

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
FEB 09 2021
WV Department of
Environmental Protection

API 47-095-02675 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Hogue Pad Field/Pool Name -----
Farm name Michael J. & Melinda R. Hogue Well Number Lancaster 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 4369122.208m Easting 508782.006m
Landing Point of Curve Northing 4371018.485m Easting 508305.174m
Bottom Hole Northing 4368897.073m Easting 509040.971m

Elevation (ft) 1015' 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 2/10/2020 Date drilling commenced 2/19/2020 Date drilling ceased 5/1/2020
Date completion activities began 8/8/2020 Date completion activities ceased 9/2/2020
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 456' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1581' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 740' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
Jes
04/02/2021

API 47- 095 - 02675 Farm name Michael J. & Melinda R. Hogue Well number Lancaster 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	24"	20"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	568'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2755'	New	36#, H-40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	14464'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6960'		4.7#, N-80		
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	109 sx	15.6	1.18	244	0'	8 Hrs.
Surface	Class A	325 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	662 sx	15.6	1.18	1047	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	798 sx (Lead) 1027 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	2819	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14509' MD, 6406' TVD (BHL), 6419' (Deepest Point Drilled) Loggers TD (ft) 14509' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5870'

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

API 47- 095 - 02675 Farm name Michael J. & Melinda R. Hogue Well number Lancaster Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6373' (TOP)</u>	<u>TVD</u>	<u>6920' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 2839 mcfpd Oil 115 bpd NGL --- bpd Water 9 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 1437 South Boulder Avenue City Tulsa State OK Zip 74119

Logging Company KLX Energy Services
Address 1415 Louisiana Street, Suite 2900 City Houston State TX Zip 77002

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223
Signature  Title Permitting Agent Date 12-18-20

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

API 47-095-02675 Farm Name Michael J. & Melinda R. Hogue Well Number Lancaster Unit 2H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/2/2020	14390.3	14346.3	60	Marcellus
2	8/3/2020	14308.14583	14139.375	60	Marcellus
3	8/3/2020	14103.22083	13934.45	60	Marcellus
4	8/4/2020	13898.29583	13729.525	60	Marcellus
5	8/4/2020	13693.37083	13524.6	60	Marcellus
6	8/4/2020	13488.44583	13319.675	60	Marcellus
7	8/5/2020	13283.52083	13114.75	60	Marcellus
8	8/5/2020	13078.59583	12909.825	60	Marcellus
9	8/6/2020	12873.67083	12704.9	60	Marcellus
10	8/6/2020	12668.74583	12499.975	60	Marcellus
11	8/6/2020	12463.82083	12295.05	60	Marcellus
12	8/7/2020	12258.89583	12090.125	60	Marcellus
13	8/7/2020	12053.97083	11885.2	60	Marcellus
14	8/7/2020	11849.04583	11680.275	60	Marcellus
15	8/8/2020	11644.12083	11475.35	60	Marcellus
16	8/8/2020	11439.19583	11270.425	60	Marcellus
17	8/8/2020	11234.27083	11065.5	60	Marcellus
18	8/9/2020	11029.34583	10860.575	60	Marcellus
19	8/9/2020	10824.42083	10655.65	60	Marcellus
20	8/9/2020	10619.49583	10450.725	60	Marcellus
21	8/10/2020	10414.57083	10245.8	60	Marcellus
22	8/10/2020	10209.64583	10040.875	60	Marcellus
23	8/10/2020	10004.72083	9835.95	60	Marcellus
24	8/11/2020	9799.795833	9631.025	60	Marcellus
25	8/11/2020	9594.870833	9426.1	60	Marcellus
26	8/11/2020	9389.945833	9221.175	60	Marcellus
27	8/12/2020	9185.020833	9016.25	60	Marcellus
28	8/12/2020	8980.095833	8811.325	60	Marcellus
29	8/12/2020	8775.170833	8606.4	60	Marcellus
30	8/13/2020	8570.245833	8401.475	60	Marcellus
31	8/13/2020	8365.320833	8196.55	60	Marcellus
32	8/13/2020	8160.395833	7991.625	60	Marcellus
33	8/14/2020	7955.470833	7786.7	60	Marcellus
34	8/14/2020	7750.545833	7581.775	60	Marcellus
35	8/14/2020	7545.620833	7376.85	60	Marcellus
36	8/14/2020	7340.695833	7171.925	60	Marcellus
37	8/15/2020	7135.770833	6967	60	Marcellus

04/02/2021

API 47-095-02675 Farm Name Michael J. & Melinda R. Hogue Well Number Lancaster 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	8/2/2020	77.13	8777	5554	3102	178800	187930	N/A
2	8/3/2020	77.92	8666	97	3514	415540	315307	N/A
3	8/3/2020	77.77	8403	604	3933	410760	353645	N/A
4	8/4/2020	76.68	8716	741	3869	407420	315932	N/A
5	8/4/2020	74.74	8757	394	3530	409780	314566	N/A
6	8/4/2020	77.61	8650	536	3980	411300	376719	N/A
7	8/5/2020	80.43	8671	4970	3990	409160	308316	N/A
8	8/5/2020	75.76	8701.08	8473.62	4036.69	410580	310640	N/A
9	8/6/2020	79.16	8812	6600	4137	409920	310209	N/A
10	8/6/2020	77.09	8845	6152	4304	409860	304478	N/A
11	8/6/2020	81.68	8772	8921	3834	410220	312241	N/A
12	8/7/2020	77.03	8784	5348	4078	408800	313348	N/A
13	8/7/2020	82.15	8770	4886	3971	408920	328952	N/A
14	8/7/2020	82.77	8573	8012	4188	411440	315420	N/A
15	8/8/2020	82.51	8478.14	4876.82	4167.06	407520	307978	N/A
16	8/8/2020	85.5	8570	5713	4235.24	411780	299819	N/A
17	8/8/2020	84.4	8725	5753	4089.33	412080	306558	N/A
18	8/9/2020	87.5	8699	6928	4270.17	409340	303967	N/A
19	8/9/2020	88.17	8699	5383	3933.7	414960	301241	N/A
20	8/9/2020	89.04	8681	6058	3887.98	412240	310084	N/A
21	8/10/2020	89.92	8649	5774	4065.31	410460	301778	N/A
22	8/10/2020	89.57	8567	5455	4083.92	411920	299541	N/A
23	8/10/2020	91.5	8606	5221	3816	411640	299152	N/A
24	8/11/2020	94.47	8672	4527	4014	413780	309655	N/A
25	8/11/2020	92.17	8619.64	4627	3788.31	412340	301646	N/A
26	8/11/2020	93.32	8524	5574	4285	414380	299436	N/A
27	8/12/2020	79.81	7688	4495	3977	414020	298634	N/A
28	8/12/2020	96.88	8569	4634	3823	412380	303315	N/A
29	8/12/2020	94.27	8530	6130	3911	411800	289429	N/A
30	8/13/2020	90.73	8357	6322	3733	407960	290023	N/A
31	8/13/2020	89.64	8483	4843	3790	408760	331997	N/A
32	8/13/2020	92.53	8287	5589	4502.28	410600	287730	N/A
33	8/14/2020	99.67	8331	5590	4016	408120	286409	N/A
34	8/14/2020	93.69	8628	5951	4240	408740	289395	N/A
35	8/14/2020	94.78	8499	5767	4143	411240	289406	N/A
36	8/14/2020	97.7	8403	5827	4131	412080	284188	N/A
37	8/15/2020	93.85	7912	6109	3732	410260	288582	N/A
	AVG=	86.2	8,570	5,093	3,976	14,970,900	11,247,666	TOTAL

