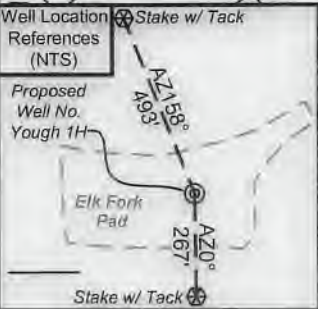
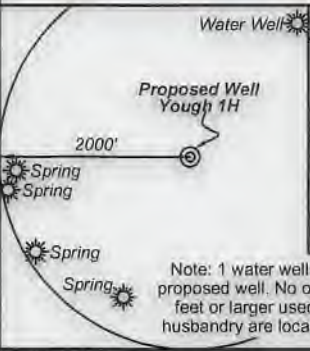


Antero Resources
Well No. Yough 1H
BHL MOD
 Antero Resources Corporation



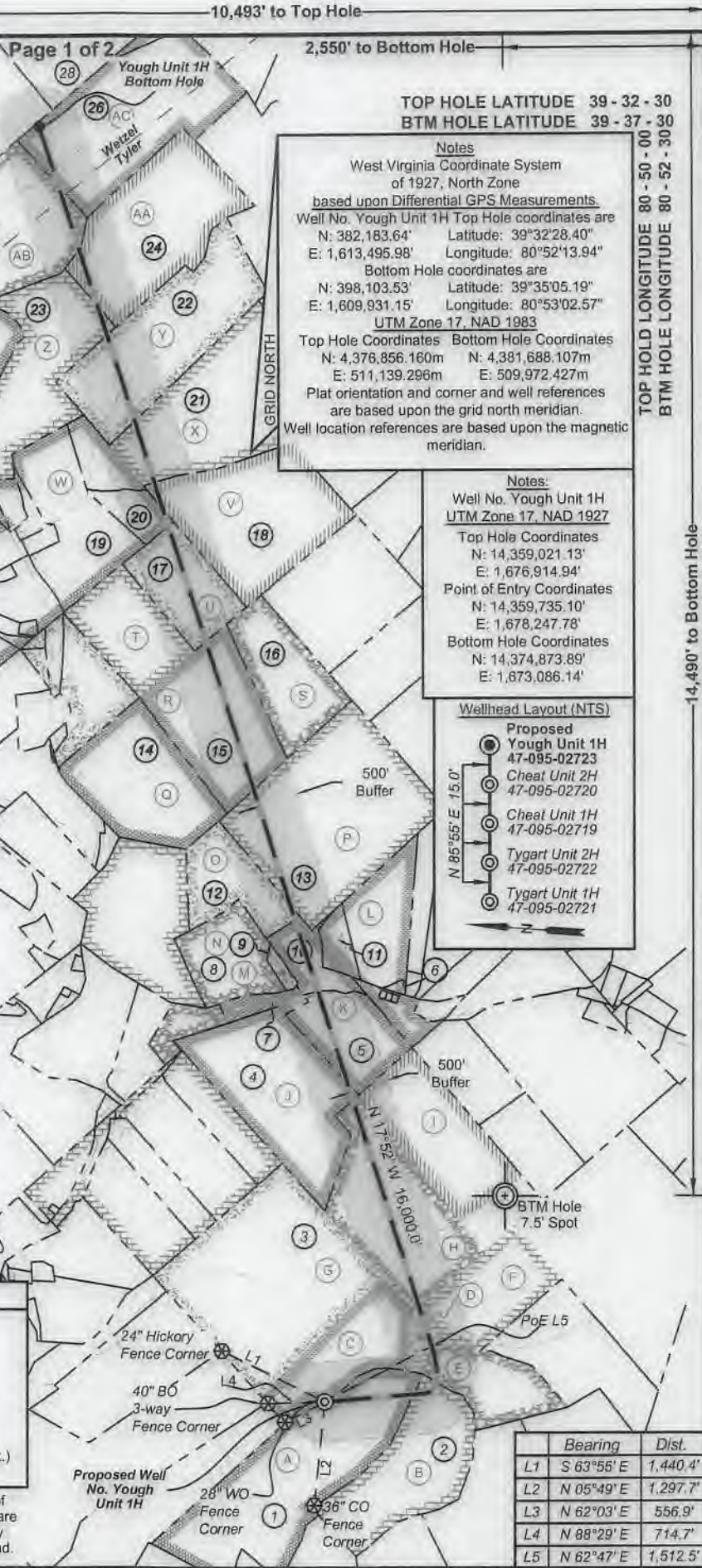
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167



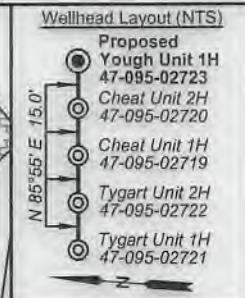
- Legend**
- Proposed gas well
 - Monument, as noted
 - Existing Well, as noted
 - Creek or Drain
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - County Line

Note: 1 water wells and 4 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.



