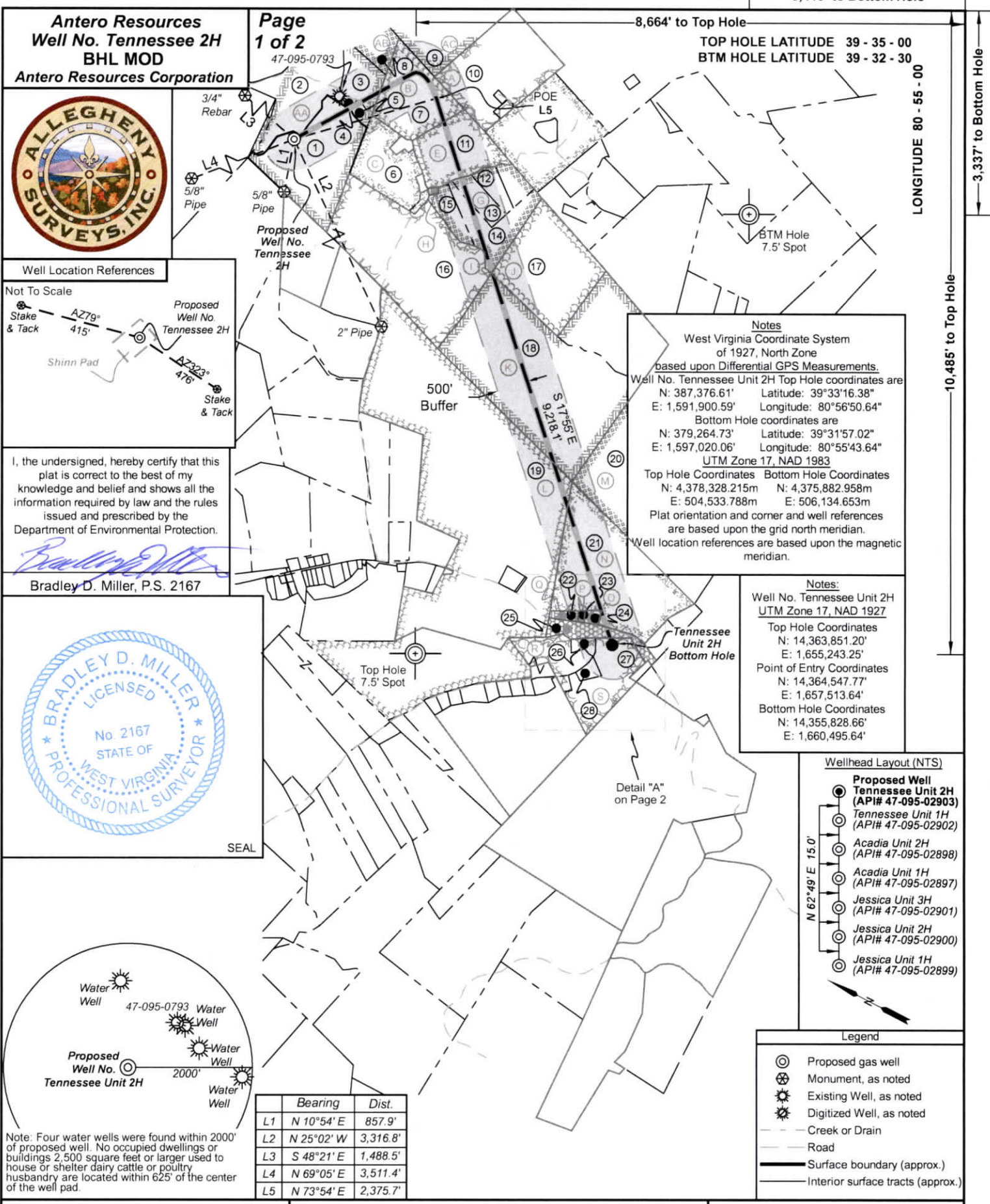
WV Department of
 Environmental Protection



Scale: 1 inch = 2000 feet

UWI (API Num)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095007930000	HEINTZMAN RAYMOND B	1	PIN OAK OPERATING LLC	CARTER JONES LUMBER	3,407	2641 - 3256	Fifth, Warren First	Alexander, Weir, Berea, Warren

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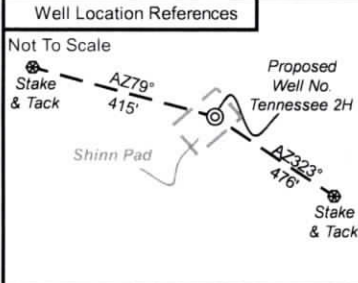
Antero Resources
Well No. Tennessee 2H
BHL MOD
Antero Resources Corporation

