

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

Company Name: Antero Resources Corporation
API No: 47-095-02903 County: Tyler
District: Lincoln Well No: Tennessee Unit 2H
Farm Name: Antero Resources Corporation
Discharge Date/s From: (MMDDYY) 4/18/2025 To: (MMDDYY) 5/18/2025
Discharge Times. From: 0:00 To: 24:00
Total Volume to be Disposed from this facility (gallons): 1,682,207

Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: 0 (Include a topographical map of the Area.)
(2) UIC: 0 Permit No. _____
(3) Offsite Disposal: 0 Site Location: _____
(4) Reuse: 1,682,207 Alternate Permit Number: _____
(5) Centralized Facility: 0 Permit No. _____
(6) Other method: 0 (Include an explanation)

Follow Instructions below to determine your treatment category:

Optional Pretreatment test: N/A Cl- mg/l N/A DO mg/l

1. Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) N/A If yes, who? _____ and place a four (4) on line 7.
If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) N/A If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value pretreatment (see above)? (Y/N) N/A If yes, go to line 4
If not, go to line 5.
4. Is the Chloride level less than 5000 mg/l? (Y/N) N/A If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) N/A If yes, go to line 6
If not, enter a three (3) in line 7.
6. Is the DO level greater than 2.5 mg/l? (Y/N) N/A If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. N/A is the category of your pit. Use the Appropriate section.

8. Comments on Pit condition: _____

N/A NO PIT ON SITE

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Name of Principal Exec. Officer: Gretchen Kohler
Title of Officer: Director of Environmental and Regulatory Compliance
Date Completed: 7/7/2025

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Gretchen Kohler

Signature of a Principal Exec. Officer or Authorized agent.

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Category 1
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

*** Al is only reported if the pH is above 9.0

Category 2
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0

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Category 3
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
Total Al***			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Disposal Area			Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0.

Category 4
Sampling Results
API No: _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Activated Carbon (0.175)			N/A	N/A	lb/Bt
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area			Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): SMG

Date: 9-10-23

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State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-095-02903 County Tyler District Lincoln
Quad Paden City Pad Name Shinn Pad Field/Pool Name -----
Farm name Antero Resources Corporation Well Number Tennessee Unit 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4378328.311m Easting 504533.921m
Landing Point of Curve Northing 4378255.11m Easting 505307.02m
Bottom Hole Northing 4375886.167m Easting 506139.421m

Elevation (ft) 1036' GL Type of Well ☒ New ☐ Existing Type of Report ☐ Interim ☒ Final
Permit Type ☐ Deviated ☐ Horizontal ☒ Horizontal 6A ☐ Vertical Depth Type ☐ Deep ☒ Shallow
Type of Operation ☐ Convert ☐ Deepen ☒ Drill ☐ Plug Back ☐ Redrilling ☐ Rework ☒ Stimulate
Well Type ☐ Brine Disposal ☐ CBM ☒ Gas ☒ Oil ☐ Secondary Recovery ☐ Solution Mining ☐ Storage ☐ Other _____
Type of Completion ☒ Single ☐ Multiple Fluids Produced ☐ Brine ☒ Gas ☐ NGL ☒ Oil ☐ Other _____
Drilled with ☐ Cable ☒ Rotary

Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine
Production hole ☐ Air ☒ Mud ☐ Fresh Water ☐ Brine
Mud Type(s) and Additive(s)
Air - Foam & 4% KCL
Mud - Polymer

Date permit issued 10/28/2024 Date drilling commenced 11/15/2024 Date drilling ceased 12/28/2024
Date completion activities began 2/21/2025 Date completion activities ceased 4/15/2025
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 328' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1440' Void(s) encountered (Y/N) depths No
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

09/26/2025

API 47- 095 - 02903 Farm name Antero Resources Corporation Well number Tennessee Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	28"	20"	130'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	465'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3293'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	16109'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6703'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	190 sx	15.6	1.18	224	0'	8 Hrs.
Surface	Class C	395 sx	15.8	1.17	462	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1155 sx	15.8	1.15	1328	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4265 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.77 (Lead), 1.31 (Tail)	5587	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 16109' MD, 6312' TVD (BHL), 6312' (Deepest Point Drilled) Loggers TD (ft) ' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5895'