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/2/2020
Job End Date:	8/15/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-02675-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Lancaster 2H
Latitude:	39.47156000
Longitude:	-80.89807000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,419
Total Base Water Volume (gal):	11,222,558
Total Base Non Water Volume:	0



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
Produced Water Mixture	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	88.06307	Density = 10.00
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.15943	

MC B-8614	Halliburton	Biocide					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
Legend LD-2990	MultiChem	Friction Reducer					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Items above are Trade Names with the exception of Base Water , Items below are the individual ingredients.							

			Crystalline silica, quartz	14808-60-7	100.00000	11.74763	
			Complex Amine Compound	Proprietary	60.00000	0.03818	
			Hydrochloric acid	7647-01-0	30.00000	0.03424	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01913	
			Guar gum	9000-30-0	100.00000	0.00407	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00319	
			Surfactant	Proprietary	5.00000	0.00318	
			Glutaraldehyde	111-30-8	30.00000	0.00211	
			Ethoxylated alcohols	Proprietary	5.00000	0.00065	
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00064	
			Organic chloride compound	Proprietary	1.00000	0.00064	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00035	
			Methanol	67-56-1	100.00000	0.00028	
			Complex Amine Compound	Proprietary	60.00000	0.00008	
			Ammonium persulfate	7727-54-0	100.00000	0.00008	
			Ethanol	64-17-5	1.00000	0.00007	
			Modified thiourea polymer	Proprietary	30.00000	0.00006	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00006	
			Oxylated phenolic resin	Proprietary	30.00000	0.00002	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			Surfactant	Proprietary	5.00000	0.00001	
			Acrylamide	79-06-1	0.10000	0.00001	

			Formaldehyde	50-00-0	0.01000	0.00001
			Sodium hydroxide	1310-73-2	0.01000	0.00001
			Nitrated acetate salt	Proprietary	0.01000	0.00001
			Organic salt #1	Proprietary	0.01000	0.00001
			Sodium glycolate	2836-32-0	0.01000	0.00001
			Organic salt #2	Proprietary	0.01000	0.00001
			Ethoxylated alcohols	Proprietary	1.00000	0.00000
			Organic chloride compound	Proprietary	1.00000	0.00000
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00000
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000
			Organic salt #1	Proprietary	0.10000	0.00000
			Organic salt #2	Proprietary	0.01000	0.00000
			Organic salt #3	Proprietary	0.01000	0.00000
			Sodium glycollate	2836-32-0	0.01000	0.00000
			Nitrated acetate salt	Proprietary	0.01000	0.00000

* 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%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

8,132' to Bottom Hole

6,671' to Top Hole

LATITUDE 39 - 30 - 00

LONGITUDE 80 - 52 - 30

4,007' to Bottom Hole

10,256' to Top Hole

Page 1 of 4

Antero Resources
Well No. Lancaster Unit 2H
As-Drilled
Antero Resources Corporation



Legend

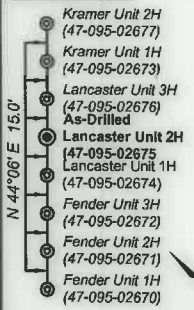
- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

See Detail
Page 2

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Lancaster Unit 2H Top Hole coordinates are
N: 356,934.19' Latitude: 39°28'17.63"
E: 1,605,337.30' Longitude: 80°53'53.06"
POE coordinates are
N: 356,181.20' Latitude: 39°28'10.31"
E: 1,606,174.76' Longitude: 80°53'42.23"
Bottom Hole coordinates are
N: 363,182.98' Latitude: 39°29'19.16"
E: 1,603,876.46' Longitude: 80°54'12.93"
UTM Zone 17, NAD 1983
Top Hole Coordinates POE Coordinates
N: 4,369,122.208m N: 4,368,897.073m
E: 508,782.006m E: 509,040.971m
Bottom Hole Coordinates
N: 4,371,018.485m
E: 508,305.174m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

	Bearing	Dist.
L1	S 48°35' E	1,402.7'
L2	S 27°25' E	1,529.9'
L3	N 72°57' W	900.9'
L4	N 07°32' W	1,454.5'

Wellhead Layout



Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegany 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.

Leases

A	Michael J. & Melinda R. Hogue
B	Ridgetop Capital LP
C	James F. Doan, et ux
D	James F. Doan, et ux
E	Ryan L. Walton, et ux
F	David L. Lancaster, et ux
G	David L. Lancaster, et ux
H	Terry Lee Fiber
I	Joe & Shirley Varese
J	Eugene F. Howell, et ux
K	Leeman W. & Susan L. Mason
L	Eugene F. Howell, et ux
N	Nina Naomi Wise
O	Jerry Todd Williams
P	Barbara J. Davis
Q	William M. Baker
R	William M. Baker, et ux
S	Peter W. & Irmagard E. Guenter, Joint Living Trust
T	BRC Appalachian Minerals I, LLC
U	Robert C. Kramer
V	Ruth E. Blake
W	Charles E. Anderson, et ux
X	John Valentour
Y	Clara Jane Glover
Z	Brian D. Carpenter, et ux
AA	Tustin Family Trust
AB	Samuel O. Wagner
AC	Richard A. Fonner, et ux

Continued on Page 4



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

FILE NO: 11-54-E-19
DRAWING NO: Lancaster Unit 2H As-Drilled
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: December 30 2020
OPERATOR'S WELL NO. Lancaster 2H
API WELL NO
47 - 095 - 02675
STATE COUNTY PERMIT

