

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

RECEIVED
Office Of Oil and Gas
OCT 08 2024
WV Department of
Environmental Protection

API 47 - 017 - 06963 County Doddridge District West Union
Quad West Union Pad Name Genevieve Field/Pool Name -----
Farm name Antero Resources Corp Well Number Holtz 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 4350481.709m Easting 518828.593m
Landing Point of Curve Northing 4350589.54m Easting 519470.02m
Bottom Hole Northing 4348223.734m Easting 520252.644m

Elevation (ft) 886' 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 9/11/2023 Date drilling commenced 2/5/2024 Date drilling ceased 3/15/2024
Date completion activities began 5/25/2024 Date completion activities ceased 6/23/2024
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 414, 516' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1468' 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

Reviewed by:
APPROVED SK 12-4-24
12/13/2024

API 47-017 - 06963 Farm name Antero Resources Corp Well number Holtz 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"	649'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3441'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15773'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7112'		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	238 sx	15.6	1.18	281	0'	8 Hrs.
Surface	Class C	570 sx	15.8	1.16	661	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1245 sx	15.8	1.15	183	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	2120 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.31 (Tail)	2777	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15773' MD, 6531' TVD (BHL), 6569' (Deepest Point Drilled) Loggers TD (ft) 15773' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5633'

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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

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Department of Environmental Protection

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

APPROVED JZ/13/2024-4

API 47- 017 - 06963 Farm name Antero Resources Corp Well number Holtz Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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Complete a separate record for each stimulation stage.

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Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

APPROVED

SK12/13/2024

API 47- 017 - 06963 Farm name Antero Resources Corp Well number Holtz Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6496' (TOP)</u> TVD	<u>7268' (TOP)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 540 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 131 mcfpd Oil 510 bpd NGL --- bpd Water 1096 bpd
GAS MEASURED BY Estimated Orifice Pilot

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

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Halliburton Energy Services
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Stimulating Company Halliburton
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373
Signature Carly Marvel Title Permitting Agent Date 9/23/2024

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

APPROVED 12/13/2024
12-4-24

OCT 08 2024

API 47-017-06963 Farm Name Antero Resources Corporation Well Number Holt Unit 2H					
Exhibit 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/26/2024	15653.5	15611.1	36	Marcellus
2	5/26/2024	15572.20935	15405.7561	36	Marcellus
3	5/26/2024	15370.06545	15203.6122	36	Marcellus
4	5/27/2024	15167.92154	15001.4683	36	Marcellus
5	5/27/2024	14965.77764	14799.3244	36	Marcellus
6	5/27/2024	14763.63374	14597.1805	36	Marcellus
7	5/27/2024	14561.48984	14395.0366	36	Marcellus
8	5/27/2024	14359.34593	14192.8927	36	Marcellus
9	5/27/2024	14157.20203	13990.7488	36	Marcellus
10	5/28/2024	13955.05813	13788.6049	36	Marcellus
11	5/28/2024	13752.91423	13586.461	36	Marcellus
12	5/28/2024	13550.77033	13384.3171	36	Marcellus
13	5/28/2024	13348.62642	13182.1732	36	Marcellus
14	5/28/2024	13146.48252	12980.0293	36	Marcellus
15	5/28/2024	12944.33862	12777.8854	36	Marcellus
16	5/29/2024	12742.19472	12575.7415	36	Marcellus
17	5/29/2024	12540.05081	12373.5976	36	Marcellus
18	5/29/2024	12337.90691	12171.4537	36	Marcellus
19	5/29/2024	12135.76301	11969.3098	36	Marcellus
20	5/29/2024	11933.61911	11767.1659	36	Marcellus
21	5/29/2024	11731.4752	11565.022	36	Marcellus
22	5/29/2024	11529.3313	11362.878	36	Marcellus
23	5/30/2024	11327.1874	11160.7341	36	Marcellus
24	5/30/2024	11125.0435	10958.5902	36	Marcellus
25	5/30/2024	10922.89959	10756.4463	36	Marcellus
26	5/30/2024	10720.75569	10554.3024	36	Marcellus
27	5/30/2024	10518.61179	10352.1585	36	Marcellus
28	5/30/2024	10316.46789	10150.0146	36	Marcellus
29	5/30/2024	10114.32398	9947.87073	36	Marcellus
30	5/30/2024	9912.180081	9745.72683	36	Marcellus
31	5/31/2024	9710.036179	9543.58293	36	Marcellus
32	5/31/2024	9507.892276	9341.43902	36	Marcellus
33	5/31/2024	9305.748374	9139.29512	36	Marcellus
34	5/31/2024	9103.604472	8937.15122	36	Marcellus
35	5/31/2024	8901.460569	8735.00732	36	Marcellus
36	5/31/2024	8699.316667	8532.86341	36	Marcellus
37	5/31/2024	8497.172764	8330.71951	36	Marcellus
38	6/1/2024	8295.028862	8128.57561	36	Marcellus
39	6/1/2024	8092.884959	7926.43171	36	Marcellus
40	6/1/2024	7890.741057	7724.2878	36	Marcellus
41	6/1/2024	7688.597154	7522.1439	36	Marcellus
42	6/1/2024	7486.453252	7320	36	Marcellus

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WV Department of
Environmental Protection