Check all wireline logs run ☐ caliper ☐ density ☐ deviated/directional ☐ induction
☐ neutron ☐ resistivity ☐ gamma ray ☐ temperature ☐ sonic

Well cored ☐ Yes ☒ No Conventional ☐ Sidewall Were cuttings collected ☐ Yes ☒ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS _____

WERE TRACERS USED ☐ Yes ☒ No TYPE OF TRACER(S) USED N/A

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API 47-095 - 02903 Farm name Antero Resources Corporation Well number Tennessee Unit 2H

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

***PLEASE SEE ATTACHED EXHIBIT 1**

[illegible]

STIMULATION INFORMATION PER STAGE

[illegible]

***PLEASE SEE ATTACHED EXHIBIT 2**

[illegible]

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Farm name Antero Resources Corporation Well number Tennessee Unit 2H

DEPTHS

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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***PLEASE SEE ATTACHED EXHIBIT 3**

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Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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API 47-095-02903 Farm Name Antero Resources Corporation Well Number Tennessee Unit 2H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/21/2025	16053.20	16038.30	60	Marcellus
2	2/21/2025	16000.06	15836.84	60	Marcellus
3	2/21/2025	15801.79	15638.57	60	Marcellus
4	2/21/2025	15603.53	15440.31	60	Marcellus
5	2/21/2025	15405.27	15242.05	60	Marcellus
6	2/21/2025	15207.00	15043.78	60	Marcellus
7	2/22/2025	15008.74	14845.52	60	Marcellus
8	2/22/2025	14810.48	14647.26	60	Marcellus
9	2/22/2025	14612.21	14449.00	60	Marcellus
10	2/22/2025	14413.95	14250.73	60	Marcellus
11	2/22/2025	14215.69	14052.47	60	Marcellus
12	2/22/2025	14017.43	13854.21	60	Marcellus
13	2/23/2025	13819.16	13655.94	60	Marcellus
14	2/23/2025	13620.90	13457.68	60	Marcellus
15	2/23/2025	13422.64	13259.42	60	Marcellus
16	2/23/2025	13224.37	13061.15	60	Marcellus
17	2/23/2025	13026.11	12862.89	60	Marcellus
18	2/23/2025	12827.85	12664.63	60	Marcellus
19	2/24/2025	12629.58	12466.37	60	Marcellus
20	2/24/2025	12431.32	12268.10	60	Marcellus
21	2/24/2025	12233.06	12069.84	60	Marcellus
22	2/24/2025	12034.80	11871.58	60	Marcellus
23	2/24/2025	11836.53	11673.31	60	Marcellus
24	2/24/2025	11638.27	11475.05	60	Marcellus
25	2/25/2025	11440.01	11276.79	60	Marcellus
26	2/25/2025	11241.74	11078.52	60	Marcellus
27	2/25/2025	11043.48	10880.26	60	Marcellus
28	2/25/2025	10845.22	10682.00	60	Marcellus
29	2/25/2025	10646.95	10483.73	60	Marcellus
30	2/25/2025	10448.69	10285.47	60	Marcellus
31	2/25/2025	10250.43	10087.21	60	Marcellus
32	2/26/2025	10052.16	9888.95	60	Marcellus
33	2/26/2025	9853.90	9690.68	60	Marcellus
34	2/26/2025	9655.64	9492.42	60	Marcellus
35	2/26/2025	9457.38	9294.16	60	Marcellus
36	2/26/2025	9259.11	9095.89	60	Marcellus
37	2/26/2025	9060.85	8897.63	60	Marcellus
38	2/26/2025	8862.59	8699.37	60	Marcellus
39	2/27/2025	8664.32	8501.10	60	Marcellus
40	2/27/2025	8466.06	8302.84	60	Marcellus
41	2/27/2025	8267.80	8104.58	60	Marcellus
42	2/27/2025	8069.53	7906.32	60	Marcellus
43	2/27/2025	7871.27	7708.05	60	Marcellus
44	2/27/2025	7673.01	7509.79	60	Marcellus
45	2/28/2025	7474.75	7311.53	60	Marcellus
46	2/28/2025	7276.48	7113.26	60	Marcellus
47	2/28/2025	7078.22	6915.00	60	Marcellus

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API 47-095-02903 Farm Name Antero Resources Corporation Well Number Tennessee Unit 2H

EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	2/21/2025	97.3	9669	6817	4102	114880	4410	N/A
2	2/21/2025	95.2	9396	7003	4444	400600	7260	N/A
3	2/21/2025	97.0	9619	6151	3597	399750	7109	N/A
4	2/21/2025	97.4	9785	6458	4325	399280	6956	N/A
5	2/21/2025	97.8	9825	6657	3590	393360	7306	N/A
6	2/21/2025	98.0	9443	5916	4058	391780	6917	N/A
7	2/22/2025	96.5	9608	8199	4583	400500	6992	N/A
8	2/22/2025	98.1	9608	7718	4491	398710	7746	N/A
9	2/22/2025	71.7	8110	5648	4961	404960	9109	N/A
10	2/22/2025	98.4	9368	5643	4379	393440	6928	N/A
11	2/22/2025	99.4	9270	7493	4251	397180	6960	N/A
12	2/22/2025	97.8	9247	6214	3923	405940	7041	N/A
13	2/23/2025	98.7	9210	6259	4107	399060	6927	N/A
14	2/23/2025	72.0	9208	6282	4487	402160	8530	N/A
15	2/23/2025	94.7	8688	3961	3877	398380	7035	N/A
16	2/23/2025	96.6	8775	4869	4188	397400	6901	N/A
17	2/23/2025	98.7	8588	8365	4386	396160	6903	N/A
18	2/23/2025	98.5	8665	7819	4332	396500	6874	N/A
19	2/24/2025	98.8	8971	6461	3981	399200	6960	N/A
20	2/24/2025	95.9	8886	6252	4400	403780	6955	N/A
21	2/24/2025	96.2	8491	5539	4359	397880	6824	N/A
22	2/24/2025	96.7	8708	6896	4062	405000	6941	N/A
23	2/24/2025	97.0	8747	7425	3974	396840	6918	N/A
24	2/24/2025	76.5	9469	8043	4766	398740	9953	N/A
25	2/25/2025	95.1	8523	7746	4495	396760	7097	N/A
26	2/25/2025	95.9	8315	7085	4225	403860	6925	N/A
27	2/25/2025	97.2	8359	6145	4305	396780	6871	N/A
28	2/25/2025	96.1	8412	6340	4436	397940	6849	N/A
29	2/25/2025	95.6	8146	7439	4242	398040	6797	N/A
30	2/25/2025	94.9	8402	7078	4117	398260	6786	N/A
31	2/25/2025	95.4	7900	6168	4094	398960	6782	N/A
32	2/26/2025	95.6	7633	5793	3853	397780	6828	N/A
33	2/26/2025	94.7	7842	7125	3672	397020	6709	N/A
34	2/26/2025	94.8	7788	6710	3888	396960	6739	N/A
35	2/26/2025	95.4	7798	6268	4017	403920	6870	N/A
36	2/26/2025	97.6	7578	5951	4097	391420	6666	N/A
37	2/26/2025	97.8	7491	6651	4197	399400	6948	N/A
38	2/26/2025	98.8	7456	6782	4131	407540	6918	N/A
39	2/27/2025	96.1	7280	6851	4327	394040	6664	N/A
40	2/27/2025	98.8	7294	7019	4053	398100	6670	N/A
41	2/27/2025	98.4	7141	5713	4389	401180	6742	N/A
42	2/27/2025	97.7	7408	6817	4356	397040	6720	N/A
43	2/27/2025	96.1	7269	7354	3993	398660	6822	N/A
44	2/27/2025	94.8	7144	7532	4213	396980	6781	N/A
45	2/28/2025	95.9	6872	4410	3907	402800	6902	N/A
46	2/28/2025	95.4	7369	5986	4187	400820	6722	N/A
47	2/28/2025	96.5	6775	4242	3581	403320	6834	N/A
	AVERAGE	95	8,416	6,538	4,179	18,469,060	329,097	TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
CMT, occ siltstone	434	470	434	470
Shaly Siltstone, occ cmt	470	520	470	520
Shaly Siltstone	520	770	520	770
Sandstone, Siltstone, rr Shale	720	920	720	920
Sandstone, Siltstone	770	920	770	920
Siltstone, Sandstone	920	970	920	970
Sandy Siltstone	970	1,320	970	1,320
Siltstone, Sandstone	1,320	1,570	1,320	1,570
Silty Sandstone	1,570	1,620	1,570	1,620
Sandstone	1,620	1,670	1,620	1,670
Silty Sandstone	1,670	1,770	1,670	1,770
Sandstone	1,770	1,820	1,770	1,820
Limestone, tr SS, tr SLTST	1,820	1,787	1,820	1,873
Big Lime	1,817	2,282	1,873	2,421
Fifty Foot Sandstone	2,282	2,718	2,391	2,900
Gordon	2,718	2,887	2,870	3,086
Fifth Sandstone	2,887	3,170	3,056	3,400
Bayard	3,170	3,848	3,370	4,157
Speechley	3,848	4,134	4,127	4,474
Balltown	4,134	4,572	4,444	4,958
Bradford	4,572	4,869	4,928	5,290
Benson	4,869	5,091	5,260	5,535
Alexander	5,091	6,063	5,505	6,666
Sycamore	5,932	6,033	6,490	6,636
Middlesex	6,033	6,114	6,636	6,789
Burkett	6,114	6,143	6,789	6,863
Marcellus	6,143	NA	6,863	NA