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Yough Unit 1H Top Hole coordinates are
 N: 382,183.64' Latitude: 39°32'28.40"
 E: 1,613,495.98' Longitude: 80°52'13.94"
 Bottom Hole coordinates are
 N: 398,103.53' Latitude: 39°35'05.19"
 E: 1,609,931.15' Longitude: 80°53'02.57"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,376,856.160m N: 4,381,688.107m
 E: 511,139.296m E: 509,972.427m
 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. Yough Unit 1H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,359,021.13'
 E: 1,676,914.94'
 Point of Entry Coordinates
 N: 14,359,735.10'
 E: 1,678,247.78'
 Bottom Hole Coordinates
 N: 14,374,873.89'
 E: 1,673,086.14'



Bearing	Dist.
L1 S 63°55' E	1,440.4'
L2 N 05°49' E	1,297.7'
L3 N 62°03' E	556.9'
L4 N 88°29' E	714.7'
L5 N 62°47' E	1,512.5'

FILE NO: 832-54-E-19
 DRAWING NO: Yough Unit 1H BHL MOD
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: December 17 20 20
 OPERATOR'S WELL NO. Yough 1H
 API WELL NO
 47 - 095 - 02723
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,126' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Top Hole:Porter Falls
 DISTRICT: Ellsworth/Magnolia COUNTY: Tyler 82.06;
 SURFACE OWNER: Patricia Ann Heintzman Robert D. Wetzel; 76.25; 53.75; 30; 58.6;
 ROYALTY OWNER: Patricia Ann Heintzman; Gary A. & Penny K. Midcap; Harold Skinner; Joel Potts, III; Lomax R. Kunkel (2); 67; 60; 28.8375; 48; 67;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD ACREAGE: 73.26
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,500' MD LEASE NO: ACREAGE: 62.18; 59.75; 63.3125

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



ID	TM/Par	Owner	Bk/Pg	Acres
1	10-2	Patricia Ann Heintzman	W13/384	73.26
2	10-3	Kevin S. & Melinda S. Goff	597/808	53.75
3	6-36	Dennis & Clista Heintzman	297/640	417.60
4	6-24	Harold Skinner	204/595	62.18
5	6-25.2	Kevin Lee Fletcher	328/723	32.00
6	6-17.3	Tracy Postlewait	354/74	3.00
7	6-25.1	Kevin Lee Fletcher	328/723	5.76
8	6-16.4	Michael L. Roberts	407/45	27.74
9	6-16.5	James M. & Sherry Starkey	344/785	24.44
10	6-25	William L. McClain	253/323	11.87
11	6-17	William McClain	297/87	10.24
12	6-16.5	James M. & Sherry Starkey	344/785	24.44
13	6-6	Gary A. & Penny K. Midcap	301/265	100.00
14	6-4	James D. Vancamp, et al	W38/144	46.76
15	6-5	Gary A. & Penny K. Midcap	301/265	75.55
16	3-32	Gary A. & Penny K. Midcap	301/265	38.09
17	3-42	Rosalie B. Henry	362/339	27.00
18	3-24	Gary A. & Penny K. Midcap	301/265	66.50
19	3-40	Rosalie Henry	170/006	46.21
20	3-41	Gary A. & Penny K. Midcap	296/518	7.00
21	3-18	Gary Midcap	322/108	80.33
22	3-13	Lomax R. Kunkel	297/692	63.50
23	3-12	Lomax R. Kunkel	297/692	57.51
24	3-8	Steven D. & Brenda M. Higgins	313/623	67.00
25	16-65	Kenneth W. & Norma A. Headley	355/347	58.60
26	16-67	Robert D. Wetzel	404/372	82.06
27	16-59	Kenneth W. & Norma A. Headley	355/347	47.75
28	16-61	Kenneth W. & Norma A. Headley	355/347	41.75