API 47-017-06963 Farm Name Antero Resources Corporation Well Number Holtz 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	5/26/2024	92.0	9551.8	7352.3	4750.8	169640	4912.1	N/A
2	5/26/2024	95.3	9255.3	6870.3	4381.1	417860	6963.4	N/A
3	5/26/2024	91.8	8710.6	6688.4	4856.0	422700	7568.4	N/A
4	5/27/2024	97.7	9109.6	6283.1	4537.2	416180	6981.3	N/A
5	5/27/2024	97.2	9102.5	6348.8	4794.0	413360	6985.2	N/A
6	5/27/2024	95.5	9046.9	6318.3	4471.3	407720	6913.5	N/A
7	5/27/2024	96.9	9083.9	6407.1	3795.0	421880	7192.1	N/A
8	5/27/2024	95.5	9319.4	6740.5	4009.6	415360	7029.1	N/A
9	5/27/2024	96.1	8931.8	6423.0	3975.0	411000	6992.0	N/A
10	5/28/2024	95.3	9070.1	6100.6	4330.0	415300	6868.1	N/A
11	5/28/2024	95.6	9145.2	5995.5	4288.3	412320	6847.7	N/A
12	5/28/2024	96.0	9067.8	6079.6	4040.0	416960	7167.0	N/A
13	5/28/2024	89.4	9966.6	7224.3	4264.4	420000	7103.3	N/A
14	5/28/2024	96.5	9002.1	6350.6	4472.0	425200	6787.2	N/A
15	5/28/2024	93.7	10091.3	6639.9	4317.0	412620	6744.4	N/A
16	5/29/2024	97.4	8688.9	6288.7	4370.1	417300	6557.3	N/A
17	5/29/2024	94.4	10021.9	6473.0	4680.0	421180	6976.9	N/A
18	5/29/2024	96.9	8766.9	6272.9	4606.1	415040	6945.8	N/A
19	5/29/2024	95.2	9576.2	6303.0	4012.9	416300	6926.2	N/A
20	5/29/2024	96.3	8768.0	5896.4	4175.9	418260	6961.1	N/A
21	5/29/2024	97.1	8930.6	5657.5	3783.0	417300	7008.5	N/A
22	5/29/2024	97.5	8654.2	5813.1	4243.0	416580	6962.2	N/A
23	5/30/2024	97.4	8767.1	5714.6	3878.0	413940	6992.4	N/A
24	5/30/2024	97.2	8797.5	6243.0	4491.0	414520	6934.1	N/A
25	5/30/2024	97.5	8764.2	5822.5	4019.8	412260	7061.9	N/A
26	5/30/2024	100.2	8882.2	5827.8	4318.4	415660	7243.4	N/A
27	5/30/2024	98.1	9005.9	6037.0	4924.2	419340	7050.0	N/A
28	5/30/2024	97.4	8372.5	5666.6	3920.0	421320	7041.3	N/A
29	5/30/2024	97.3	8405.8	5961.0	4069.0	417340	6884.5	N/A
30	5/30/2024	97.9	8564.3	5610.8	4102.0	423560	6802.9	N/A
31	5/31/2024	97.1	8374.7	5503.0	4274.0	413720	6929.4	N/A
32	5/31/2024	98.1	8336.5	5669.7	4320.1	415480	7068.0	N/A
33	5/31/2024	96.9	8739.4	6098.8	4456.3	423060	7115.8	N/A
34	5/31/2024	96.9	8936.8	5878.8	4012.5	422120	6984.0	N/A
35	5/31/2024	97.2	8576.6	6154.8	4004.9	418540	6924.0	N/A
36	5/31/2024	97.4	8555.1	5958.6	4489.0	420280	6809.1	N/A
37	5/31/2024	97.5	8556.2	6621.6	4325.0	421420	6814.8	N/A
38	6/1/2024	97.7	8430.9	5965.6	4401.0	416320	6863.9	N/A
39	6/1/2024	97.9	8577.4	6695.2	4656.0	411540	6837.5	N/A
40	6/1/2024	96.6	8271.5	6646.2	3963.3	420340	7205.3	N/A
41	6/1/2024	96.8	8300.9	6544.0	4168.1	424500	7031.0	N/A
42	6/1/2024	96.6	8573.3	7126.9	3920.7	418880	6901.4	N/A
	AVERAGE	96	8,896	6,245	4,283	17,284,200	290,887	TOTAL

12/13/2024

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandy Siltstone, Occ Shale	100	200	100	200
Silty Shale, Occ Sandstone	200	250	200	250
Silty Sandstone, Occ Shale	250	550	250	550
Silty Shale, Occ Sandstone	300	700	300	700
Sandy Siltstone, Occ Shale	550	700	550	700
Silty Sandstone	700	800	700	800
Sandstone, Occ Siltstone	800	1,000	800	1,000
Sandy Siltstone, Occ Shale	1,000	1,100	1,000	1,100
Silty Sandstone	1,100	1,250	1,100	1,250
Sandy Siltstone, rr Coal	1,250	1,350	1,250	1,350
Silty Sandstone	1,350	1,450	1,350	1,450
Silty Sandstone, tr Coal	1,450	1,600	1,450	1,600
Sandy Siltstone	1,600	1,800	1,600	1,800
Sandy Siltstone, tr Shale	1,800	1,820	1,800	1,820
Shaley Siltstone, tr Sandstone	1,820	1,774	1,820	1,838
Big Lime	1,804	2,454	1,838	2,591
Fifty Foot Sandstone	2,454	2,534	2,561	2,679
Gordon	2,534	2,752	2,649	2,917
Fifth Sandstone	2,752	2,862	2,887	3,037
Bayard	2,862	3,636	3,007	3,897
Speechley	3,636	3,894	3,867	4,191
Balltown	3,894	4,397	4,161	4,753
Bradford	4,397	4,824	4,723	5,223
Benson	4,824	5,118	5,193	5,549
Alexander	5,118	6,321	5,519	6,926
Sycamore	6,162	6,291	6,717	6,896
Middlesex	6,291	6,419	6,896	7,096
Burkett	6,419	6,448	7,096	7,152
Tully	6,448	6,496	7,152	7,268
Marcellus	6,496	NA	7,268	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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OCT 08 2024

