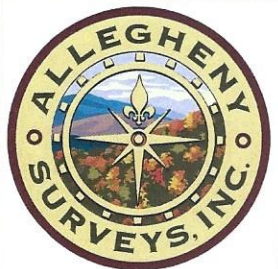


Antero Resources
Well No. Sophie 1H
BHL MOD
 Antero Resources Corporation

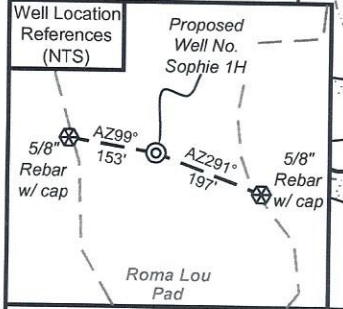


PAGE 1 of 2

10,869' to Bottom Hole
 4,490' to Top Hole
 TOP HOLE LATITUDE 39 - 30 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone
 based upon Differential GPS Measurements.
 Well No. Sophie Unit 1H Top Hole coordinates are
 N: 362,184.09' Latitude: 39°29'06.13"
 E: 1,583,917.35' Longitude: 80°58'27.27"
 Bottom Hole coordinates are
 N: 375,280.05' Latitude: 39°31'14.54"
 E: 1,577,735.92' Longitude: 80°59'48.88"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,370,612.486m N: 4,374,570.747m
 E: 502,229.659m E: 500,279.903m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

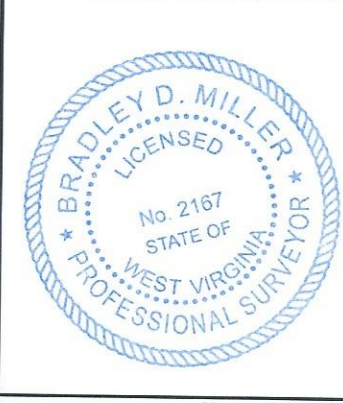
5,451' to Top Hole
 7,635' to Bottom Hole
 LONGITUDE 80 - 57 - 30



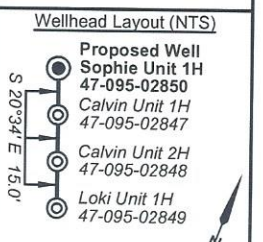
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

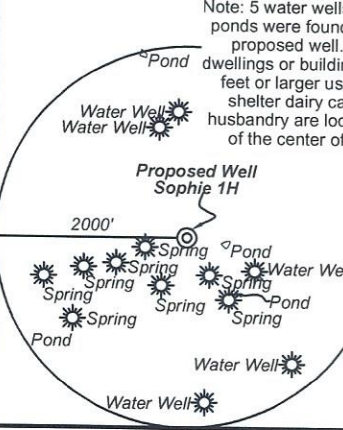
Bradley D. Miller, P.S. 2167



Notes:
 Well No. Sophie Unit 1H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,338,537.58'
 E: 1,647,684.31'
 Point of Entry Coordinates
 N: 14,338,003.02'
 E: 1,646,024.23'
 Bottom Hole Coordinates
 N: 14,351,524.06'
 E: 1,641,287.29'



	Bearing	Dist.
L1	S 75°46' W	1,734.3'
L2	N 80°14' W	1,419.5'
L3	N 09°14' W	1,601.7'
L4	N 71°33' E	2,149.6'
L5	S 73°06' W	1,744.6'



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.)
- District Line

FILE NO: 260-54-U-22
 DRAWING NO: Sophie 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: April 24 2023
 OPERATOR'S WELL NO. Sophie 1H
 API WELL NO
 47 - 095 - 02850
 STATE COUNTY PERMIT

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

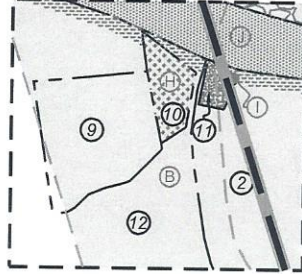
LOCATION: ELEVATION: As-Built 883' WATERSHED: Outlet Middle Island Creek QUADRANGLE: BH: Paden City
 DISTRICT: Union/Lincoln Ridgetop Royalties, LLC; Kevin L. Thomas, et ux; Donald H. Binegar, Jr, et ux; Ridgetop Appalachia, LLC; Shannon H. McCullough; Michael A. Howard; COUNTY: Tyler
 SURFACE OWNER: Antero Resources Corp. Haught Family Trust; Lester A. Smith, Jr.; David L. Stewart; Russell L. Bell; ACREAGE: 60.38
 ROYALTY OWNER: Berna J. Hammel; J&N Management Enterprises, LLC (2); Sally & Mitchell Dunn; Roma Hart LEASE NO: ACRES: 111.1; 59.9375; 26