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3/4" Rebar
 5/8" Pipe
 5/8" Pipe
 Proposed Well No. Tennessee 2H
 2" Pipe

8,664' to Top Hole
 TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30
 LONGITUDE 80 - 55 - 00



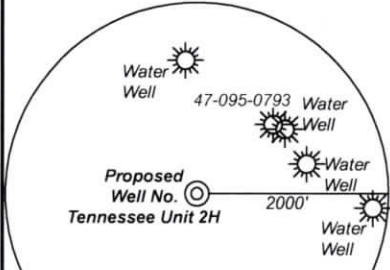
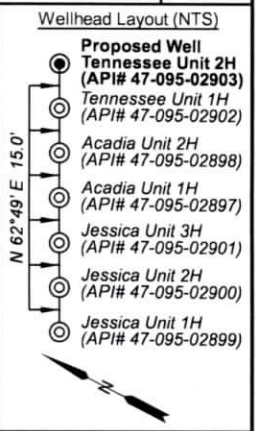
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

Bradley D. Miller, P.S. 2167

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Tennessee Unit 2H Top Hole coordinates are
 N: 387,376.61' Latitude: 39°33'16.38"
 E: 1,591,900.59' Longitude: 80°56'50.64"
 Bottom Hole coordinates are
 N: 379,264.73' Latitude: 39°31'57.02"
 E: 1,597,020.06' Longitude: 80°55'43.64"
 UTM Zone 17, NAD 1983
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 N: 4,378,328.215m N: 4,375,882.958m
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 N: 14,364,547.77'
 E: 1,657,513.64'
 Bottom Hole Coordinates
 N: 14,355,828.66'
 E: 1,660,495.64'



	Bearing	Dist.
L1	N 10°54' E	857.9'
L2	N 25°02' W	3,316.8'
L3	S 48°21' E	1,488.5'
L4	N 69°05' E	3,511.4'
L5	N 73°54' E	2,375.7'

Note: Four 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
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

FILE NO: 163-54-L-23
 DRAWING NO: Tennessee Unit 2H BHL MOD
 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: November 6 2024
 OPERATOR'S WELL NO. Tennessee Unit 2H
 API WELL NO
 47 - 095 - 02903
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Proposed Grade 1,036' Existing Grade 1,043' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
 DISTRICT: Lincoln COUNTY: Tyler **12/20/2024**
 SURFACE OWNER: Antero Resources Corporation ACREAGE: 52.51
 ROYALTY OWNER: Raymond B. Heintzman, et ux LEASE NO: ACREAGE: 100
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 6,700' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,600' MD

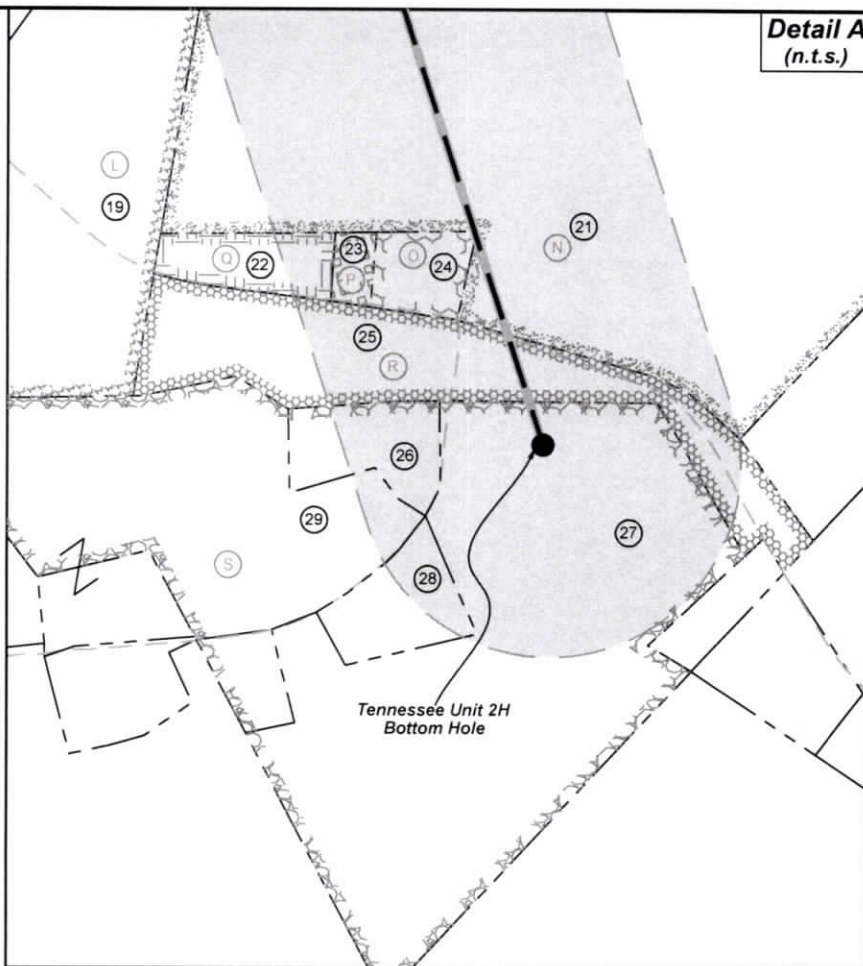
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