WV Department of
Environmental Protection

12/13/2024

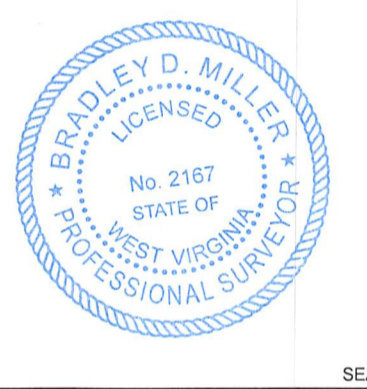
Antero Resources
Well No. Holtz 2H
As-Drilled
Antero Resources Corporation



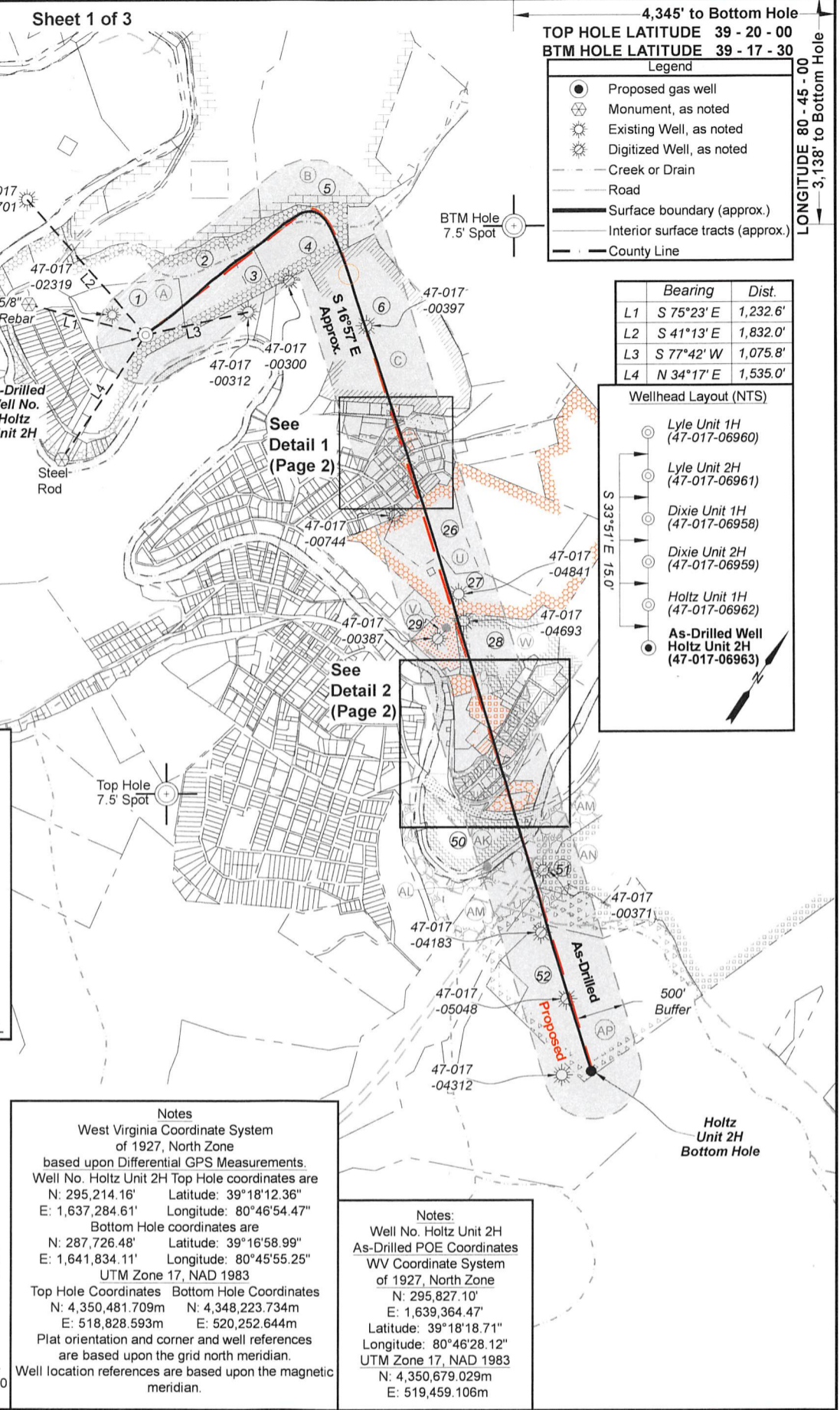
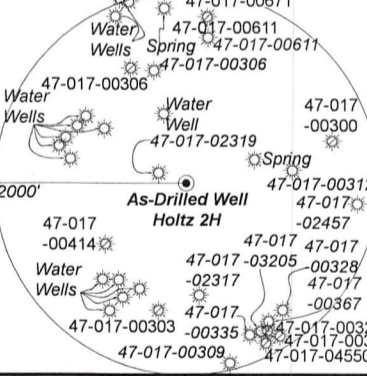
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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
 Bradley D. Miller, P.S. 2167



Note: 14 water wells and 2 springs 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.



