

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 - 06962 County Doddridge District West Union
Quad West Union Pad Name Genevieve Field/Pool Name ----
Farm name Antero Resources Corp Well Number Holtz Unit 1H
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 4350485.546m Easting 518825.914m
Landing Point of Curve Northing 4350506.18m Easting 519215.40m
Bottom Hole Northing 4347897.747m Easting 520075.234m

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 3/22/2024
Date completion activities began 5/25/2024 Date completion activities ceased 6/25/2024
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

APPROVED

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

API 47-017 - 06962 Farm name Antero Resources Corp Well number Holtz Unit 1H

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"	625'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3306'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	16326'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6816'		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	1205 sx	15.8	1.15	1386	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) 16326' MD, 6523' TVD (BHL), 6571' (Deepest Point Drilled) Loggers TD (ft) 16326' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5445'

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

APPROVED 12/13/2024 -4-24

API 47- 017 - 06962 Farm name Antero Resources Corp Well number Holtz Unit 1H

PERFORATION RECORD

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

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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

WV Department of
Environmental Protection

Complete a separate record for each stimulation stage.

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.

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SK

12/13/2024 24

API 47- 017 - 06962 Farm name Antero Resources Corp Well number Holtz Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6495' (TOP) TVD	6963' (TOP) 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 656 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 14875 mcfpd Oil 146 bpd NGL --- bpd Water 591 bpd GAS MEASURED BY Estimated Orifice Pilot

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**

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

APPROVAL 12-4-24 12/13/2024

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API 47-017-06962 Farm Name Antero Resources Corporation Well Number Holtz Unit 1H					
Exhibit 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/25/2024	16206.5	16162.4	36	Marcellus
2	5/26/2024	16124.06884	15960.413	36	Marcellus
3	5/27/2024	15925.28188	15761.6261	36	Marcellus
4	5/27/2024	15726.49493	15562.8391	36	Marcellus
5	5/28/2024	15527.70797	15364.0522	36	Marcellus
6	5/29/2024	15328.92101	15165.2652	36	Marcellus
7	5/30/2024	15130.13406	14966.4783	36	Marcellus
8	5/31/2024	14931.3471	14767.6913	36	Marcellus
9	5/31/2024	14732.56014	14568.9043	36	Marcellus
10	6/1/2024	14533.77319	14370.1174	36	Marcellus
11	6/1/2024	14334.98623	14171.3304	36	Marcellus
12	6/2/2024	14136.19928	13972.5435	36	Marcellus
13	6/2/2024	13937.41232	13773.7565	36	Marcellus
14	6/2/2024	13738.62536	13574.9696	36	Marcellus
15	6/3/2024	13539.83841	13376.1826	36	Marcellus
16	6/3/2024	13341.05145	13177.3957	36	Marcellus
17	6/4/2024	13142.26449	12978.6087	36	Marcellus
18	6/4/2024	12943.47754	12779.8217	36	Marcellus
19	6/4/2024	12744.69058	12581.0348	36	Marcellus
20	6/5/2024	12545.90362	12382.2478	36	Marcellus
21	6/5/2024	12347.11667	12183.4609	36	Marcellus
22	6/5/2024	12148.32971	11984.6739	36	Marcellus
23	6/6/2024	11949.54275	11785.887	36	Marcellus
24	6/6/2024	11750.7558	11587.1	36	Marcellus
25	6/6/2024	11551.96884	11388.313	36	Marcellus
26	6/7/2024	11353.18188	11189.5261	36	Marcellus
27	6/7/2024	11154.39493	10990.7391	36	Marcellus
28	6/11/2024	10955.60797	10791.9522	36	Marcellus
29	6/11/2024	10756.82101	10593.1652	36	Marcellus
30	6/12/2024	10558.03406	10394.3783	36	Marcellus
31	6/12/2024	10359.2471	10195.5913	36	Marcellus
32	6/12/2024	10160.46014	9996.80435	36	Marcellus
33	6/12/2024	9961.673188	9798.01739	36	Marcellus
34	6/12/2024	9762.886232	9599.23043	36	Marcellus
35	6/12/2024	9564.099275	9400.44348	36	Marcellus
36	6/12/2024	9365.312319	9201.65652	36	Marcellus
37	6/13/2024	9166.525362	9002.86957	36	Marcellus
38	6/13/2024	8967.738406	8804.08261	36	Marcellus
39	6/13/2024	8768.951449	8605.29565	36	Marcellus
40	6/13/2024	8570.164493	8406.5087	36	Marcellus
41	6/13/2024	8371.377536	8207.72174	36	Marcellus
42	6/13/2024	8172.59058	8008.93478	36	Marcellus
43	6/13/2024	7973.803623	7810.14783	36	Marcellus
44	6/13/2024	7775.016667	7611.36087	36	Marcellus
45	6/13/2024	7576.22971	7412.57391	36	Marcellus
46	6/13/2024	7377.442754	7213.78696	36	Marcellus
47	6/14/2024	7178.655797	7015	36	Marcellus