Antero Resources
Well No. Tennessee 2H
BHL MOD
Antero Resources Corporation



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Detail A
(n.t.s.)



ID	TM-Par	Owner	Bk/Pg	Acres
1	8-21.2	Antero Resources Corporation	296/494	35.52
2	8-21	Antero Resources Corporation	296/490	52.51
3	8-21.1	Justin P. & Stephanie M. Richards	411/189	11.24
4	8-21.3	Adam Nathaniel Wayne	236/556	0.79
5	8-21.4	Jodie E. Michael	373/544	1.78
6	8-22	David E. & Ila Grace Kyle	270/206	24.63
7	8-23	Elden Jackson & Jennifer Lynn Wryosdick	385/343	30.00
8	8-12	Donna Kathy Johnston	184/133	86.89
9	8-13	Donna Kathy Johnston	184/133	50.00
10	8-24	Theresa J. Drain	428/607	48.38
11	8-27	Sharon M. Jeffrey Darrin Deaton	349/176	24.65
12	8-30.1	Rada Ann Weekley	WB30/516	5.01
13	8-30.3	Jonathan & Coy Moffit	262/272	6.77
14	8-30.2	Neven J. Moffitt	332/25	16.38
15	8-30	Neven J. Moffitt	644/625	6.27
16	8-41	David E. & Ila Grace Kyle	272/189	118.10
17	9-22	G.R. Meckley Family Trust	OR50/28	43.75
18	8-61	G.R. Meckley Family Trust	OR50/28	106.51
19	12-71	Shaun M. & Carrie A. Meckley	393/423	266.33
20	13-1	G.R. Meckley Family Trust	OR50/28	99.00
21	13-9.6	G.R. Meckley Family Trust	OR50/28	65.48
22	13-10	Richard G. & Nancy S. Lemasters	206/15	1.37
23	13-11	John H. Booher	393/564	0.45
24	13-12	Kevin A. Bliss	324/555	1.20
25	13-22	Deborah L. & David R. Starcher	475/380	7.87
26	13-9.5	Evan Cline	OR80/142	1.97
27	13-9	David A. Starcher	475/378	31.68
28	13-9.1	Bryan Jason & Stafanie Suter	483/807	1.90
29	13-9.3	James P. & Melissa V. Fleisher	284/78	16.03

A	Theresa J. Drain
B	Drilling Appalachian Corporation
C	Bounty Minerals, LLC
E	M. Sharon Deaton
G	Larry A. & Karen B. Wells
H	Neven J. Moffitt
I	Bounty Minerals, LLC
J	Gerald W. Meckley, Jr., et al
K	Arlen Glen Wells, Jr.
L	Lois M. & Billy J. Stern, JTWROS
M	Gerald W. Meckley, Jr., et al
N	Gerald W. Meckley, Jr., et al
O	Kevin A. Bliss
P	John H. & Susan Booher
Q	John Stanley Starkey
R	Deborah L. Starcher
S	Teresa Starcher Burgey
AA	Raymond B. Heintzman, et ux
AB	BRC Appalachian Minerals I, LLC
AC	Bounty Minerals, LLC