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,600' 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



Detail (NTS)



ID	TM-Par	Owner	Bk/Pg	Acres
1	10-4.1	Antero Resources Corporation	OR12/739	60.38
2	9-9.1	Jennifer K. & Diane M. Thomas	AR46/754	40.00
3	10-4	Kevin L. & Tammy J. Thomas	OR7/290	32.22
4	9-13	Kevin L. & Tammy J. Thomas	OR7/290	2.00
5	9-12	Jimmy E. Patterson, et al	OR79/645	30.00
6	9-15.3	Billy D. & Roma L. Hart	WB21/443	4.50
7	9-16	Billy D. & Roma L. Hart	154/569	20.00
8	10-5.3	Richard Daniel Bowen	344/814	25.92
9	9-9.2	Samuel P. & Katina S. Smith	370/11	2.01
10	9-10	Jennifer K. & Diane M. Thomas	AR46/754	0.56
11	9-11	Jennifer K. & Diane M. Thomas	AR46/754	0.12
12	9-9	Patrick L. & Tammy M. Smith	341/695	58.50
13	9-4	Steven D. Zechman & Linda M. Jensen	348/422	250.00
14	5-16	Charity Gas Inc.	358/516	393.00
15	5-21	Lowell P. & Sharon D. Bee	348/149	180.60
16	5-15.3	David L. Stewart	WB39/431	38.00
17	5-15.2	Warren T. Stewart	501/702	40.00
18	5-13.1	Donald A. Quinif	308/511	57.69
19	5-14	Jeff Howard & Debra Metz	295/619	41.00
20	5-9	David L. Stewart	WB39/431	24.00
21	5-5	Antero Resources Corp.	598/600	173.00
22	5-3	Christopher D. & Betsy A. Metz	384/597	111.10
23	5-25	Clyde C. & Helen S. Dowler	168/90	27.00
24	5-6	Russell L. Bell	335/942	8.00
25	5-6.1	Russell L. Bell	335/940	18.00
26	11-12	Patrick & Kevin Hill, et al	584/619	59.95
27	11-47	John M. & Kara L. Garrett	656/399	82.39

Leases	
A	Berna J. Hammel
B	Mary Faye Grove
C	Sally & Mitchell Dunn
D	Kevin L. Thomas, et ux
E	Linda Lou Dennis
F	Roma Hart
G	J&N Management Enterprises, LLC
H	J&N Management Enterprises, LLC
I	J&N Management Enterprises, LLC
J	WVDNR
K	Steven D. Zechman & Linda M. Jensen
L	Haught Family Trust
M	Greenbrier Royalty Fund II, LLC
N	David L. Stewart
O	Warren T. Stewart
P	Norma L. Smith
Q	Ridgetop Appalachia, LLC
R	Lester A. Smith, Jr.
S	David L. Stewart
T	Donald H. Binegar, Jr, et ux
U	Michael A. Howard
V	Ridgetop Royalties
W	Russell L. Bell
X	Shannon H. McCullough

FILE NO: 260-54-U-22

DRAWING NO: Sophie 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: April 24 2023

OPERATOR'S WELL NO. Sophie 1H

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STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 883' WATERSHED: Outlet Middle Island Creek QUADRANGLE: BH: Paden City 41.95; 2.0; 27;
 DISTRICT: Union/Lincoln Ridgetop Royalties, LLC; Kevin L. Thomas, et ux; Donald H. Binegar, Jr, et ux; 60.38; 107.929;
 SURFACE OWNER: Antero Resources Corp. Haught Family Trust; Lester A. Smith, Jr.; David L. Stewart; Russell L. Bell; COUNTY: Tyler 38.87; 36.225;
 ROYALTY OWNER: Berna J. Hammel; J&N Management Enterprises, LLC (2); Sally & Mitchell Dunn; Roma Hart LEASE NO: ACREAGE: 60.38 57.23; 339.71; 58.70;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,600' MD 111.1; 59.9375; 26

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ADDRESS: 535 White Oaks Blvd.
 Bridgeport, WV 26330