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API 47-017-06962 Farm Name Antero Resources Corporation Well Number Holtz Unit 1H

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	5/25/2024	94.6	9663.7	6114.8	4456.4	168660	4784.7	N/A
2	5/26/2024	94.3	9267.5	6727.8	4063.9	415600	7243.2	N/A
3	5/27/2024	97.4	9379.1	6961.7	4330.0	413400	6986.0	N/A
4	5/27/2024	82.3	9179.6	6684.5	3325.0	415840	6712.5	N/A
5	5/28/2024	97.0	9596.9	7070.8	4566.0	422988	6717.9	N/A
6	5/29/2024	97.3	9700.1	6510.9	4107.9	412140	7027.2	N/A
7	5/30/2024	97.3	9356.5	6154.0	4717.0	411860	6950.4	N/A
8	5/31/2024	97.0	9600.5	6113.3	4125.0	419980	6947.4	N/A
9	5/31/2024	96.7	9948.8	6375.5	3844.0	417620	6943.3	N/A
10	6/1/2024	96.3	9087.1	6360.9	4083.6	412980	7072.9	N/A
11	6/1/2024	96.9	9247.4	6058.5	3770.0	426140	6998.8	N/A
12	6/2/2024	96.5	9049.9	6249.6	3905.0	422900	7023.2	N/A
13	6/2/2024	97.0	9041.2	6101.2	3995.3	420580	6726.0	N/A
14	6/2/2024	97.0	9067.2	6095.7	4664.0	412520	6876.8	N/A
15	6/3/2024	97.1	9088.0	6508.4	3940.2	420420	7149.4	N/A
16	6/3/2024	96.3	9082.2	6678.4	4348.4	417300	6991.2	N/A
17	6/4/2024	96.8	9076.4	6125.1	4039.0	393180	6486.1	N/A
18	6/4/2024	95.5	9044.9	6124.6	4325.3	398630	6894.7	N/A
19	6/4/2024	96.6	8984.6	6341.9	3440.3	423660	6937.5	N/A
20	6/5/2024	92.9	8978.4	6187.4	4236.5	403610	7066.7	N/A
21	6/5/2024	96.0	9079.1	5960.2	4595.0	396080	6613.5	N/A
22	6/5/2024	96.0	8976.1	5848.1	4926.0	400640	6618.2	N/A
23	6/6/2024	94.7	9067.4	6160.1	4142.4	397210	6640.3	N/A
24	6/6/2024	96.2	9036.9	6139.2	3847.0	396940	6738.2	N/A
25	6/6/2024	96.3	8851.7	5831.9	3844.0	402320	6635.1	N/A
26	6/7/2024	96.4	8956.1	5895.1	3842.3	396090	6823.6	N/A
27	6/7/2024	97.1	9030.9	6017.3	3928.5	401210	6876.7	N/A
28	6/11/2024	97.4	9043.2	5880.8	4156.1	395060	6874.2	N/A
29	6/11/2024	97.8	8995.3	6311.4	4022.6	398780	6887.6	N/A
30	6/12/2024	97.5	8816.0	6054.8	4205.2	404980	6889.6	N/A
31	6/12/2024	97.6	8784.5	5722.9	4336.6	397570	6707.2	N/A
32	6/12/2024	97.9	8812.0	5859.1	4516.2	404470	6702.2	N/A
33	6/12/2024	97.3	8681.8	5983.7	4204.6	398630	6711.4	N/A
34	6/12/2024	95.6	8646.1	6061.1	4930.3	396270	6896.7	N/A
35	6/12/2024	96.7	8716.2	5980.0	4483.6	398380	6831.8	N/A
36	6/12/2024	97.7	8462.7	5871.8	4363.7	401550	6839.9	N/A
37	6/13/2024	97.8	8493.9	6127.2	4034.8	401950	6972.6	N/A
38	6/13/2024	97.7	8666.8	5823.5	4157.5	396810	6866.2	N/A
39	6/13/2024	96.8	8758.2	5906.3	4200.1	397290	6733.6	N/A
40	6/13/2024	97.0	8646.2	6017.3	4179.4	395480	6662.3	N/A
41	6/13/2024	97.2	8544.4	5865.3	4319.2	397960	7044.6	N/A
42	6/13/2024	95.6	8339.3	5728.5	4230.0	398720	6841.6	N/A
43	6/13/2024	97.9	8233.5	5943.4	3969.7	394860	6968.3	N/A
44	6/13/2024	97.8	8388.0	6123.6	4599.9	425940	7089.1	N/A
45	6/13/2024	97.8	7911.6	5999.9	5058.7	441940	7349.3	N/A
46	6/13/2024	97.8	8287.3	6445.0	4877.4	440920	7397.3	N/A
47	6/14/2024	97.9	8289.3	7045.2	3831.4	429000	7388.6	N/A
	AVERAGE	96	8,935	6,173	4,215	18,957,058	322,136	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	1,769	1,820	1,787
Big Lime	1,799	2,448	1,787	2,501
Fifty Foot Sandstone	2,448	2,531	2,471	2,587
Gordon	2,531	2,749	2,557	2,814
Fifth Sandstone	2,749	2,855	2,784	2,924
Bayard	2,855	3,636	2,894	3,745
Speechley	3,636	3,897	3,715	4,022
Balltown	3,897	4,398	3,992	4,551
Bradford	4,398	4,818	4,521	4,990
Benson	4,818	5,116	4,960	5,305
Alexander	5,116	6,324	5,275	6,633
Sycamore	6,166	6,294	6,435	6,603
Middlesex	6,294	6,421	6,603	6,800
Burkett	6,421	6,449	6,800	6,855
Tully	6,449	6,495	6,855	6,963
Marcellus	6,495	NA	6,963	NA