8,998' to Top Hole

4,345' to Bottom Hole

TOP HOLE LATITUDE 39 - 20 - 00
 BTM HOLE LATITUDE 39 - 17 - 30

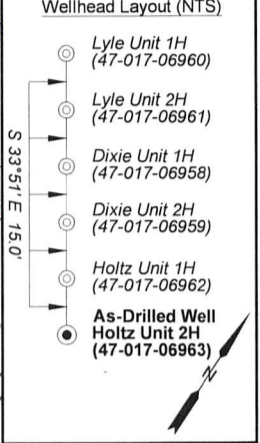
LONGITUDE 80 - 45 - 00
 3,138' to Bottom Hole

10,890' to Top Hole

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.)
- County Line

	Bearing	Dist.
L1	S 75°23' E	1,232.6'
L2	S 41°13' E	1,832.0'
L3	S 77°42' W	1,075.8'
L4	N 34°17' E	1,535.0'



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Holtz Unit 2H Top Hole coordinates are
 N: 295,214.16' Latitude: 39°18'12.36"
 E: 1,637,284.61' Longitude: 80°46'54.47"
 Bottom Hole coordinates are
 N: 287,726.48' Latitude: 39°16'58.99"
 E: 1,641,834.11' Longitude: 80°45'55.25"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,350,481.709m N: 4,348,223.734m
 E: 518,828.593m E: 520,252.644m
 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. Holtz Unit 2H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone
 N: 295,827.10'
 E: 1,639,364.47'
 Latitude: 39°18'18.71"
 Longitude: 80°46'28.12"
 UTM Zone 17, NAD 1983
 N: 4,350,679.029m
 E: 519,459.106m

FILE NO: 57-30-WU-14
 DRAWING NO: Holtz Unit 2H As-Drilled 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: October 4 20 24
 OPERATOR'S WELL NO. Holtz Unit 2H
 API WELL NO
47 - 017 - 06963
 STATE COUNTY PERMIT