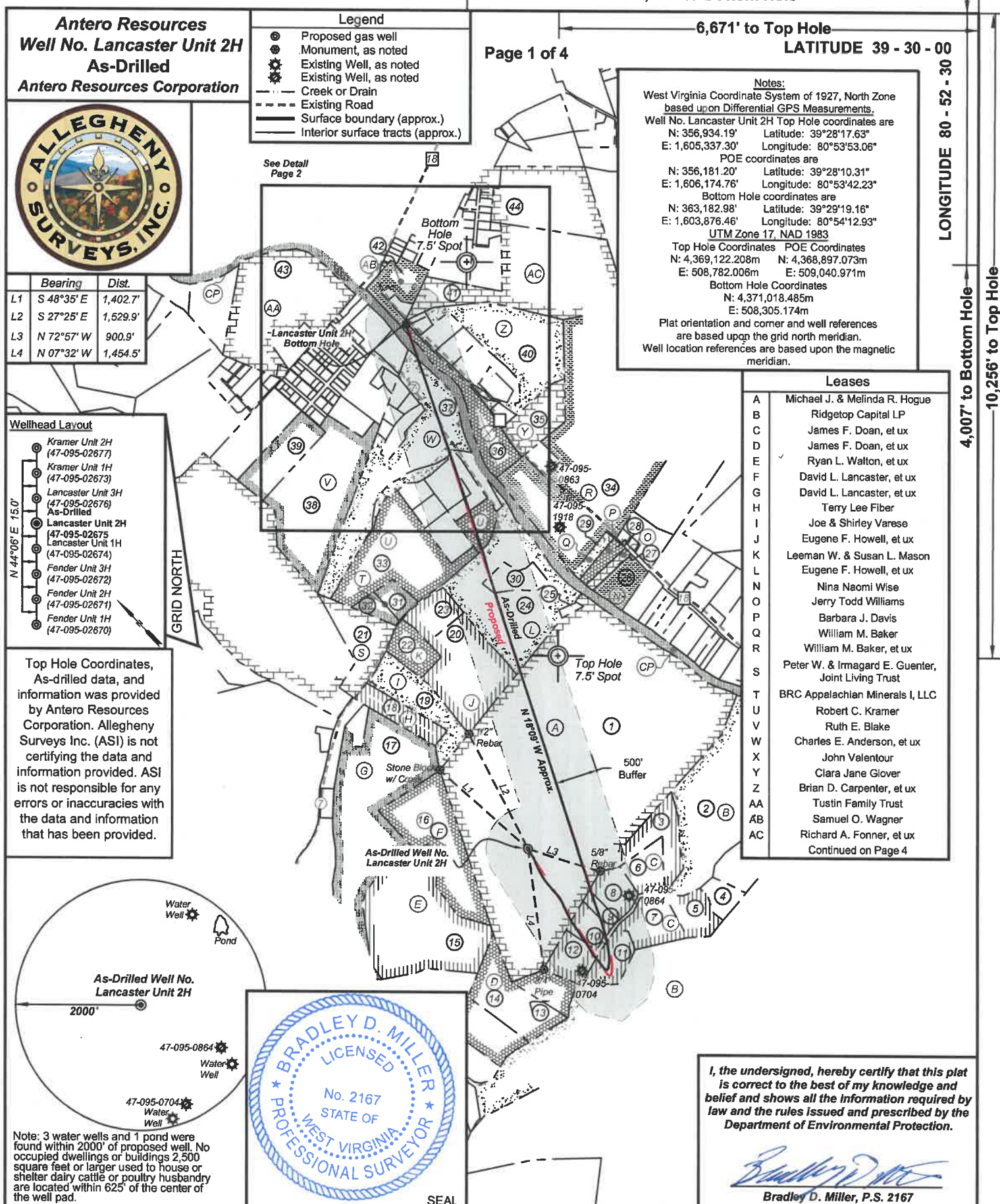
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Michael J. & Melinda R. Hogue Robert C. Kramer; John Valentour; WV Division of Natural Resources; Eugene F. Howell, et ux; Charles E. Anderson, et ux; Bernard M. Hayes, et ux; ACREAGE: 192.0 82,632.5; 191.5; 81.33; 47.016; 310.393; 29.806;
ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux; Ridgetop Capital LP; LEASE NO: ACREAGE: 7.16; 23.964; 28.54

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,406' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 14,509' MD

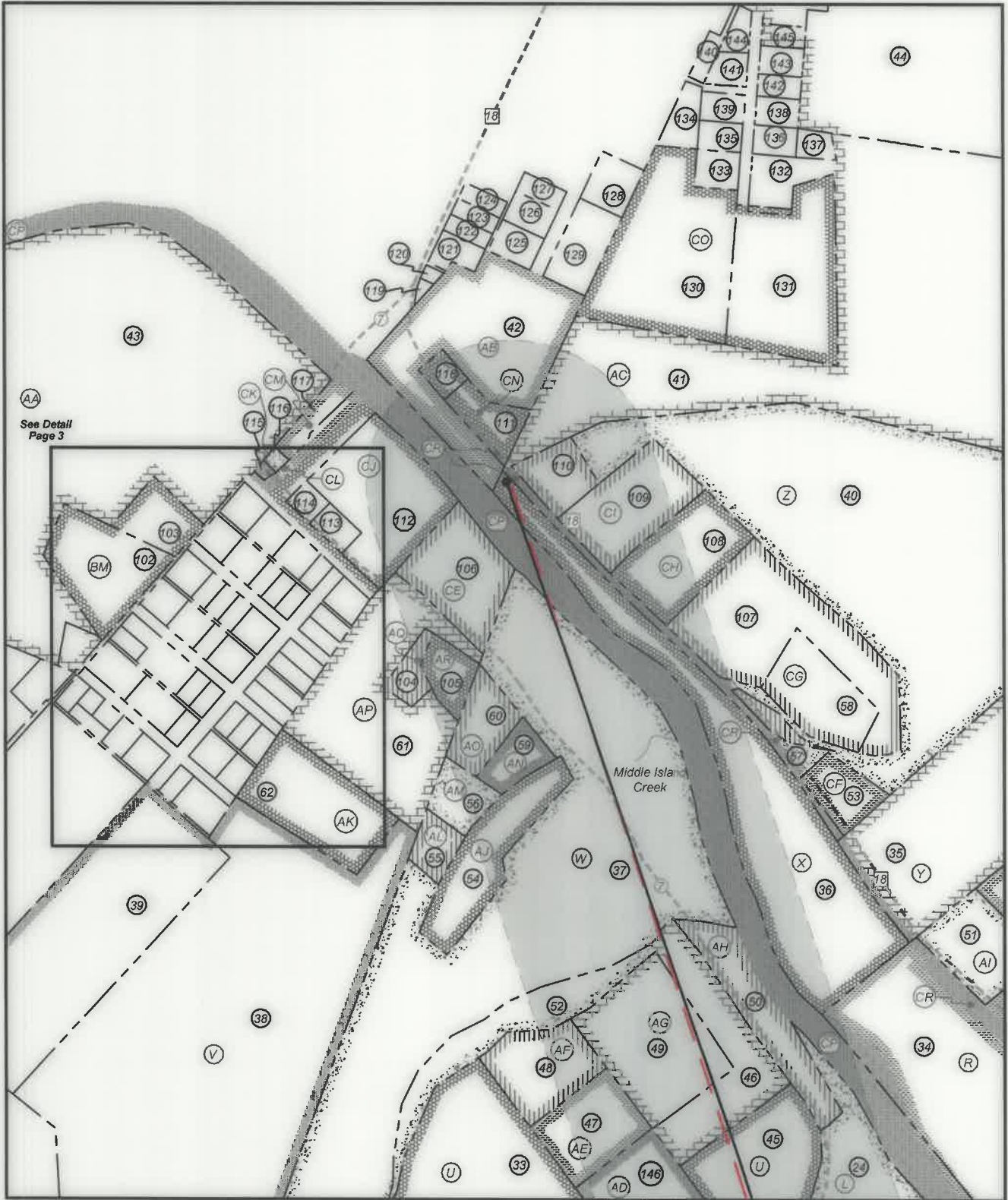
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313