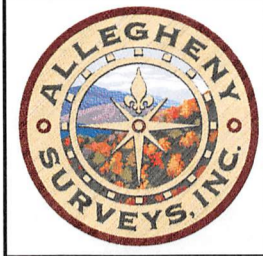
*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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WV Department of
Environmental Protection

Antero Resources
Well No. Holtz 1H
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.

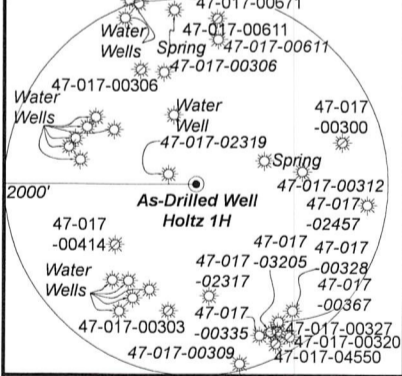
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

Bradley D. Miller, P.S. 2167

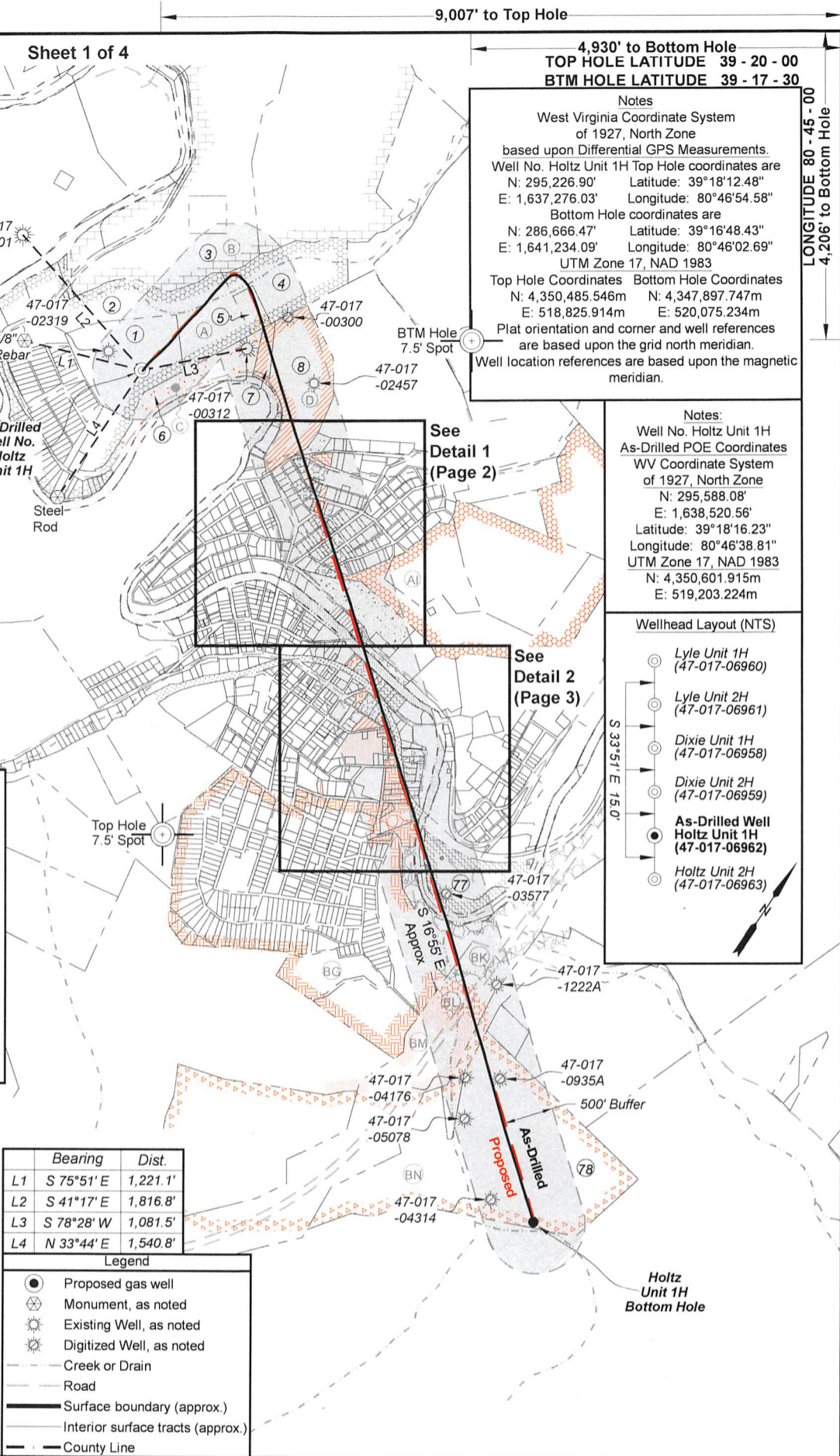


Note: 14 water wells and 2 springs were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Bearing	Dist.
L1 S 75°51' E	1,221.1'
L2 S 41°17' E	1,816.8'
L3 S 78°28' W	1,081.5'
L4 N 33°44' E	1,540.8'

- 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



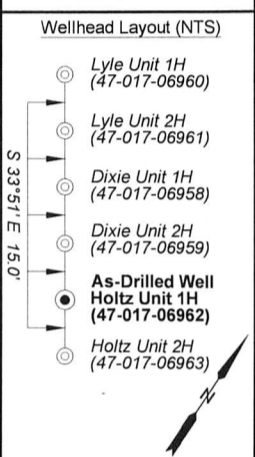
9,007' to Top Hole

4,930' to Bottom Hole
TOP HOLE LATITUDE 39 - 20 - 00
BTM HOLE LATITUDE 39 - 17 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Holtz Unit 1H Top Hole coordinates are
 N: 295,226.90' Latitude: 39°18'12.48"
 E: 1,637,276.03' Longitude: 80°46'54.58"
 Bottom Hole coordinates are
 N: 286,666.47' Latitude: 39°16'48.43"
 E: 1,641,234.09' Longitude: 80°46'02.69"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,350,485.546m N: 4,347,897.747m
 E: 518,825.914m E: 520,075.234m
 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 - 45 - 00
 4,206' to Bottom Hole

Notes:
 Well No. Holtz Unit 1H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone
 N: 295,588.08'
 E: 1,638,520.56'
 Latitude: 39°18'16.23"
 Longitude: 80°46'38.81"
 UTM Zone 17, NAD 1983
 N: 4,350,601.915m
 E: 519,203.224m



FILE NO: 57-30-WU-14
 DRAWING NO: Holtz Unit 1H 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 1H
 API WELL NO
47 - 017 - 06962
 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 **12/13/2024**
 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: 6,523' TVD 16,326' 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

10,878' to Top Hole



Detail 1
(NTS)



FILE NO: 57-30-WU-14
 DRAWING NO: Holtz Unit 1H 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 1H
 API WELL NO
 47 - 017 - 06962
 STATE COUNTY PERMIT