Leases	
A	Patricia Ann Heintzman
B	Nina & Phillip Whitefield
C	Norma Smith
D	BRC Appalachian Minerals I, LLC
E	Nina A. Whitefield
F	Larry R. and Kim M. Henthorn
G	Dennis R. Heintzman, et ux
H	BRC Appalachian Minerals I, LLC
I	BRC Appalachian Minerals I, LLC
J	Harold Skinner
K	Antero Minerals, LLC
L	Larry F. Hughes
M	Judy P. Meyers
N	Brenda L. Martin
O	Judy P. Meyers
P	Gary A. Midcap, et ux
Q	James D. VanCamp, et al
R	James D. VanCamp, et al
S	James D. VanCamp, et al
T	Penny G. Bond
U	Linda Allen
V	John W. Bucher
W	James D. VanCamp, et al
X	Gary A. & Penny K. Midcap
Y	Lowmax R. Kunkel
Z	Lowmax R. Kunkel
AA	Joel Potts III
AB	BRC Appalachian Minerals, I LLC
AC	Robert D. Wetzel
AD	OPEN

FILE NO: 832-54-E-19
 DRAWING NO: Yough Unit 1H BHL MOD
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV


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

DATE: December 17 2020
 OPERATOR'S WELL NO. Yough 1H
 API WELL NO
 47 - 095 - 02723
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,126' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Top Hole:Porter Falls
 BTM Hole:Paden City

DISTRICT: Ellsworth/Magnolia COUNTY: Top Hole Tyler 82.06;
 BTM Hole Wetzel 76.25; 53.75; 30; 58.6;

SURFACE OWNER: Patricia Ann Heintzman ACREAGE: 73.26 67; 60; 28.8375; 48; 67;

ROYALTY OWNER: Patricia Ann Heintzman; Nina & Phillip Whitefield; Nina A. Whitefield; Larry R. & Kim M. Henthorn; LEASE NO: ACREAGE: 62.18; 59.75; 63.3125

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 7,000' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,500' 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



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FILE NO: 832-54-E-19
 DRAWING NO: Yough Unit 1H BHL MOD
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
Submeter
 PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV



DATE: December 17 2020
 OPERATOR'S WELL NO. Yough 1H
 API WELL NO
47 - 095 - 02723
 STATE COUNTY PERMIT

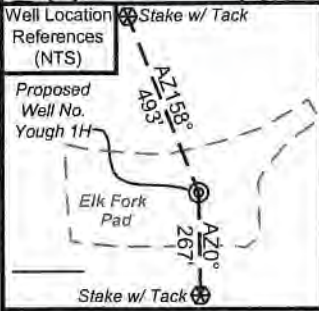
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
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LOCATION: ELEVATION: As-Built 1,126' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Top Hole:Porter Falls
BTM Hole:Paden City
 DISTRICT: Ellsworth/Magnolia COUNTY: Top Hole Tyler 82.06;
BTM Hole Wetzel 67; 60; 28.8375; 48; 67;
 SURFACE OWNER: Patricia Ann Heintzman ROYALTY OWNER: Patricia Ann Heintzman; Nina & Phillip Whitefield; Nina A. Whitefield; Larry R. & Kim M. Henthorn; LEASE NO: _____ ACREAGE: 73.26 100; 24.44; 48.5; 27;
 86.5; 151.08; 162.125;
 62.18; 59.75; 63.3125

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,500' MD

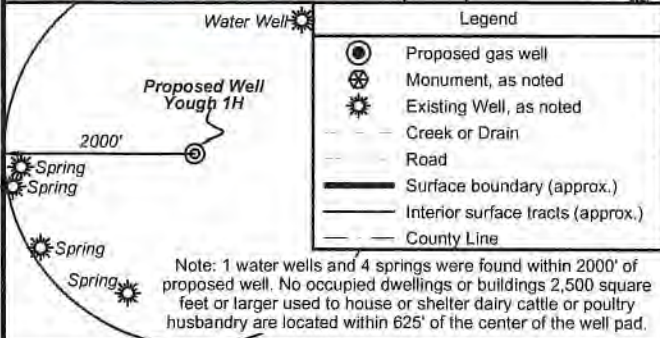
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 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