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

04/02/2021



FILE NO: 11-54-E-19
 DRAWING NO: Lancaster Unit 2H As-Drilled
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Lancaster 2H
 API WELL NO
47 - 095 - 02675
 STATE COUNTY PERMIT

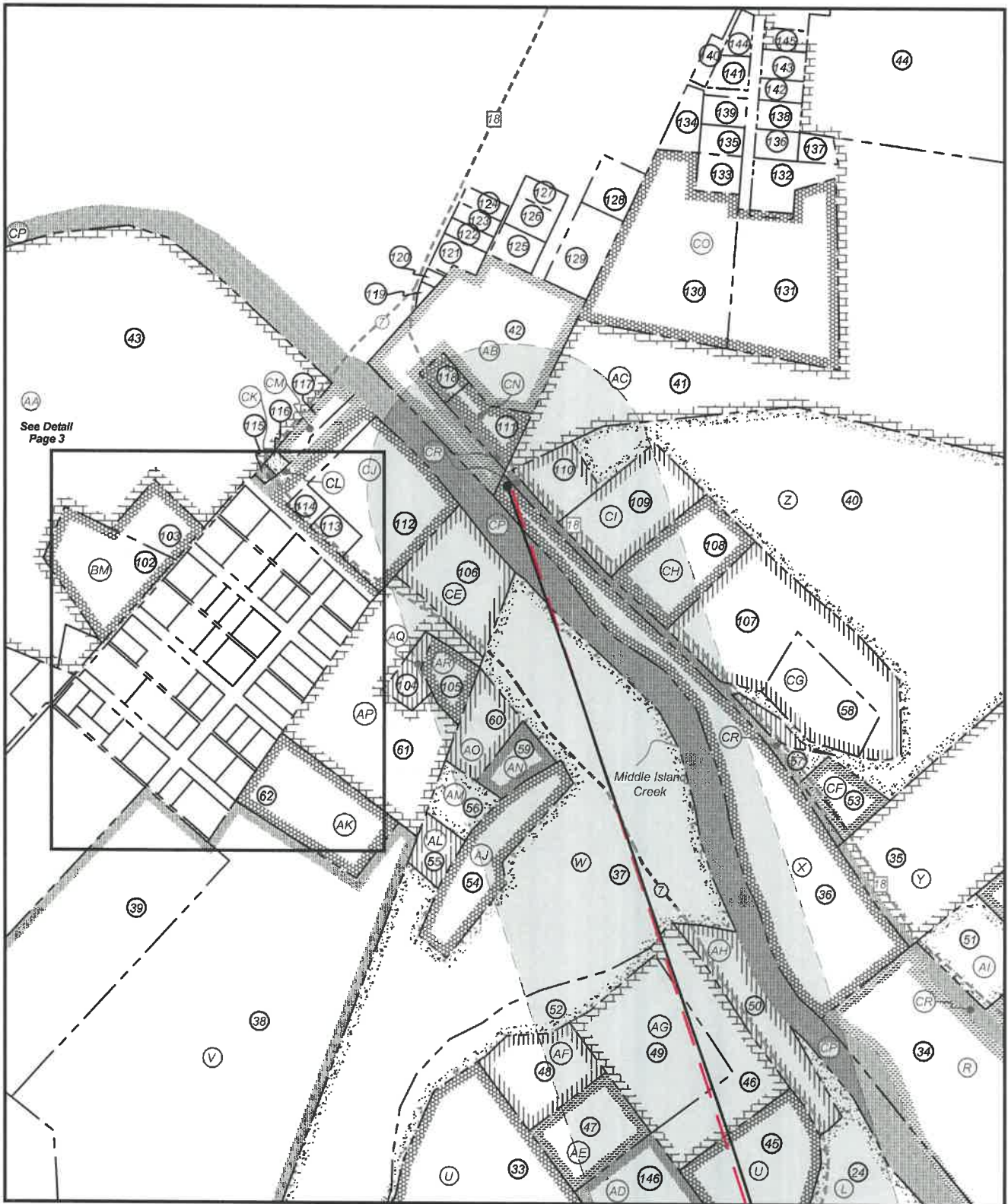
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Michael J. & Melinda R. Hogue Robert C. Kramer; John Valentour; WV Division of Natural Resources; Eugene F. Howell, et ux; Charles E. Anderson, et ux; Bernard M. Hayes, et ux; **04/02/2021**
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux; Ridgeway Capital LP; LEASE NO: _____ ACREAGE: 192.0 191.5; 81.33; 47.016; 310.393; 29.806; 7.16; 23.964; 28.54

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,406' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 14,509' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313



FILE NO: 11-54-E-19
 DRAWING NO: Lancaster Unit 2H As-Drilled
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Lancaster 2H
 API WELL NO
 47 - 095 - 02675
 STATE COUNTY PERMIT