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

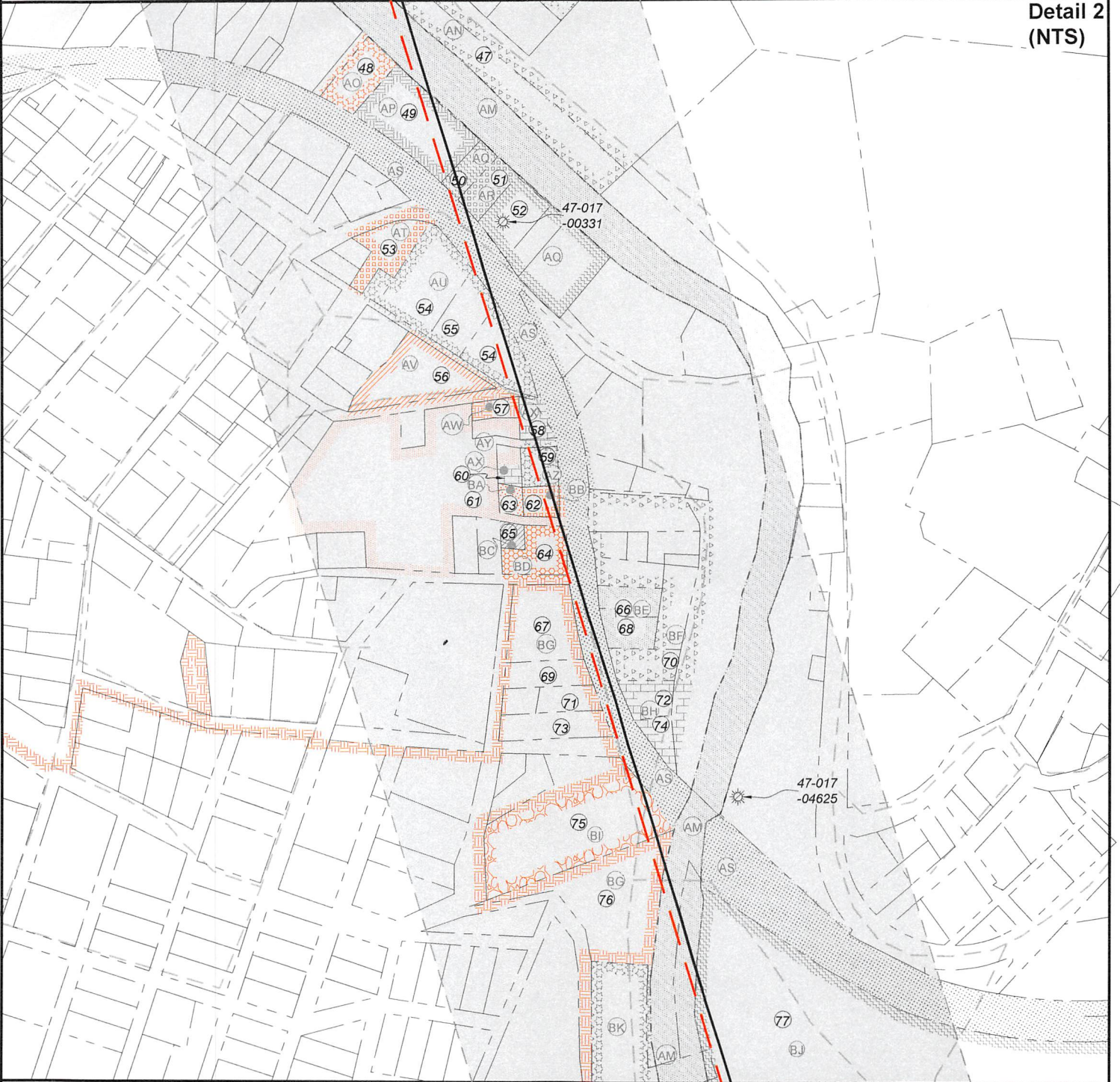
LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union Antero COUNTY: Doddridge
 SURFACE OWNER: Resources Corp. ACREAGE: 16.5
 ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE 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: 6,523' TVD 16,326' 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



Detail 2
(NTS)



FILE NO: 57-30-WU-14
 DRAWING NO: Holtz Unit 1H 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
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DATE: October 4 20 24
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 STATE COUNTY PERMIT

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Leases	
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B	G. Frank Ash, et al
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E	Fred Miracle
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BN	Joseph Cheuront & W.S. Stuart

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1	11-3	Antero Resources Corp.	431/528	16.50
2	11-4	Paul D. & Sharon K. Weekley	186/743	17.30
3	7-26	Barbara Jean Travis & Sharon K. Weekley	WB62/674	61.46
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7	11-6.2	Charles E. Maxson	278/454	2.03
8	11-6	Charles E. Maxson	278/454	18.40
9	11-97	Fred Miracle	252/659	0.22
10	1-158	Charles E. Maxson	196/671	0.50
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12	1-27	Evon Kathleen Allen & George Thomas Ball	257/187	0.12
13	1-22	Evon K. Allen	AP28/304	0.16
14	1-24	Evon K. Allen & George Thomas Ball	246/369	0.10
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19	1-23	Ruthie Bunting	387/142	0.10
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22	1-28	Carol N. Fox	257/176	0.10
23	1-29	Brian Keith McCloy	372/116	0.17
24	1-73	Webb & Son Holdings LLC	480/192	0.15
25	1-75	Joe D. & Doris A. Pauley	474/196	0.11
26	1-76	Joe D. & Doris A. Pauley	474/196	0.22
27	1-77	Angela Hope McClain Special Needs Trust	WB39/583	0.19
28	1-78	Joseph D. Pauley	287/001	0.25
29	1-79	James Edward Ross	273/680	0.14
30	1-88	Carrie A. Booher	303/176	0.11
31	1-86	Carrie A. Booher	303/176	0.11
32	1-84	Tabitha J. L. & Anthony R. Smith	284/704	0.14
33	1-82	Bradford & Nancy Crouse	171/459	0.14
34	1-81	Alice T. Rieke	AP29/38	0.17
35	1-85	Colby W. Jett & Stasha A. Moran	376/422	0.22
36	1-83	Berry L. & Barbara J. Riffle	311/109	0.22
37	1-129.1	Jesse Aaron Hileman	430/634	0.11
38	1-129	Debra J. Boyce	260/69	0.11
39	1-97	Jacqueline S. Bonnell	WB76/674	0.30