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	02/21/2025
Job End Date:	02/28/2025
State:	West Virginia
County:	Tyler
API Number:	47-095-02903-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Tennessee UNIT 2H
Latitude:	39.554633
Longitude:	-80.947231
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6269
Total Base Water Volume (gal)*:	14359800
Total Base Non Water Volume:	0



Water Source	Percent
Groundwater, < 1000TDS	100.00%

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
100 mesh sand	NexTier Completions Solutions	Propping Agent					
15% HCl	Tarquin	Acid					
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor					
Fincide GQ 12A	NexTier Completions Solutions	Biocide					
NGA-14	NexTier Completions Solutions	Gelling Agent					
Other Chemical(s)	Listed Above	See Trade Name(s)					
StimBreak Encap APB LT	NexTier Completions Solutions	Breaker					
ViscStim 300CE-113	NexTier Completions	Friction Reducer					

RECEIVED
Office of Oil and Gas
JUL 30 2025
WV Department of
Environmental Protection

09/26/2025

	Solutions						
Water	Operator	Carrier Fluid					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	86.20948	
			Crystalline Silica	14808-60-7	99.90000	13.32296	
			Water	7732-18-5	85.00000	0.29396	
			Hydrochloric Acid	7647-01-0	15.00000	0.05188	
			Distillates (Petroleum), Hydrotreated Light	64742-47-8	50.00000	0.02313	
			Chemplex-Polymer-00019	Proprietary	40.00000	0.02095	
			Isoalkanes	6742-47-8	30.00000	0.01571	
			Aluminum Oxide	1344-28-1	0.10000	0.01334	
			Chemplex-surfactant-00015	Proprietary	5.00000	0.00262	
			Glutaraldehyde	111-30-8	30.00000	0.00261	
			Bentonite	1302-78-9	5.00000	0.00231	
			Alkoxylated Isodecyl Alcohol	154518-36-2	5.00000	0.00231	
			Chemplex-surfactant-00021	Proprietary	3.00000	0.00157	
			Ammonium Persulfate	7727-54-0	90.00000	0.00066	
			Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	5.00000	0.00044	
			1-Decanaminium, N-decyl-N,N-dimethyl-,chloride	7173-51-5	5.00000	0.00044	
			Ethylene glycol	107-21-1	45.00000	0.00015	
			Glycol Ether EB	111-76-2	45.00000	0.00015	
			N,N-Dimethylformamide	68-12-2	20.00000	0.00007	
			Tar bases,quinoline derivs.,benzyl chloride-quaternized	72480-70-7	20.00000	0.00007	
			Water	7732-18-5	15.00000	0.00005	
			Cinnamaldehyde	104-55-2	10.00000	0.00003	
			Nonylphenol ethoxylated	127087-87-0	10.00000	0.00003	
			Alcohols, C6-12	68603-15-6	10.00000	0.00003	

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WV Department of
Environmental Protection

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

09/26/2025

Antero Resources

Well No. Tennessee 2H

As-Drilled

Antero Resources Corporation

Page

1 of 2

47-095-0793

ALLEGHENY

SURVEYS, INC.

Top Hole Coordinates,
As-drilled data, and
information was provided by
Antero Resources
Corporation. Allegheny
Surveys Inc. (ASI) is not
certifying the data and
information provided. ASI is
not responsible for any
errors or inaccuracies with
the data and information
that has been provided.