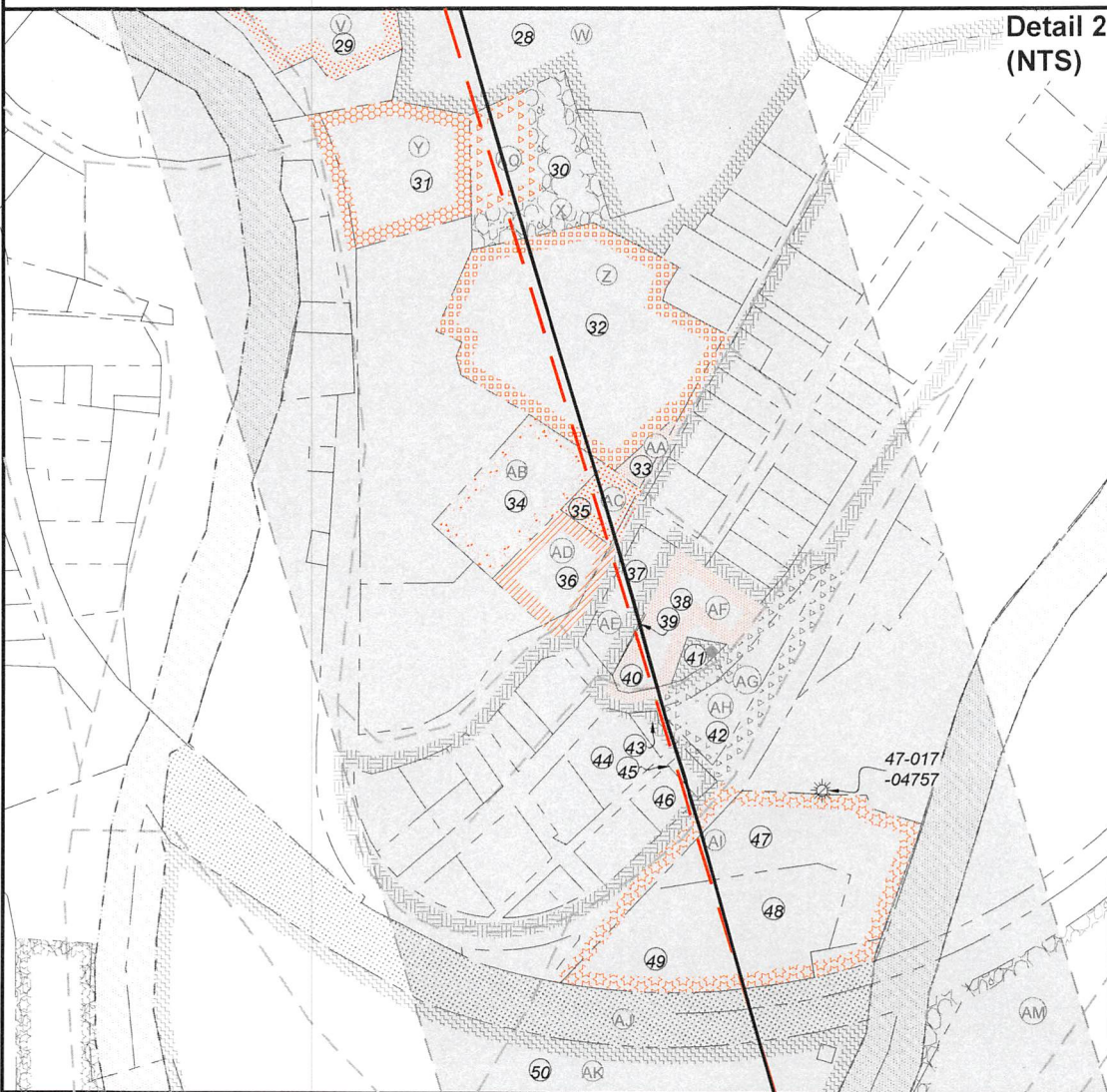
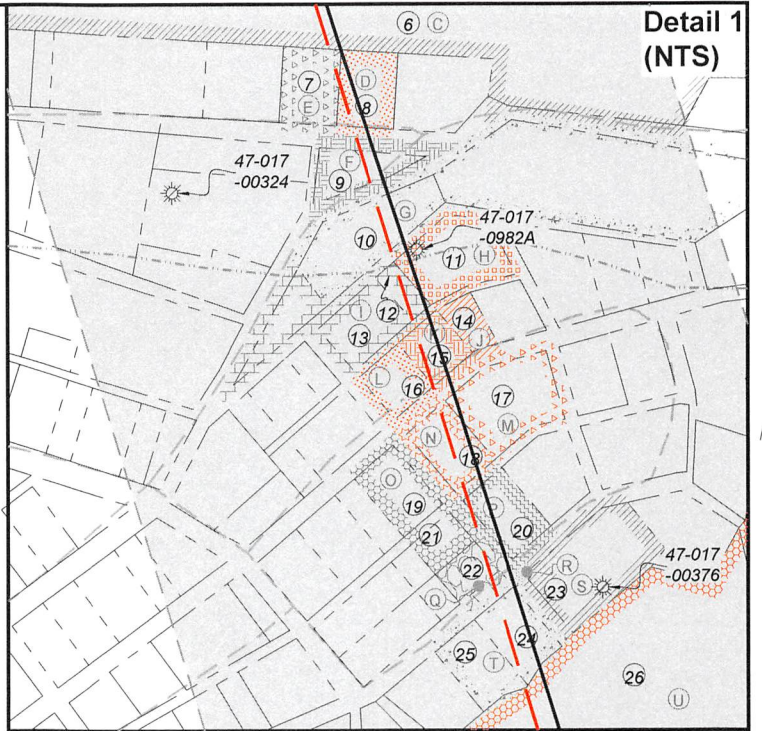
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built: 886' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union Antero COUNTY: Doddridge
 SURFACE OWNER: Resources Corp. ACREAGE: 16.5
 ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: _____ ACREAGE: 90
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,531' TVD 15,773' 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. Holtz 2H
As-Drilled
Antero Resources Corporation

Sheet 2 of 3



FILE NO: 57-30-WU-14
 DRAWING NO: Holtz Unit 2H As-Drilled 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: October 4 20 24
 OPERATOR'S WELL NO. Holtz Unit 2H
 API WELL NO
 47 - 017 - 06963
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built: 886' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union Antero COUNTY: Doddridge
 SURFACE OWNER: Resources Corp. ACREAGE: 16.5
 ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,531' TVD 15,773' 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

12/13/2024



Leases	
A	Claude F. Smith, et ux
B	G. Frank Ash, et ux
C	John F. Curran, II
D	Albert D. Grundy, Jr., et al
E	Roy J. Hartley
F	Roger Nicholson
G	Elijah B. Ross
H	Joshua C. Cutright & Mariah S. Cutright
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P	Henry Ahouse, et ux
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AQ	Albert D. Grundy, Jr., et al