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

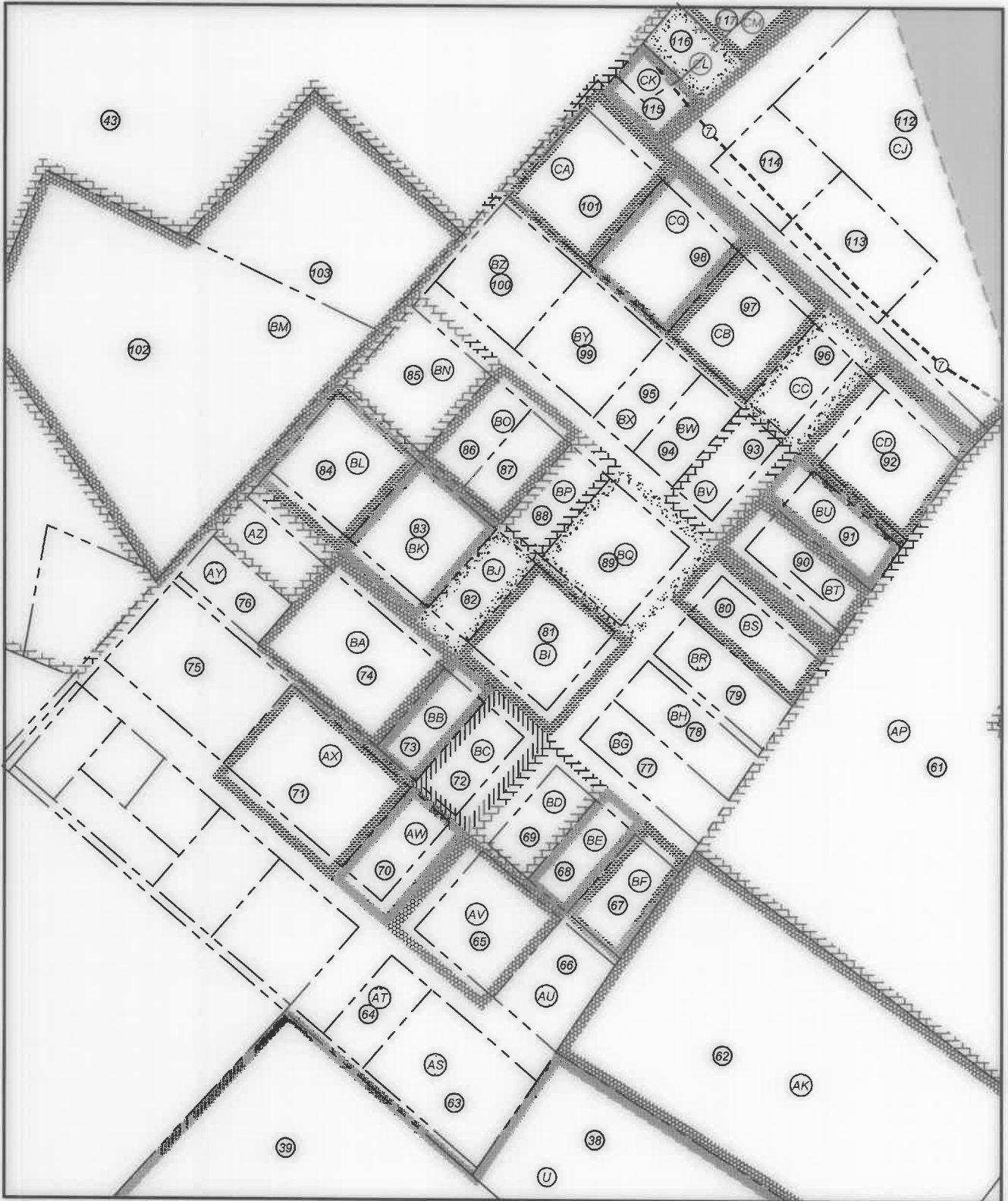
LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Michael J. & Melinda R. Hogue Robert C. Kramer; John Valentour; WV Division of Natural Resources; Eugene F. Howell, et ux; Charles E. Anderson, et ux; Bernard M. Hayes, et ux; ACREAGE: 192.0
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux; Ridgeway Capital LP: LEASE NO: ACREAGE: 7.16; 23.964; 28.54

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,406' TVD
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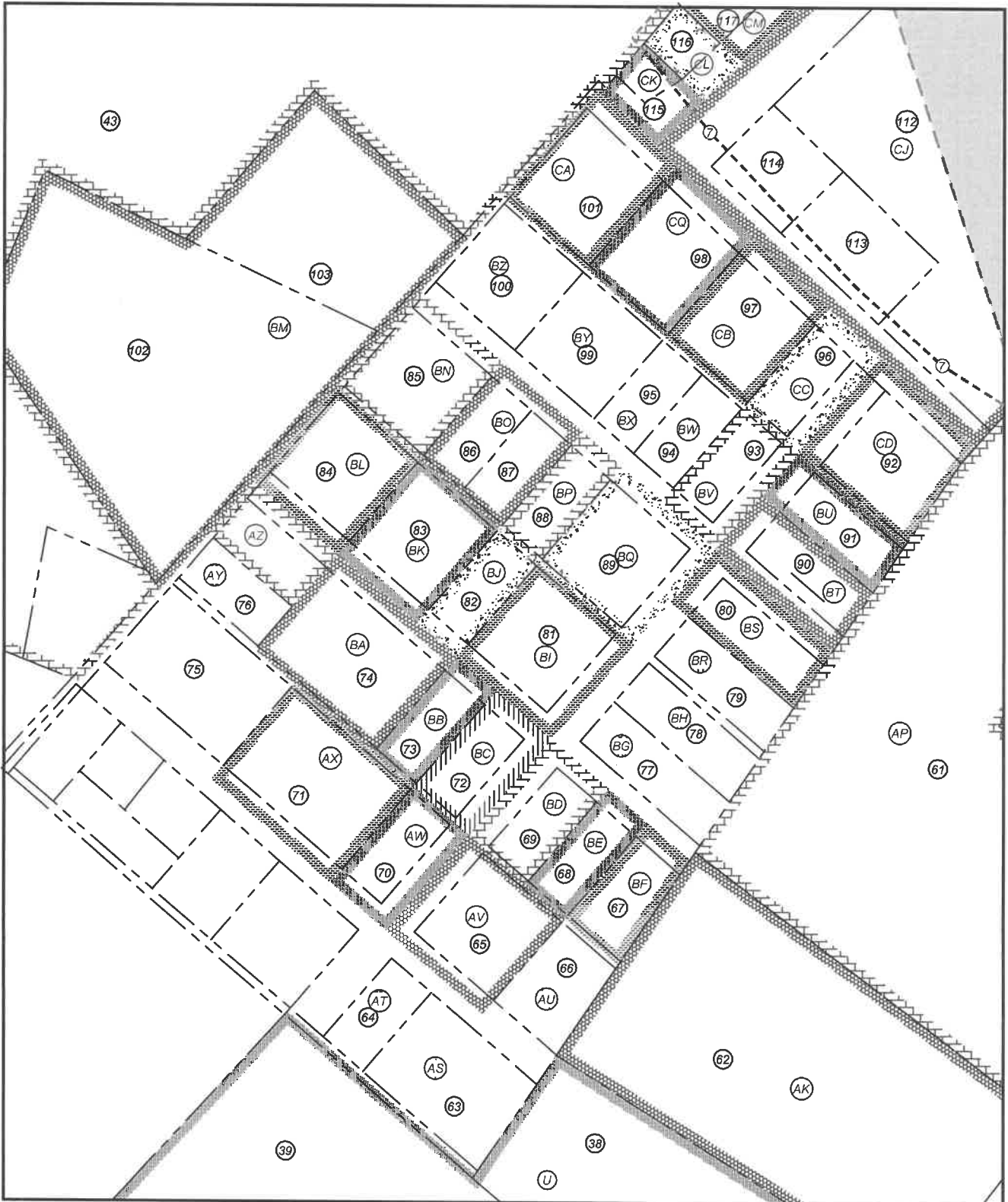
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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,406' TVD
14,509' MD