Antero Resources
Well No. Yough 1H
BHL MOD
 Antero Resources Corporation

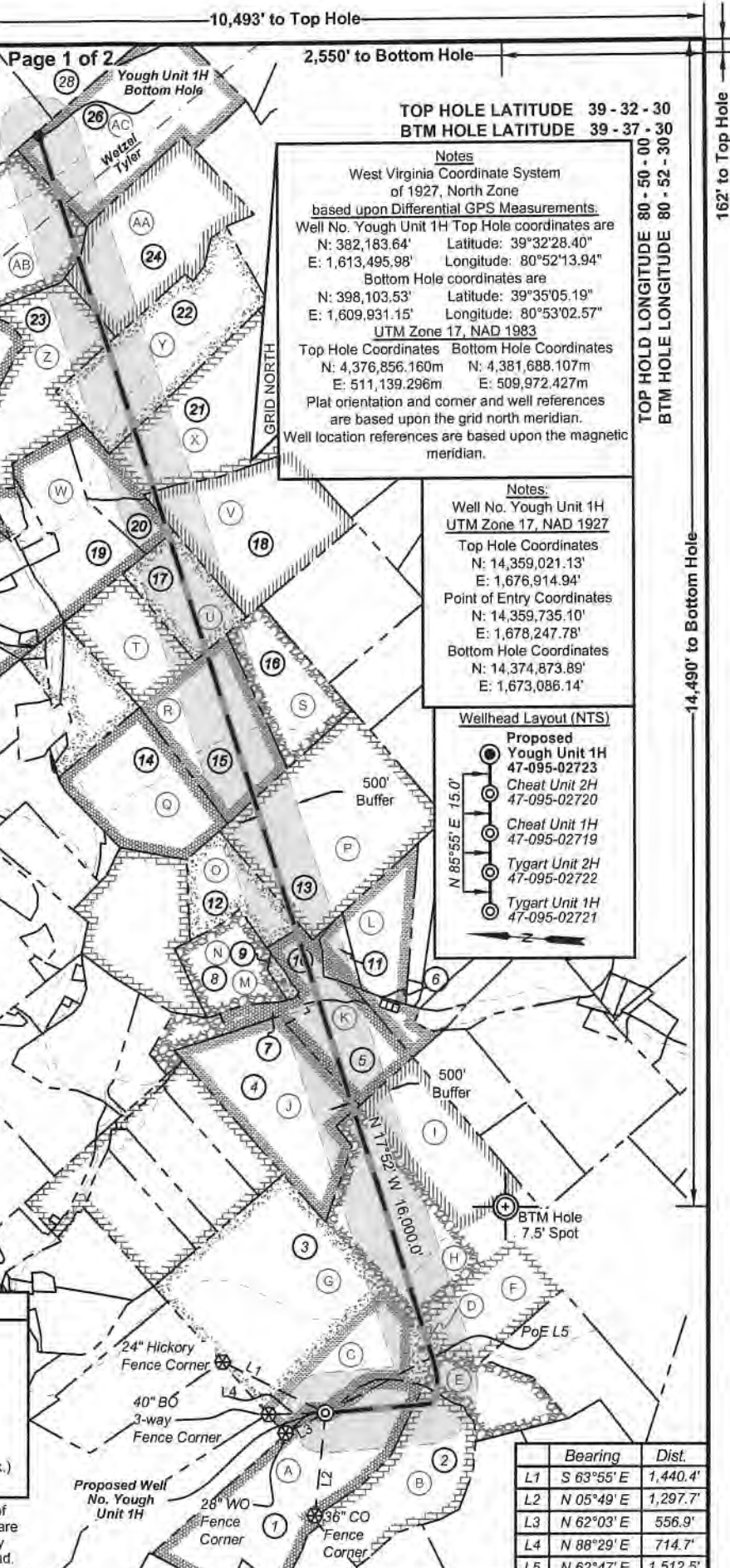


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Bradley D. Miller
 Bradley D. Miller, P.S. 2167



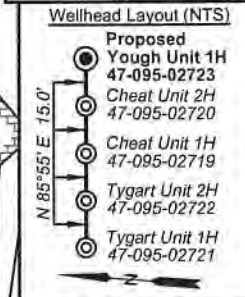
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TOP HOLE LATITUDE 39 - 32 - 30
BTM HOLE LATITUDE 39 - 37 - 30

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

DATE: December 17 2020
 OPERATOR'S WELL NO. Yough 1H
 API WELL NO
 47 - 095 - 02723
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,126' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Top Hole:Porter Falls
 DISTRICT: Ellsworth/Magnolia COUNTY: Bottom Hole:Wetzel

SURFACE OWNER: Patricia Ann Heintzman ACREAGE: 73.26
 ROYALTY OWNER: Patricia Ann Heintzman; Nina & Phillip Whitefield; Nina A. Whitefield; Larry R. & Kim M. Henthorn; LEASE NO: ACREAGE: 62.18; 59.75; 63.3125

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