ID	TM-Par	Owner	Bk/Pg	Acres
40	1-130	William E. Thompson	511/186	0.17
41	1-132	Lya Burgess	AP57/201	0.24
42	1-131	Joe E. & Melissa A. Cross	223/684	0.15
43	11-23	Justin E. & Melissa Ann Holtz	342/354	23.77
44	1-151	Francis John Noll	288/86	3.75
45	3-62	Francis John Noll	288/86	0.43
46	3-62.1	Travis Auto Parts	190/743	0.11
47	3-311	Randall L. Bonnell & Loeta F. Riddle	455/145	1.43
48	3-98	Harvey S. Randolph	AP35/521	0.30
49	3-99	Delgreta Lee Tarbet	WB34/568	0.79
50	3-99.1	Edward Jett	253/355	0.16
51	3-100	Edward Jett	253/355	0.21
52	3-307	Edward Jett	253/355	0.35
53	3-158	Robert L. Holland	154/659	---
54	3-159	Lorraine L. Brisell	236/169	1.98
55	3-159.1	Lorraine L. Brisell	236/169	0.28
56	3-226	Steven R. Chipps & Nathaniel A. Hoskinson	389/117	0.60
57	4-58.1	Vance L. Underwood & Velva Blanch Jacobs	302/273	0.09
58	4-58	Velva B. Jacobs	373/375	0.12
59	4-60	Velva B. Jacobs	373/375	0.14
60	4-59	Velva B. Jacobs	373/375	0.07
61	4-64	Robert L. Holland	163/143	2.50
62	4-62	Brian N. & Verose L. Mason	362/57	0.11
63	4-61	Velva B. Jacobs	278/457	0.09
64	4-66	Michael & Candice Gamache	262/724	0.28
65	4-63	June Reed, et al	AB50/239	0.06
66	4-67	Webb & Son Holdings LLC	427/719	0.17
67	4-66.1	Michael & Candice Gamache	262/724	0.60
68	4-67.1	Webb & Son Holdings LLC	427/719	0.17
69	4-72.1	Smith Family Revolvable Living Trust	446/512	0.28
70	4-68	Charles & Barbara L. Wellings	295/88	0.21
71	4-71	Norma S. Bowyer	318/625	0.15
72	4-69	Robert L & Tamera B. Beamer	283/709	0.19
73	4-72	Smith Family Revolvable Living Trust	446/512	0.53
74	4-70	Robert L & Tamera B. Beamer	283/709	0.14
75	4-91	James L. McAfee	WB55/71	0.50
76	11-72	James L. McAfee	WB55/71	12.58
77	11-77	Board of Education	94/229	10.26
78	15-4	E Properties LTD	201/396	115.03

FILE NO: 57-30-WU-14
 DRAWING NO: Holtz Unit 1H As-Drilled Well Plat
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Submeter
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WVDOT, Harrisville, WV

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

DATE: October 4 2024
 OPERATOR'S WELL NO. Holtz Unit 1H
API WELL NO
47 - 017 - 06962
 STATE COUNTY PERMIT

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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

Antero Resources
Well No. Holtz 1H
As-Drilled
Antero Resources Corporation

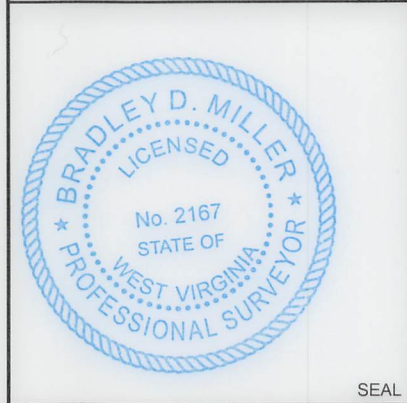


Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

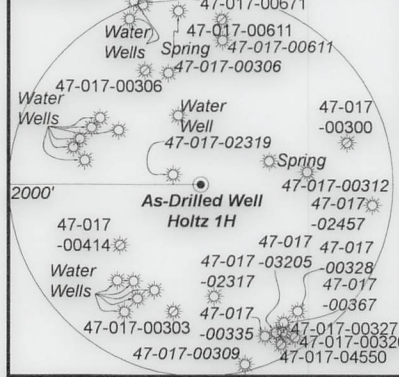
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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.



	Bearing	Dist.
L1	S 75°51' E	1,221.1'
L2	S 41°17' E	1,816.8'
L3	S 78°28' W	1,081.5'
L4	N 33°44' E	1,540.8'