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3	11-5	Barbara Jean Travis & Sharon K. Weekley	WB62/674	61.46
4	7-28	Barbara Jean Travis & Sharon K. Weekley	WB62/674	14.50
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7	1-5	Roy J. & Renelda Hartley	303/178	0.25
8	1-6	Deborah C. Robinson & Robert F. Fetty	265/402	0.25
9	1-12	Roger Nicholson	309/630	0.42
10	1-15	Elijah B. Ross	361/225	0.47
11	1-17	William G. Montgomery	471/568	0.33
12	1-16	William G. Montgomery	471/568	0.13
13	1-45	William G. Montgomery	471/568	0.23
14	1-47.1	Charles R. Hughes	WB103/508	0.09
15	1-47	Darlene McKinney & Tom Doak	AB55/162	0.16
16	1-46	Darlene McKinney & Tom Doak	AB55/162	0.16
17	1-58	Melissa Sutton	356/148	0.43
18	1-56	Diana M. Grandt	306/50	0.22
19	1-54	Karen A. Shepherd	WB72/285	0.22
20	1-55	Henry & Jan Ahouse	251/65	0.22
21	1-53	David Ford King	512/371	0.11
22	1-53.1	Ronald S. Nicholson	469/533	0.11
23	1-62	John M., Sharon L. & Matthew Smith	469/76	0.44
24	1-63	Jennifer L. Landers	AB52/466	0.22
25	1-64	Jennifer L. Landers	AB52/466	0.22
26	11-21	Justin E. & Melissa Ann Holtz	342/354	10.99
27	11-23	Justin E. & Melissa Ann Holtz	342/354	23.77
28	11-42	Justin E. Holtz & Melissa Ann Megna	259/269	13.66
29	4-97	David Bowyer, et al	315/207	3.50
30	4-8	Elizabeth G. Leggett	371/413	0.75
31	4-96	Mary Ann & Teigh Byrne	236/606	0.95
32	4-10	Odd Fellows Cemetery	---/---	2.55
33	4-12	William C. Davis & Robert K. Davis	302/1	0.08
34	4-11	Catholic Cemetery	--/---	0.79
35	4-12.2	Richard G. & Linda K. Kinney	171/385	0.19
36	4-12.1	Joshua C. Howell	278/146	0.35
37	4-13	David N. & Linda L. Bonnell	158/702	0.37
38	4-14.4	Tamara L. & Robert F. Henderson	279/451	0.33
39	4-14.2	Richard Plauger, Jr. & Jazmane Plauger	244/566	0.004
40	4-14	Richard Plauger, Jr. & Jazmane Plauger	244/566	0.19
41	4-14.3	Richard Plauger Jr. & Jazmane Plauger	364/419	0.07
42	4-32	Frank & Jessica Blandori	362/538	0.53
43	4-40	Deloris F. Kimball	AP40/631	0.08
44	4-39	Bradley S. & Joyce A. Lapo	272/633	0.40
45	4-41	Frank & Jessica Blandori	273/416	0.05
46	4-43	Dennis C. Griffin, Jr.	AB58/86	0.12
47	11-67.2	Town of West Union	360/517	1.12
48	11-67.3	Town of West Union	202/184	0.87
49	11-67.1	Town of West Union	202/184	0.60
50	11-77	Board of Education	94/229	10.26
51	11-80	Karen M. Ireland Family Limited Partnership	235/3	105.35
52	11-81	Carolyn E. Farr Irrevocable Trust	221/627	41.74

FILE NO: 57-30-WU-14
DRAWING NO: Holtz Unit 2H As-Drilled 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: October 4 20 24
OPERATOR'S WELL NO. Holtz Unit 2H
API WELL NO
47 - 017 - 06963
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,531' TVD 15,773' 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

8,998' to Top Hole

4,345' to Bottom Hole

TOP HOLE LATITUDE 39 - 20 - 00
BTM HOLE LATITUDE 39 - 17 - 30

LONGITUDE 80 - 45 - 00
3,138' to Bottom Hole

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



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.

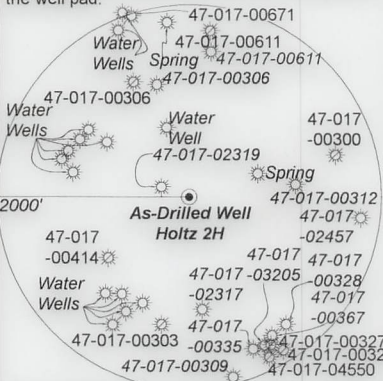
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167