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, P.S. 2167

3,403' to Bottom Hole

8,664' to Top Hole

TOP HOLE LATITUDE 39 - 35 - 00

BTM HOLE LATITUDE 39 - 32 - 30

LONGITUDE 80 - 55 - 00

3,327' to Bottom Hole

10,484' to Top Hole

Notes

West Virginia Coordinate System
of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Tennessee Unit 2H Top Hole coordinates are
N: 387,376.92' Latitude: 39°33'16.38"
E: 1,591,901.03' Longitude: 80°56'50.63"
Bottom Hole coordinates are
N: 379,275.00' Latitude: 39°31'57.12"
E: 1,597,035.88' Longitude: 80°55'43.44"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,378,328.311m N: 4,375,886.167m
E: 504,533.921m E: 506,139.421m
Plat orientation and corner and well references
are based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.

Notes:
Well No. Tennessee Unit 2H
As-Drilled POE Coordinates
WV Coordinate System
of 1927, North Zone
N: 388,028.12'
E: 1,594,176.78'
Latitude: 39°33'23.18"
Longitude: 80°56'21.71"
UTM Zone 17, NAD 1983
N: 4,378,538.299m
E: 505,223.932m

Wellhead Layout (NTS)

As-Drilled
Tennessee Unit 2H
(API# 47-095-02903)
Tennessee Unit 1H
(API# 47-095-02902)
Acadia Unit 2H
(API# 47-095-02898)
Acadia Unit 1H
(API# 47-095-02897)
Jessica Unit 3H
(API# 47-095-02901)
Jessica Unit 2H
(API# 47-095-02900)
Jessica Unit 1H
(API# 47-095-02899)

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.)

3/4" Rebar

5/8" Pipe

5/8" Pipe

2" Pipe

500' Buffer

Top Hole 7.5' Spot

Bottom Hole

Detail "A" on Page 2

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'

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.

Water Well

47-095-0793

Water Well

Water Well

As-Drilled Well No. Tennessee Unit 2H

2000'

Water Well

FILE NO: 163-54-L-23

DRAWING NO: Tennessee Unit 2H As-Drilled

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: July 28 20 25

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: As-Built 1,036' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City

DISTRICT: Lincoln COUNTY: Tyler 09/26/2025

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) As-Drilled 6,312' TVD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,109' MD

WELL OPERATOR: Antero Resources Corporation

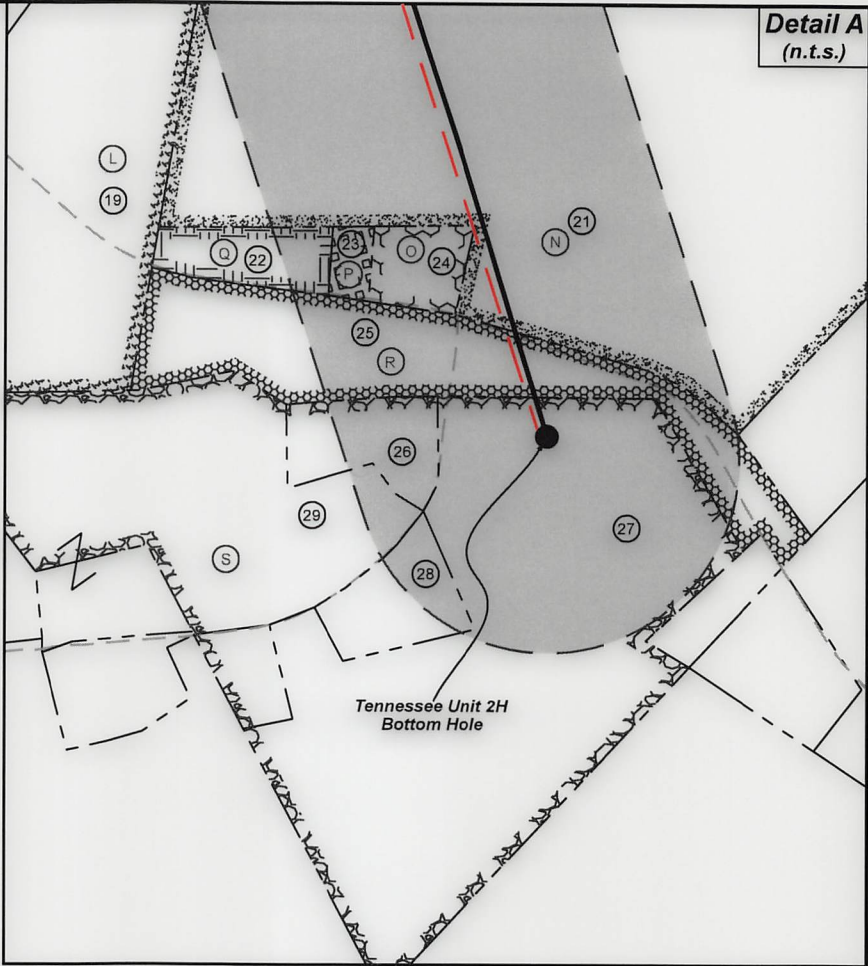
DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street