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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 14,509' MD 6,406' TVD

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04/02/2021

Antero Resources
Well No. Lancaster Unit 2H
As-Drilled
Antero Resources Corporation

Page 4 of 4

Leases

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AJ	Frankie Dean Goudy, et ux
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AM	David I. Farhatt, et ux
AN	Lemuel Hugh Moore
AO	Jeffrey A. Lancaster, et ux
AP	Eamestine Pelikan
AQ	Meiinda Leasure
AR	Eamestine Pelikan, et vir
AS	Bessie L. Matthews, et vir
AT	Betty Lou Hadley
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AV	Betty Lou Hadley
AW	Betty Lou Hadley
AX	Stephen D. Ashley, et ux
AY	Martha J. Hayes, et vir
AZ	Betty Lou Hadley
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CN	Kathleen Ross Mansuetto
CO	Michael A. Lenz, et ux
CP	WV Division of Natural Resources
CQ	Sara J. Judge
CR	WV Dept. of Transportation, DOH

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1	20-108	Michael J. & Melinda R. Hogue	348/404	192.00	74	20A-18	Roy D. Hadley	WB23/305	0.66
2	26-46	Jay-Bee Production Company	420/97	286.04	75	20A-16	James M. Glover	330/197	0.50
3	26-46.14	Jay-Bee Production Company	420/97	8.69	76	20A-17	Christopher L. Hayes, et al	342/212	0.17
4	26-46.12	Charles R. Holliday, et ux	306/665	3.238	77	20A-49.1	Roy D. Hadley	299/37	0.24
5	26-46.3	Timothy Kanz	440/24	5.4	78	20A-49	Rodney M. Hayes	353/649	0.48
6	26-46.2	Robert E. Lee II, et al	408/122	5.135	79	20A-48	Rodney M. Hayes	353/649	0.22
7	26-46.7	Camille Patera	296/247	7.32	80	20A-47	Rodney Mack Hayes	336/609	0.21
8	26-46.9	Eugene B. Johnson, Jr, et ux	351/160	5.00	81	20A-21	Roy D. Hadley	317/647	0.33
9	26-46.6	Camille Patera	296/247	1.702	82	20A-22	Roy D. Hadley	WB23/305	0.17
10	26-46.15	Camille Patera	296/247	3.722	83	20A-23	Connie Sue Tanner	327/883	0.33
11	26-46.1	Darrell L. Shrader	348/711	5.58	84	20A-24	Timothy & Tonya Stanley	581/792	0.33
12	26-46.16	Jay-Bee Production Company	420/97	5.09	85	20A-25	Nancy Glover	147/104	0.33
13	26-46.10	Leon & Drema Gailson	359/673	4.98	86	20A-26.1	Evelyn S. Smith	328/95	0.165
14	26-46.5	Richard Doty	493/673	13.14	87	20A-26	Evelyn S. Smith	332/691	0.165
15	26-21	Ryan Lee Walton, et ux	342/687	35.9	88	20A-27	John R. & Shirley R. Miller	227/273	0.17
16	20-107	David L. & Kathy A. Lancaster	314/344	18.89	89	20A-28	John R. & Shirley R. Miller	269/669	0.33
17	20-104	David Lancaster	210/505	57.004	90	20A-46	Emily L. Eddy	336/590	0.20
18	20-105.1	Terry Lee Fiber	335/682	6.06	91	20A-45	Arvil Shane Matthews	431/116	0.19
19	20-105	Joe & Shirley Varse	352/736	11.322	92	20A-44	Anna Blanche Cline	WB31/662	0.34
20	20-106	Eugene & Phyllis Howell	223/371	19.76	93	20A-29	Joe & Shirley Varse	361/88	0.17
21	20-99	Pioneer Land Company, LLC	431/414	10	94	20A-30	John M. Hammell, et al	WV37/331	0.17
22	20-106.1	Lee Ann Hall	486/806	5.493	95	20A-31	John M. Hammell, et al	WV37/331	0.17
23	20-106.2	Nancy Forester	328/633	5.429	96	20A-43	Charles J. & Donna Mead	344/588	0.17
24	20-100	Eugene F. & Phyllis Howell	326/749	42.85	97	20A-41	Carolyn Barnhart	348/286	0.34
25	20-101	Henderson Cemetery	OS15/137	0.78	98	20A-40	Barry W. & Linda K. Harter	288/516	0.36
26	20-70	Nina Wise	WB25/700	3.91	99	20A-32	James W. Chapman	348/630	0.33
27	20-69	Jerry Williams, et al	440/471	1.5	100	20A-33	Charles L. & Karen S. Roberts	306/558	0.55
28	20-68	Barbara J. Davis	WB30/311	2.09	101	20A-34	Robert E. Judge	545/765	0.37
29	20-67	William M. & Janet S. Baker	175/391	2.10	102	20-46.1	Betty Tustin	WB45/156	2.476
30	20-100.1	Jacqueline E. Miller	375/626	4.202	103	20-47	Betty Tustin	WB45/156	1