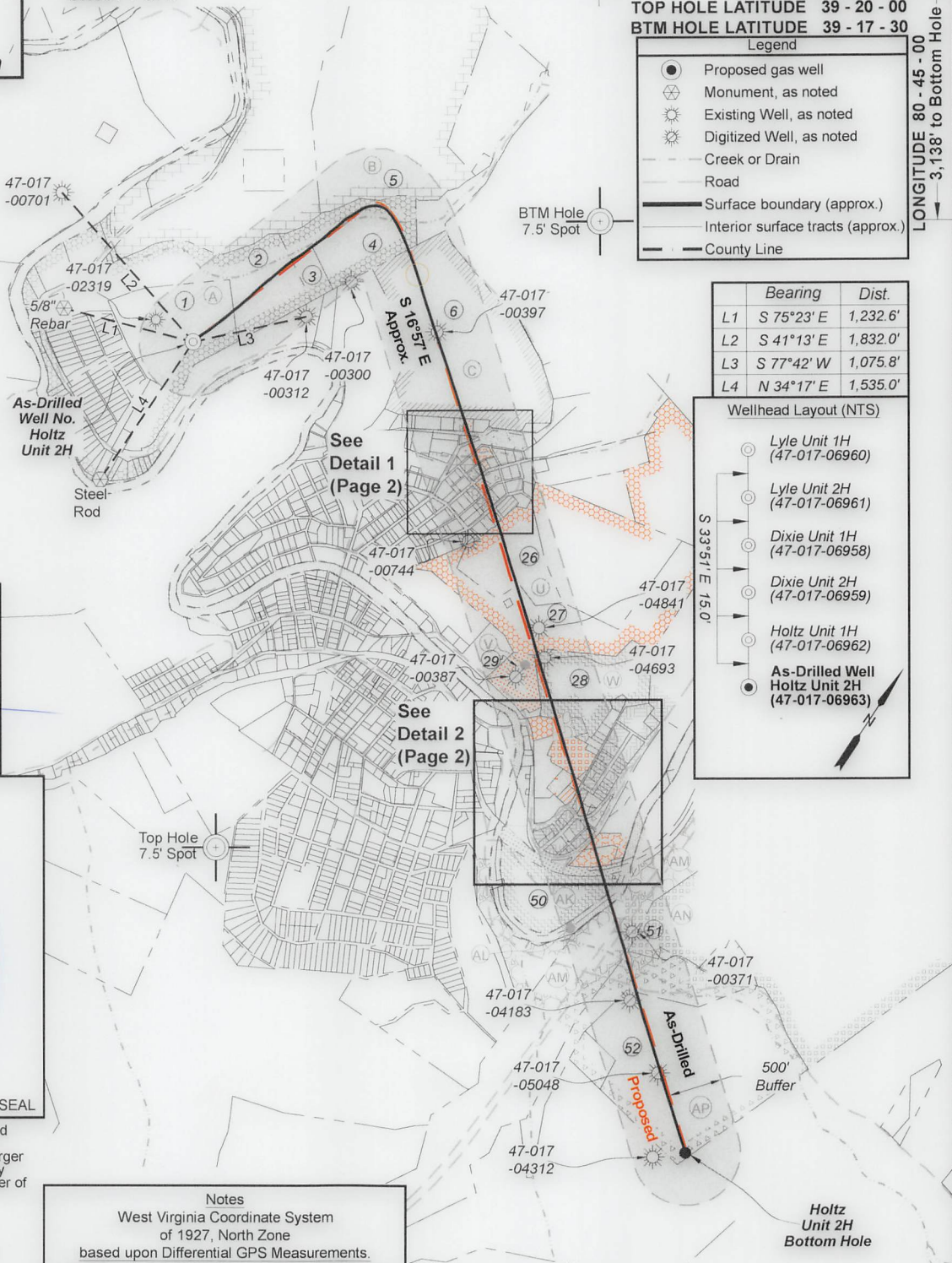


SEAL

Note: 14 water wells and 2 springs 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.



Sheet 1 of 3



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.)
- County Line

	Bearing	Dist.
L1	S 75°23' E	1,232.6'
L2	S 41°13' E	1,832.0'
L3	S 77°42' W	1,075.8'
L4	N 34°17' E	1,535.0'

Wellhead Layout (NTS)

- Lyle Unit 1H (47-017-06960)
- Lyle Unit 2H (47-017-06961)
- Dixie Unit 1H (47-017-06958)
- Dixie Unit 2H (47-017-06959)
- Holtz Unit 1H (47-017-06962)
- As-Drilled Well Holtz Unit 2H (47-017-06963)

Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Holtz Unit 2H Top Hole coordinates are
N: 295,214.16' Latitude: 39°18'12.36"
E: 1,637,284.61' Longitude: 80°46'54.47"
Bottom Hole coordinates are
N: 287,726.48' Latitude: 39°16'58.99"
E: 1,641,834.11' Longitude: 80°45'55.25"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,350,481.709m N: 4,348,223.734m
E: 518,828.593m E: 520,252.644m
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. Holtz Unit 2H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone
N: 295,827.10'
E: 1,639,364.47'
Latitude: 39°18'18.71"
Longitude: 80°46'28.12"
UTM Zone 17, NAD 1983
N: 4,350,679.029m
E: 519,459.106m

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STATE OF WEST VIRGINIA
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OIL AND GAS DIVISION