ADDRESS: 535 White Oaks Blvd.

Denver, CO 80202

Bridgeport, WV 26330



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 Moffitt	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. Flesher	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
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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

FILE NO: 163-54-L-23
DRAWING NO: Tennessee Unit 2H As-Drilled
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: July 28 20 25
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: As-Built 1,036' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
DISTRICT: Lincoln COUNTY: Tyler 09/26/2025
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) As-Drilled 6,312' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,109' MD

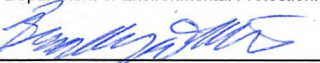
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

Antero Resources
Well No. Tennessee 2H
As-Drilled
Antero Resources Corporation

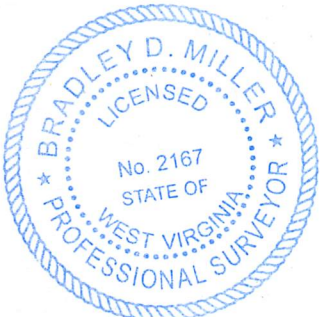


Top Hole Coordinates,
As-drilled data, and
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Antero Resources
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Surveys Inc. (ASI) is not
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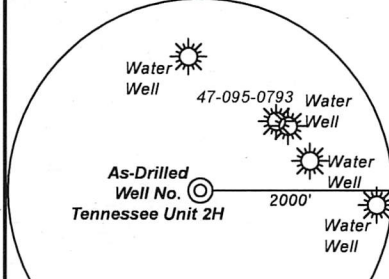
I, the undersigned, hereby certify that this
plat is correct to the best of my
knowledge and belief and shows all the
information required by law and the rules
issued and prescribed by the
Department of Environmental Protection.



Bradley D. Miller, P.S. 2167



SEAL



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.

Page
1 of 2

47-095-0793

3/4" Rebar

5/8" Pipe

5/8" Pipe

2" Pipe

As-Drilled Well No. Tennessee 2H

500' Buffer

Top Hole 7.5' Spot

8,664' to Top Hole

3,403' to Bottom Hole

LONGITUDE 80 - 55 - 00

10,484' to Top Hole

3,327' to Bottom Hole

TOP HOLE LATITUDE 39 - 35 - 00

BTM HOLE LATITUDE 39 - 32 - 30

POE

BTM Hole 7.5' Spot

Notes

West Virginia Coordinate System of 1927, North Zone

based upon Differential GPS Measurements.

Well No. Tennessee Unit 2H Top Hole coordinates are

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E: 1,591,901.03' Longitude: 80°56'50.63"

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N: 379,275.00' Latitude: 39°31'57.12"

E: 1,597,035.88' Longitude: 80°55'43.44"

UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates

N: 4,378,328.311m N: 4,375,886.167m

E: 504,533.921m E: 506,139.421m

Plat orientation and corner and well references are based upon the grid north meridian.

Well location references are based upon the magnetic meridian.

Notes:

Well No. Tennessee Unit 2H

As-Drilled POE Coordinates

WV Coordinate System of 1927, North Zone

N: 388,028.12'

E: 1,594,176.78'

Latitude: 39°33'23.18"

Longitude: 80°56'21.71"

UTM Zone 17, NAD 1983

N: 4,378,538.299m

E: 505,223.932m

Wellhead Layout (NTS)

As-Drilled Tennessee Unit 2H (API# 47-095-02903)

Tennessee Unit 1H (API# 47-095-02902)

Acadia Unit 2H (API# 47-095-02898)

Acadia Unit 1H (API# 47-095-02897)

Jessica Unit 3H (API# 47-095-02901)

Jessica Unit 2H (API# 47-095-02900)

Jessica Unit 1H (API# 47-095-02899)

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.)