- 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

Sheet 1 of 4

9,007' to Top Hole

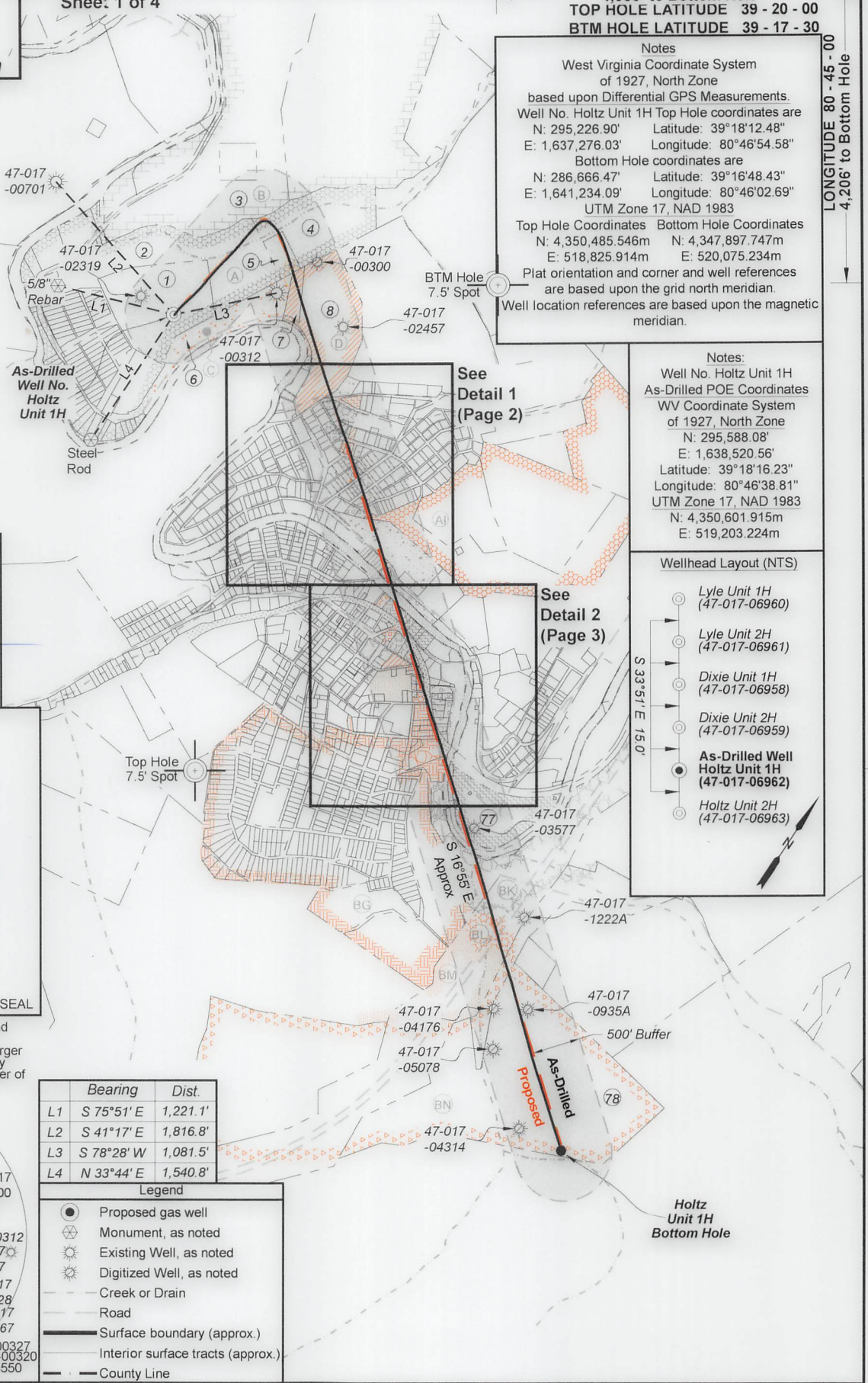
4,930' to Bottom Hole
 TOP HOLE LATITUDE 39 - 20 - 00
 BTM HOLE LATITUDE 39 - 17 - 30

LONGITUDE 80 - 45 - 00
 4,206' to Bottom Hole

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Holtz Unit 1H Top Hole coordinates are
 N: 295,226.90' Latitude: 39°18'12.48"
 E: 1,637,276.03' Longitude: 80°46'54.58"
 Bottom Hole coordinates are
 N: 286,666.47' Latitude: 39°16'48.43"
 E: 1,641,234.09' Longitude: 80°46'02.69"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,350,485.546m N: 4,347,897.747m
 E: 518,825.914m E: 520,075.234m
 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 1H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone
 N: 295,588.08'
 E: 1,638,520.56'
 Latitude: 39°18'16.23"
 Longitude: 80°46'38.81"
 UTM Zone 17, NAD 1983
 N: 4,350,601.915m
 E: 519,203.224m

- 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)
 - As-Drilled Well Holtz Unit 1H (47-017-06962)
 - Holtz Unit 2H (47-017-06963)



FILE NO: 57-30-WU-14
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 SCALE: 1" = 1500'
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STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: October 4 20 24
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 API WELL NO
 47 - 017 - 06962
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WR-35



Detail 1
(NTS)



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68-35

Antero Resources
Well No. Holtz 1H
As-Drilled
Antero Resources Corporation

Sheet 3 of 4



Detail 2
(NTS)