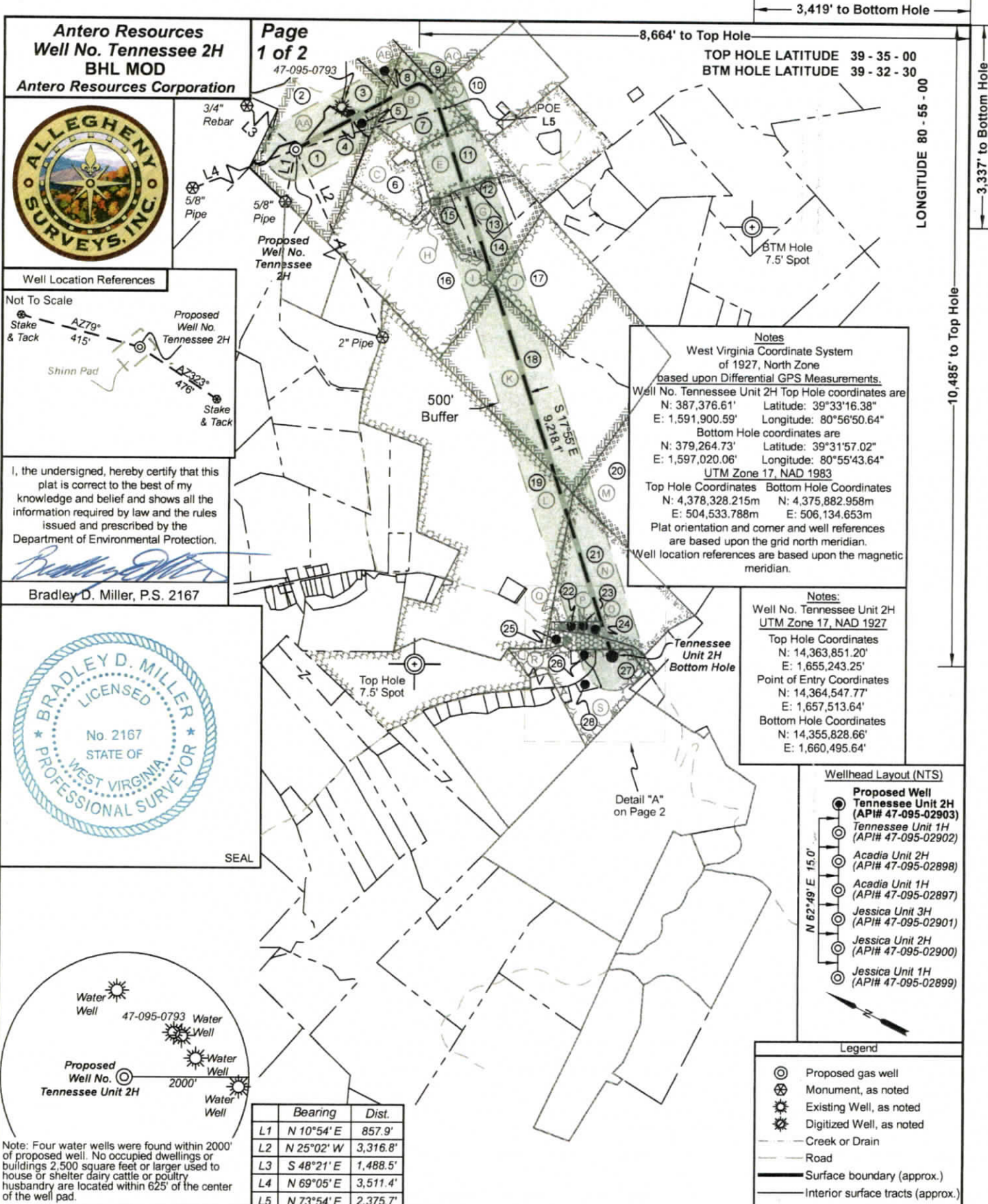
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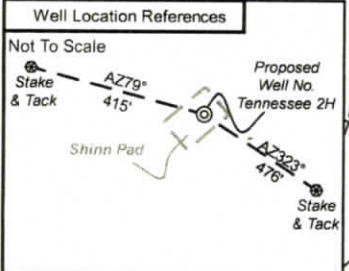
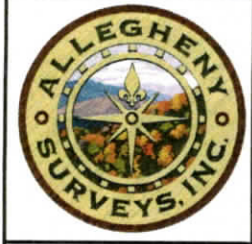
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Antero Resources
Well No. Tennessee 2H
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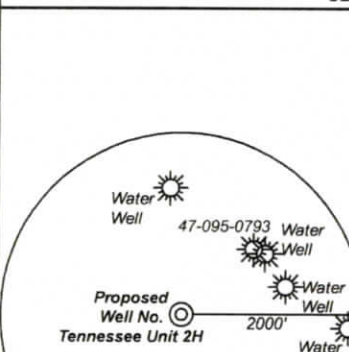
Page
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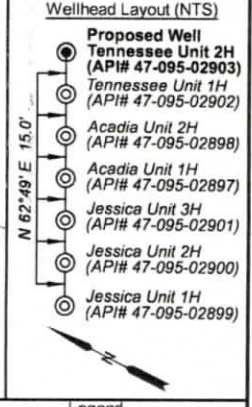
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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: November 6 2024