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Office of Oil and Gas

JUL 30 2025

WV Department of Environmental Protection

FILE NO: 163-54-L-23

DRAWING NO: Tennessee Unit 2H As-Drilled

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: July 28 20 25

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: As-Built 1,036' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City

DISTRICT: Lincoln COUNTY: Tyler 09/26/2025

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) As-Drilled 6,312' TVD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,109' MD

WELL OPERATOR: Antero Resources Corporation

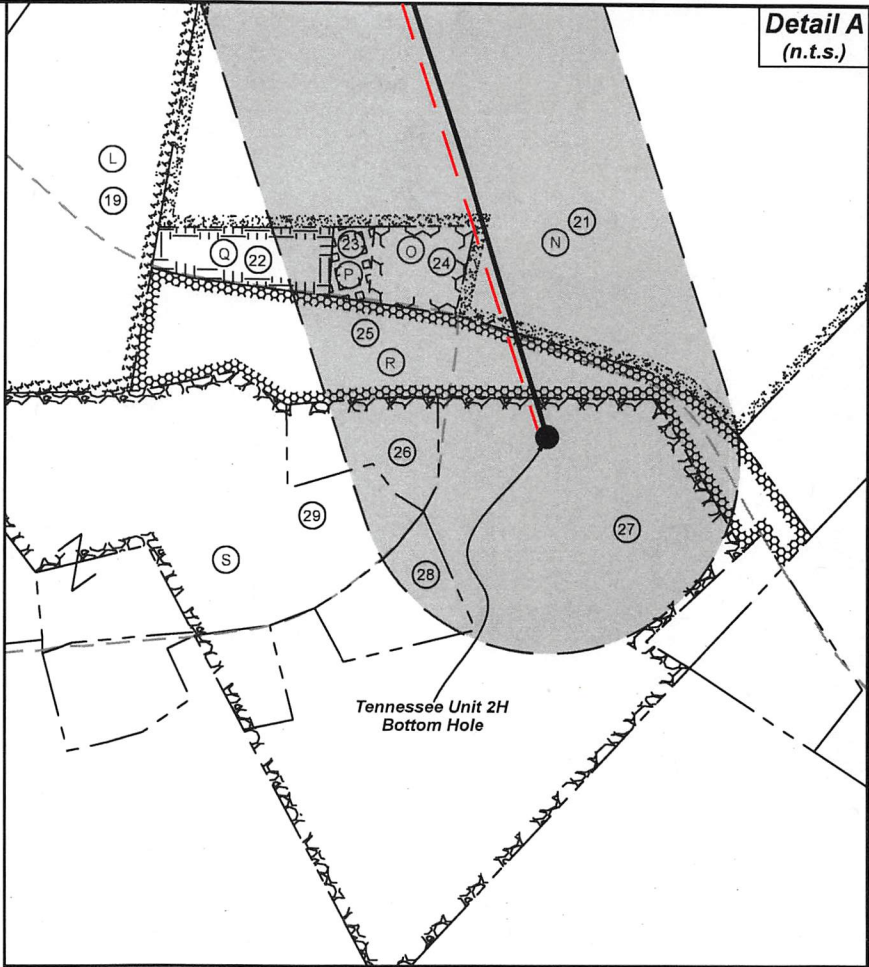
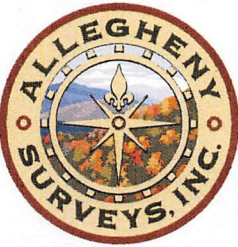
DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street

ADDRESS: 535 White Oaks Blvd.

Denver, CO 80202

Bridgeport, WV 26330



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 Moffitt	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
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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. Flesher	284/78	16.03

RECEIVED
Office of Oil and Gas

JUL 30 2025

WV Department of
Environmental Protection

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
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S	Teresa Starcher Burgey
AA	Raymond B. Heintzman, et ux
AB	BRC Appalachian Minerals I, LLC
AC	Bounty Minerals, LLC

FILE NO: 163-54-L-23

DRAWING NO: Tennessee Unit 2H As-Drilled

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: July 28 20 25

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: As-Built 1,036' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
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☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,109' MD

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