FILE NO: 57-30-WU-14
 DRAWING NO: Holtz Unit 1H As-Drilled Well Plat
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WR-55



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31	1-86	Carrie A. Booher	303/176	0.11
32	1-84	Tabitha J. L. & Anthony R. Smith	284/704	0.14
33	1-82	Bradford & Nancy Crouse	171/459	0.14
34	1-81	Alice T. Rieke	AP29/38	0.17
35	1-85	Colby W. Jett & Stasha A. Moran	376/422	0.22
36	1-83	Berry L. & Barbara J. Riffle	311/109	0.22
37	1-129.1	Jesse Aaron Hileman	430/634	0.11
38	1-129	Debra J. Boyce	260/69	0.11
39	1-97	Jacqueline S. Bonnell	WB76/674	0.30

ID	TM-Par	Owner	Bk/Pg	Acres
40	1-130	William E. Thompson	511/186	0.17
41	1-132	Lya Burgess	AP57/201	0.24
42	1-131	Joe E. & Melissa A. Cross	223/684	0.15
43	11-23	Justin E. & Melissa Ann Holtz	342/354	23.77
44	1-151	Francis John Noll	288/86	3.75
45	3-62	Francis John Noll	288/86	0.43
46	3-62.1	Travis Auto Parts	190/743	0.11
47	3-311	Randall L. Bonnell & Loeta F. Riddle	455/145	1.43
48	3-98	Harvey S. Randolph	AP35/521	0.30
49	3-99	Delgreta Lee Tarbet	WB34/568	0.79
50	3-99.1	Edward Jett	253/355	0.16
51	3-100	Edward Jett	253/355	0.21
52	3-307	Edward Jett	253/355	0.35
53	3-158	Robert L. Holland	154/659	---
54	3-159	Lorraine L. Brisell	236/169	1.98
55	3-159.1	Lorraine L. Brisell	236/169	0.28
56	3-226	Steven R. Chipps & Nathaniel A. Hoskinson	389/117	0.60
57	4-58.1	Vance L. Underwood & Velva Blanch Jacobs	302/273	0.09
58	4-58	Velva B. Jacobs	373/375	0.12
59	4-60	Velva B. Jacobs	373/375	0.14
60	4-59	Velva B. Jacobs	373/375	0.07
61	4-64	Robert L. Holland	163/143	2.50
62	4-62	Brian N. & Verose L. Mason	362/57	0.11
63	4-61	Velva B. Jacobs	278/457	0.09
64	4-66	Michael & Candice Gamache	262/724	0.28
65	4-63	June Reed, et al	AB50/239	0.06
66	4-67	Webb & Son Holdings LLC	427/719	0.17
67	4-66.1	Michael & Candice Gamache	262/724	0.60
68	4-67.1	Webb & Son Holdings LLC	427/719	0.17
69	4-72.1	Smith Family Revolvable Living Trust	446/512	0.28
70	4-68	Charles & Barbara L. Wellings	295/88	0.21
71	4-71	Norma S. Bowyer	318/625	0.15
72	4-69	Robert L. & Tamera B. Beamer	283/709	0.19
73	4-72	Smith Family Revolvable Living Trust	446/512	0.53
74	4-70	Robert L. & Tamera B. Beamer	283/709	0.14
75	4-91	James L. McAfee	WB55/71	0.50
76	11-72	James L. McAfee	WB55/71	12.58
77	11-77	Board of Education	94/229	10.26
78	15-4	E Properties LTD	201/396	115.03

FILE NO: 57-30-WU-14
 DRAWING NO: Holtz Unit 1H 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 2024
 OPERATOR'S WELL NO. Holtz Unit 1H
API WELL NO
47 — 017 — 06962
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built: 886' WATERSHED: 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: 6,523' TVD
16,326' 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

WB-35

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	05/23/2024
Job End Date:	06/14/2024
State:	West Virginia
County:	Doddridge
API Number:	47-017-06962-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	HOLTZ UNIT 1H
Latitude:	39.30355
Longitude:	-80.78166
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6571
Total Base Water Volume (gal)*:	13888567
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

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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	87.84237	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.99041	None
			Water	7732-18-5	100.00000	0.14367	None
			Hydrochloric acid	7647-01-0	30.00000	0.03482	None
			Complex amine compound	Proprietary	60.00000	0.02223	None
			Hydrotreated distillate	Proprietary	30.00000	0.01111	None
			Guar gum	9000-30-0	100.00000	0.00606	None
			Glutaraldehyde	111-30-8	30.00000	0.00230	None
			Ammonium chloride	12125-02-9	5.00000	0.00185	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00185	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00185	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00038	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00037	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00037	None
			Methanol	67-56-1	100.00000	0.00022	None
			Ammonium persulfate	7727-54-0	100.00000	0.00016	None
			Citric acid	77-92-9	1.00000	0.00008	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	0.00005	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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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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