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API WELL NO

47 - 095 - 02903

STATE COUNTY PERMIT

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DISTRICT: Lincoln COUNTY: Tyler

SURFACE OWNER: Antero Resources Corporation ACREAGE: 52.51

ROYALTY OWNER: Raymond B. Heintzman, et ux LEASE NO: _____ ACREAGE: 2/20/2024

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

Steve Bailey

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
AA: Raymond B. Heintzman, et ux Lease			
Raymond B. Heintzman, et ux	McCombs Conrad & Barrett	1/8	207/136
McCombs Conrad & Barrett	Appalachian Exploration & Development, Inc	Assignment	207/487
Appalachian Exploration & Development, Inc	The Carter-Jones Lumber Company	Assignment	233/563
The Carter-Jones Lumber Company	Applied Mechanics Corporation	Assignment	258/132
Applied Mechanics Corporation	Triad Hunter, LLC	Assignment	385/566
Triad Hunter, LLC	Antero Resources Corporation	Assignment	496/776
B: Drilling Appalachian Corporation Lease			
Drilling Appalachian Corporation	Antero Resources Corporation	1/8+	296/19
E: M. Sharon Deaton Lease			
M. Sharon Deaton	Antero Resources Corporation	1/8+	197/208
G: Larry A. & Karen B. Wells Lease			
Larry A. & Karen B. Wells	Antero Resources Corporation	1/8+	220/613
I: Bounty Minerals, LLC Lease			
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	301/448
G: Larry A. & Karen B. Wells Lease			
Larry A. & Karen B. Wells	Antero Resources Corporation	1/8+	220/613
J: Gerald W. Meckley, Jr., et al Lease			
Gerald W. Meckley, Jr., et al	Triad Hunter LLC	1/8+	409/514
Triad Hunter LLC	Blue Ridge Mountain Resources, Inc	Merger	104/354
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Merger	104/357
Eclipse Resources I, LP	SWN Production, LLC	Name Change	WVSOS
SWN Production, LLC	Antero Resources Corporation	Assignment	235/291
K: Arlen Glen Wells, Jr Lease			
Arlen Glen Wells, Jr	Antero Resources Corporation	1/8+	211/509
L: Lois M. & Billy J. Stern, JTWROS Lease			
Lois M. & Billy J. Stern, JTWROS	Antero Resources Corporation	1/8+	324/268
N: Gerald W. Meckley, Jr, et al Lease			
Gerald W. Meckley, Jr., et al	Triad Hunter LLC	1/8+	409/514
Triad Hunter LLC	Blue Ridge Mountain Resources, Inc	Merger	104/354
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Merger	104/357
Eclipse Resources I, LP	SWN Production, LLC	Name Change	WVSOS
SWN Production, LLC	Antero Resources Corporation	Assignment	235/291
O: Kevin A. Bliss Lease			
Kevin A. Bliss	Triad Hunter, LLC	1/8	634/195
Triad Hunter, LLC	Blue Ridge Mountain Resources, Inc	Merger	104/354
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Merger	104/357
Eclipse Resources I, LP	SWN Production, LLC	Name Change	WVSOS
SWN Production, LLC	Antero Resources Corporation	Assignment	Pooled Tract

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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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>N: Gerald W. Meckley, Jr., et al Lease</u>			
Gerald W. Meckley, Jr., et al	Triad Hunter LLC	1/8+	409/514
Triad Hunter LLC	Blue Ridge Mountain Resources, Inc	Merger	104/354
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Merger	104/357
Eclipse Resources I, LP	SWN Production, LLC	Name Change	WVSOS
SWN Production, LLC	Antero Resources Corporation	Assignment	235/291
<u>R: Deborah L. Starcher Lease</u>			
Deborah L. Starcher	Antero Resources Corporation	1/8+	323/339

*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.

***Cotenancy 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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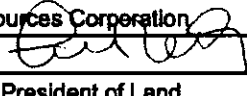
Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>St. Teresa Starcher Burgoy Lease</u>	Teresa Starcher Burgoy	Antero Resources Corporation	1/8+	631/517

**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

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