31	20-93.5	Nina Smith & Mary Bennett	308/115	2.88	104	20-87.2	David & Melinda Leasure	252/581	0.50
32	20-93.1	Vernon Stevens	423/703	2.14	105	20-87.1	Eamestine & William Pelikan	242/631	0.77
33	20-93	Robert C. Kramer	547/650	23.964	106	20-88	Upper Ohio Soil Conservation Dist.	233/495	2.36
34	20-54	William M. Baker, et ux	175/391	100.45	107	20-51.3	John & Diana Stender	269/180	2.04
35	20-53	Clara Negie	344/51	8	108	20-51.5	Neil Archer	355/12	2.513
36	20-57	William M. Baker, et ux	189/374	7.5	109	20-51.4	Clara Wells	342/464	2.512
37	20-92	Charles & Doris Anderson	210/359	27	110	20-51	Clara Wells	342/464	1.005
38	20-86	Ruth E. Blake	317/103	23.75	111	20-50	Thomas Wagner	356/410	0.93
39	20-44.1	Ruth E. Blake	317/103	10.17	112	20A-38	Tyler County BOE	211/575	2.5
40	20-51.6	Brian & Sarah Carpenter	342/467	24.92	113	20A-42	Tyler County BOE	175/181	0.22
41	20-33	Lance M. & Tina R. Hickman	396/561	77.84	114	20A-3	Tyler County BOE	143/292	0.26
42	20-49	Samuel O. Wagner	327/411	3.37	115	20A-35	James D. Hardesty	372/186	0.06
43	20-46	Betty Tustin	350/386	29.66	116	20A-36	Tina M. Barnhart	373/828	0.08
44	20-33.3	Richard Fonner	415/796	18.5	117	20A-37	Tyler County Commission	332/574	0.50
45	20-93.7	Charles & Tara Templeton	234/790	4.05	118	20-48	Tyler County Commission	336/13	0.30
46	20-93.3	Wanna Hayes	347/293	3.25	119	4-128	Patty K. Long	AR45/571	0.10
47	20-93.2	Brian Scott Foland	WB58/423	2	120	4-126	William Long	WB32/551	0.07
48	20-93.4	Brian Scott Foland	WB58/423	2	121	4-112	James A. White II	357/177	0.285
49	20-95	Bernard & Tammie Hayes	321/108	3.91	122	4-113	Patricia Hess	249/263	0.22
50	20-96	Robert L. & Dorothy L. Berry	230/37	2.416	123	4-114	Donnie G. & Tawnya D. Rose	353/475	0.22
51	20-54.1	Bradley Baker	355/823	2	124	4-115	Kenneth I. Sinclair	342/566	0.22
52	20-94	Charles & Doris Anderson	217/398	2.806	125	4-120	Ann W. Galindo	WB25/479	0.44
53	20-52	Jeffery & Deborah Watson	270/234	1.03	126	4-121	Kenneth I. Sinclair	342/566	0.386
54	20-90	F. Dean & Shirley Kimble	303/340	2.42	127	4-122	Joseph E. McLaughlin, et ux	432/294	0.276
55	20-91	Larry H. & Shirley I. Kimble	212/435	1.13	128	4-125.1	James A. & Heidi M. Suter	354/511	0.66
56	20-89.2	David L. & Pamela C. Farhatt	375/1	0.848	129	4-125	Ann W. Galindo	WB25/479	0.88
57	20-51.2	John & Diana Stender	255/47	0.32	130	20-23.1	Michael & Chris Lenz	323/732	5.517
58	20-51.1	John & Diana Stender	255/47	2.04	131	20-23	Michael & Chris Lenz	313/216	4.595
59	20-89	John F. & Hailee Stender	538/343	0.92	132	20-25	Marshal McKinney	208/650	0.92
60	20-89.1	Jefferey A. Lancaster, et ux	348/471	1.18	133	20-24	Leslie A. Henderson	312/293	0.34
61	20-87	Eamest Leasure, et al	275/579	6.39	134	20-26	Nancy Mercer	198/157	0.52
62	20-86.1	Eamest Leasure, et al	321/160	3.37	135	20-22	Nancy Mercer	WB32/425	0.34
63	20A-54	Bessie L. Matthews, et vir	521/634	0.46	136	20-32	Homer Lee Matthews	176/216	0.34
64	20A-55	Roy & Betty Lou Hadley	350/341	0.17	137	20-33.2	Homer Matthews	284/375	0.28
65	20A-53	Deloris Gully	AR40/97	0.33	138	20-31	Larry & Barbara Lee	211/179	0.34
66	20A-52	Betty Lou Hadley	579/652	0.2433	139	20-21	Nancy Mercer	WB32/425	0.34
67	20A-51.1	Crystal Christophel	WB19/379	0.16	140	20-109	Lorraine Weekley	AR49/717	0.24
68	20A-51	Shiri A. Henderson	WB19/379	0.17	141	20-27	Earl P. & Crucita Kendle	331/341	0.32
69	20A-50	Laura June Smith	AR48/562	0.1653	142	20-29.1	James Bemby	331/43	0.25
70	20A14	Roy D. Hadley	322/696	0.17	143	20-29	Maurine Hadley	167/89	0.34
71	20A-15	Stephen & Brenda J. Ashley	317/183	0.50	144	20-28	Victor & Lorraine Weekley	280/422	0.23
72	20A-20	Betty Hadley	470/683	0.1653	145	20-30	Donald & Susan Smith	321/422	0.26
73	20A-19	Roy D. Hadley	WB23/305	0.17	146	20-93.6	Robert C. Kramer	547/650	4.0