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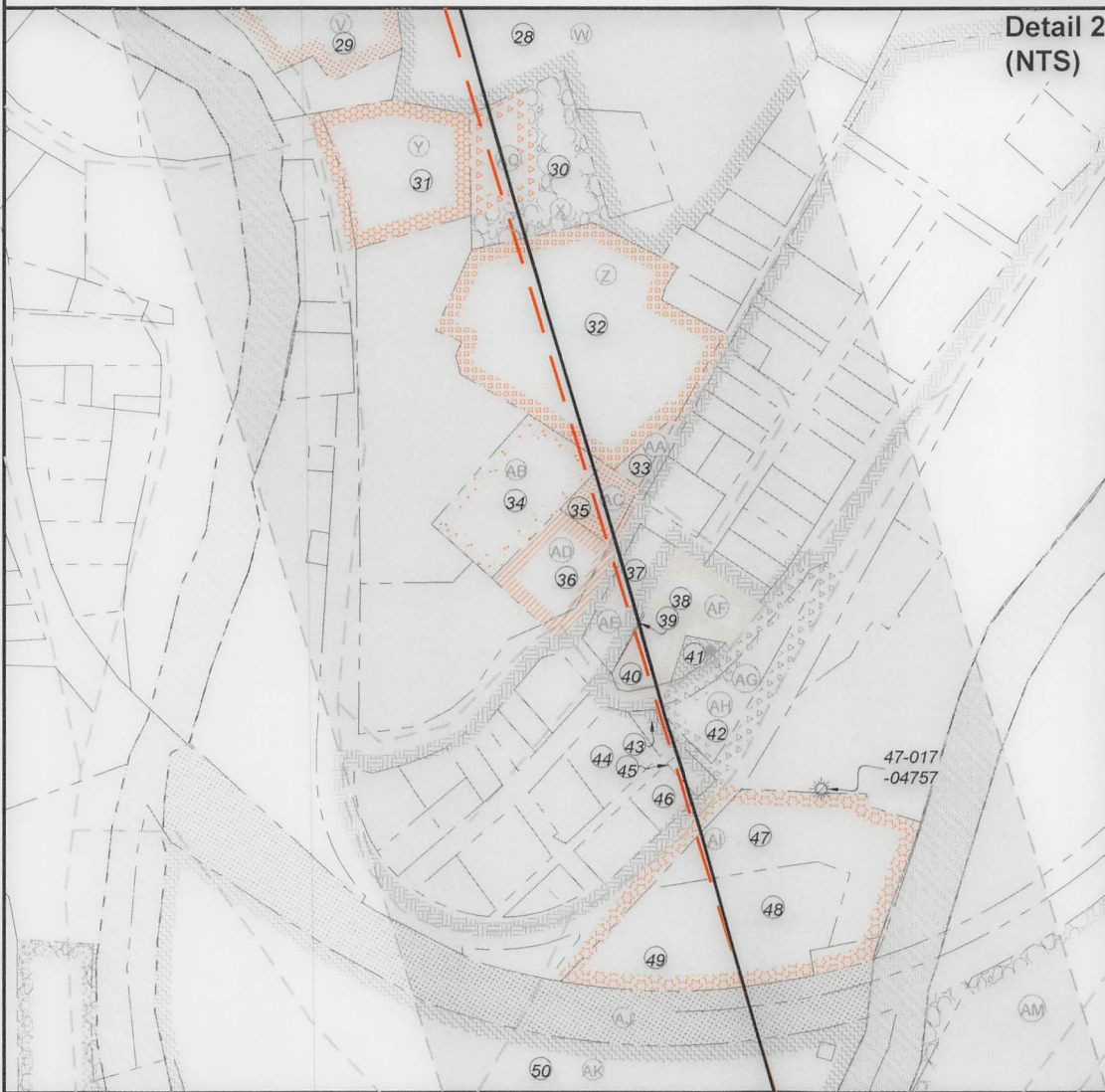
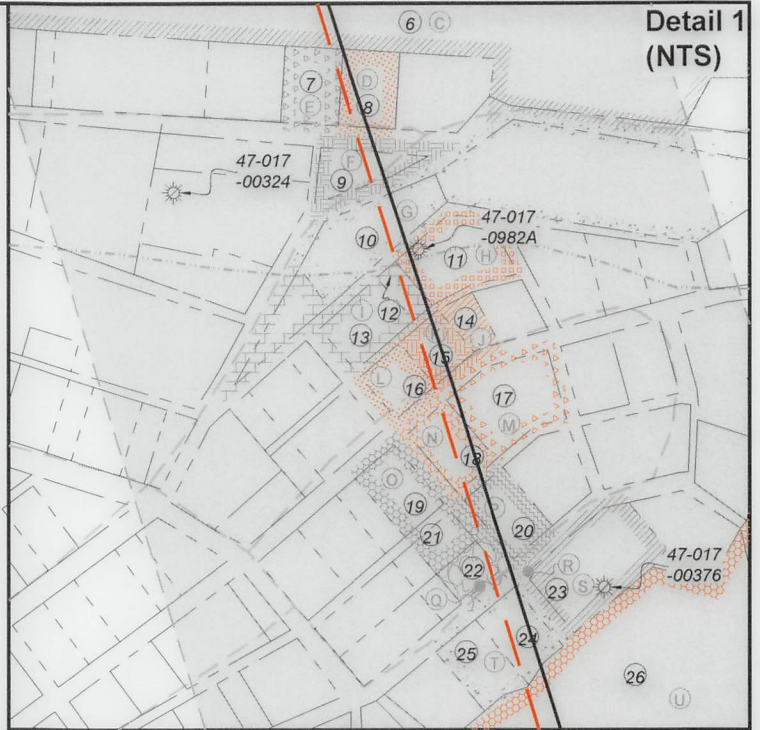
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WR-95

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

Sheet 2 of 3



FILE NO: 57-30-WU-14
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STATE OF WEST VIRGINIA
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WP-35



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 Denver, CO 80202 Bridgeport, WV 26330

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	05/23/2024
Job End Date:	06/01/2024
State:	West Virginia
County:	Doddridge
API Number:	47-017-06963-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	HOLTZ UNIT 2H
Latitude:	39.30352
Longitude:	-80.78162
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6569
Total Base Water Volume (gal)*:	12499145
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

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Environmental Protection

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
Excelerate LX-21	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 10.0)	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					

Items above are Trade Names. Items below are the individual ingredients.

12/13/2024

			Water	7732-18-5	100.00000	87.69767	None
			Crystalline silica, quartz	14808-60-7	100.00000	12.12802	None
			Water	7732-18-5	100.00000	0.14951	None
			Hydrochloric acid	7647-01-0	30.00000	0.03541	None
			Complex amine compound	Proprietary	60.00000	0.02623	None
			Hydrotreated distillate	Proprietary	30.00000	0.01312	None
			Guar gum	9000-30-0	100.00000	0.00475	None
			Glutaraldehyde	111-30-8	30.00000	0.00225	None
			Ammonium chloride	12125-02-9	5.00000	0.00219	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00219	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00219	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00044	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00044	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00037	None
			Methanol	67-56-1	100.00000	0.00022	None
			Ammonium persulfate	7727-54-0	100.00000	0.00010	None
			Citric acid	77-92-9	1.00000	0.00007	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	None
			Modified thiourea polymer	Proprietary	30.00000	0.00007	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	None
			Propargyl alcohol	107-19-7	5.00000	0.00001	None
			Hexadecene	629-73-2	5.00000	0.00001	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	None
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	None

* 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%

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WV Department of
Environmental Protection

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)

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WV Department of
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