FILE NO: 11-54-E-19

DRAWING NO: Lancaster Unit 2H As-Drilled

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: December 30 2020

OPERATOR'S WELL NO. Lancaster 2H

API WELL NO

47 - 095 - 02675

STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne

DISTRICT: Ellsworth

COUNTY: Tyler

SURFACE OWNER: Michael J. & Melinda R. Hogue Robert C. Kramer; John Valentour; WV Division of Natural Resources; Eugene F. Howell, et ux; Charles E. Anderson, et ux; Bernard M. Hayes, et ux;

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LEASE NO: ACREAGE: 7.16; 23.964; 28.54

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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: 6,406' TVD 14,509' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Dianna Stamper - CT Corporation System

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04/02/2021

Antero Resources
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BO	William H. Eddy
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BR	Rodney Mack Hayes
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BV	Avril Shane Matthews
BW	Thurl Wayne Jones
BX	Brenda Lee Oyster
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13	26-46.10	Leon & Drema Gailson	359/673	4.98	86	20A-26	Evelyn S. Smith	328/95	0.165
14	26-46.5	Richard Doty	493/673	13.14	87	20A-26.1	Evelyn S. Smith	332/691	0.165
15	26-21	Ryan Lee Walton, et ux	342/687	35.9	88	20A-27	John R. & Shirley R. Miller	227/273	0.17
16	20-107	David L. & Kathy A. Lancaster	314/344	18.89	89	20A-28	John R. & Shirley R. Miller	269/669	0.33
17	20-104	David Lancaster	210/505	57.004	90	20A-46	Emily L. Eddy	336/590	0.20
18	20-105.1	Terry Lee Fiber	335/682	6.06	91	20A-45	Arvit Shane Matthews	431/116	0.19
19	20-105	Joe & Shirley Varse	352/736	11.322	92	20A-44	Anna Blanche Cline	WB31/662	0.34
20	20-106	Eugene & Phyllis Howell	223/371	19.76	93	20A-29	Joe & Shirley Varse	361/88	0.17
21	20-99	Pioneer Land Company, LLC	431/414	10.7	94	20A-30	John M. Hammell, et al	WB37/331	0.17
22	20-106.1	Lee Ann Hall	486/806	5.493	95	20A-31	John M. Hammell, et al	WB37/331	0.17
23	20-106.2	Nancy Forester	328/633	5.429	96	20A-43	Charles J. & Donna Mead	344/588	0.17
24	20-100	Eugene F. & Phyllis Howell	326/749	42.85	97	20A-41	Carolyn Barnhart	348/286	0.34
25	20-101	Henderson Cemetery	OS15/137	0.78	98	20A-40	Barry W. & Linda K. Harter	288/516	0.36
26	20-70	Nina Wise	WB25/700	3.91	99	20A-32	James W. Chapman	348/630	0.33
27	20-69	Jerry Williams, et al	440/471	1.5	100	20A-33	Charles L. & Karen S. Roberts	306/558	0.55
28	20-68	Barbara J. Davis	WB30/311	2.09	101	20A-34	Robert E. Judge	545/765	0.37
29	20-67	William M. & Janet S. Baker	175/391	2.10	102	20-46.1	Betty Tustin	WB45/156	2.476
30	20-100.1	Jacqueline E. Miller	375/626	4.202	103	20-47	Betty Tustin	WB45/156	1
31	20-93.5	Nina Smith & Mary Bennett	308/115	2.88	104	20-87.2	David & Melinda Leasure	252/581	0.50
32	20-93.1	Vernon Stevens	423/703	2.14	105	20-87.1	Earnestine & William Pelikan	242/631	0.77
33	20-93	Robert C. Kramer	547/650	23.964	106	20-88	Upper Ohio Soil Conservation Dist.	233/495	2.36
34	20-54	William M. Baker, et ux	175/391	100.45	107	20-51.3	John & Diana Stender	269/180	2.04
35	20-53	Clara Negie	344/51	8	108	20-51.5	Neil Archer	355/12	2.513
36	20-57	William M. Baker, et ux	189/374	7.5	109	20-51.4	Clara Wells	342/464	2.512
37	20-92	Charles & Doris Anderson	210/359	27	110	20-51	Clara Wells	342/464	1.005
38	20-86	Ruth E. Blake	317/103	23.75	111	20-50	Thomas Wagner	356/410	0.93
39	20-44.1	Ruth E. Blake	317/103	10.17	112	20A-38	Tyler County BOE	211/575	2.5
40	20-51.6	Brian & Sarah Carpenter	342/467	24.92	113	20A-42	Tyler County BOE	175/181	0.22
41	20-33	Lance M. & Tina R. Hickman	396/561	77.84	114	20A-3	Tyler County BOE	143/292	0.26
42	20-49	Samuel O. Wagner	327/411	3.37	115	20A-35	James D. Hardesty	372/186	0.06
43	20-46	Betty Tustin	350/386	29.66	116	20A-36	Tina M. Barnhart	373/828	0.08
44	20-33.3	Richard Fonner	415/796	18.5	117	20A-37	Tyler County Commission	332/574	0.50
45	20-93.7	Charles & Tara Templeton	234/790	4.05	118	20-48	Tyler County Commission	336/13	0.30
46	20-93.3	Wanna Hayes	347/293	3.25	119	4-128	Patty K. Long	AR45/571	0.10
47	20-93.2	Brian Scott Foland	WB58/423	2	120	4-126	William Long	WB32/551	0.07
48	20-93.4	Brian Scott Foland	WB58/423	2	121	4-112	James A. White II	357/177	0.285
49	20-95	Bernard & Tammie Hayes	321/108	3.91	122	4-113	Patricia Hess	249/263	0.22
50	20-96	Robert L. & Dorothy L. Berry	230/37	2.416	123	4-114	Donnie G. & Tawyna D. Rose	353/475	0.22
51	20-54.1	Bradley Baker	355/823	2	124	4-115	Kenneth I. Sinclair	342/566	0.22
52	20-94	Charles & Doris Anderson	217/398	2.806	125	4-120	Ann W. Galindo	WB25/479	0.44
53	20-52	Jeffery & Deborah Watson	270/234	1.03	126	4-121	Kenneth I. Sinclair	342/566	0.386
54	20-90	F. Dean & Shirley Kimble	303/340	2.42	127	4-122	Joseph E. McLaughlin, et ux	432/294	0.276
55	20-91	Larry H. & Shirley I. Kimble	212/435	1.13	128	4-125.1	James A. & Heidi M. Suter	354/511	0.66
56	20-89.2	David L. & Pamela C. Farhatt	375/1	0.848	129	4-125	Ann W. Galindo	WB25/479	0.88
57	20-51.2	John & Diana Stender	255/47	0.32	130	20-23.1	Michael & Chris Lenz	323/732	5.517
58	20-51.1	John & Diana Stender	255/47	2.04	131	20-23	Michael & Chris Lenz	313/216	4.595
59	20-89	John F. & Hailie Stender	538/343	0.92	132	20-25	Marshall McKinney	208/650	0.92
60	20-89.1	Jefferey A. Lancaster, et ux	348/471	1.18	133	20-24	Leslie A. Henderson	312/293	0.34
61	20-87	Earnest Leasure, et al	275/579	6.39	134	20-26	Nancy Mercer	198/157	0.52
62	20-86.1	Earnest Leasure, et al	321/160	3.37	135	20-22	Nancy Mercer	WB32/425	0.34
63	20A-54	Bessie L. Mathews, et vir	521/634	0.46	136	20-32	Homer Lee Matthews	176/216	0.34
64	20A-55	Roy & Betty Lou Hadley	350/341	0.17	137	20-33.2	Homer Matthews	284/375	0.28
65	20A-53	Deloris Guley	AR40/97	0.33	138	20-31	Larry & Barbara Lee	211/179	0.34
66	20A-52	Betty Lou Hadley	579/652	0.2433	139	20-21	Nancy Mercer	WB32/425	0.34
67	20A-51.1	Crystal Christophel	WB19/379	0.16	140	20-109	Lorraine Weekley	AR49/717	0.24
68	20A-51	Shiri A. Henderson	WB19/379	0.17	141	20-27	Earl P. & Crucita Kendle	331/341	0.32
69	20A-50	Laura June Smith	AR48/562	0.1653	142	20-29.1	James Bembry	331/43	0.25
70	20A14	Roy D. Hadley	322/696	0.17	143	20-29	Maurine Hadley	167/69	0.34
71	20A-15	Stephen & Brenda J. Ashley	317/183	0.50	144	20-28	Victor & Lorraine Weekley	280/422	0.23
72	20A-20	Betty Hadley	470/683	0.1653	145	20-30	Donald & Susan Smith	321/422	0.26
73	20A-19	Roy D. Hadley	WB23/305	0.17	146	20-93.6	Robert C. Kramer	547/650	4.0

FILE NO: 11-54-E-19
DRAWING NO: Lancaster Unit 2H As-Drilled
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV



DATE: December 30 2020
OPERATOR'S WELL NO. Lancaster 2H
API WELL NO
47 - 095 - 02675
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
DISTRICT: Ellsworth COUNTY: Tyler
SURFACE OWNER: Michael J. & Melinda R. Hogue Robert C. Kramer; John Valentour; WV Division of Natural Resources; Eugene F. Howell, et ux; Charles E. Anderson, et ux; Bernard M. Hayes, et ux; ACREAGE: 192.0
ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux; Ridgetop Capital LP; LEASE NO: ACREAGE: 7.16; 23.964; 28.54
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,406' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 14,509' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313