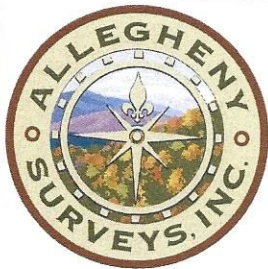


10,887' to Bottom Hole

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

PAGE 1 of 2

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

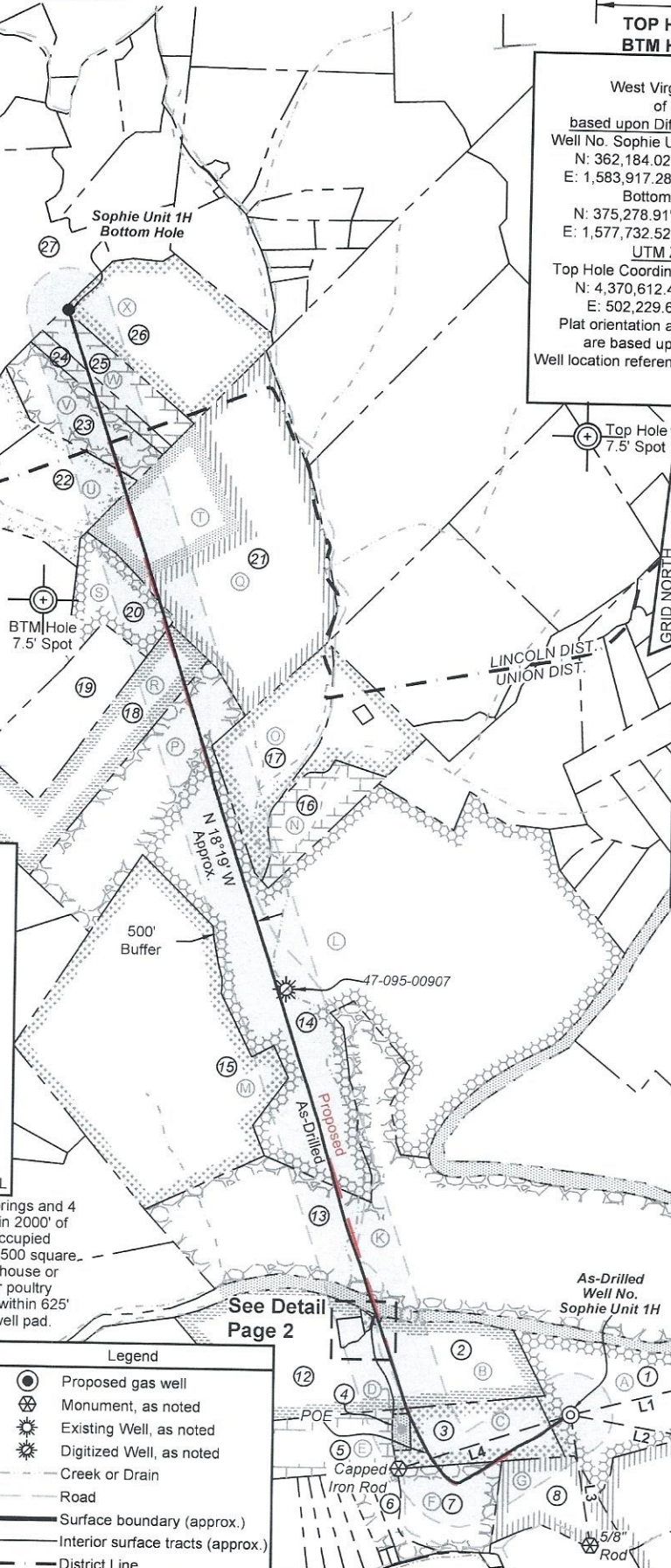


Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

Notes  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Sophie Unit 1H Top Hole coordinates are  
N: 362,184.02' Latitude: 39°29'06.13"  
E: 1,583,917.28' Longitude: 80°58'27.27"  
Bottom Hole coordinates are  
N: 375,278.91' Latitude: 39°31'14.53"  
E: 1,577,732.52' Longitude: 80°59'48.92"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,370,612.464m N: 4,374,570.382m  
E: 502,229.639m E: 500,278.873m  
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 - 57 - 30

5,451' to Top Hole  
7,636' to Bottom Hole



Sophie 1H As-Drilled POE Coordinates  
West Virginia Coordinate System of 1927, North Zone  
N: 361,693.96'  
E: 1,582,230.88'  
Latitude: 39°29'01.01"  
Longitude: 80°58'48.68"  
UTM Zone 17, NAD 1983  
N: 4,370,454.573m  
E: 501,718.366m

Wellhead Layout (NTS)

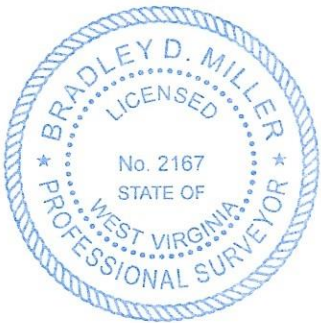
- As-Drilled Sophie Unit 1H 47-095-02850
- Calvin Unit 1H 47-095-02847
- Calvin Unit 2H 47-095-02848
- Loki Unit 1H 47-095-02849

	Bearing	Dist.
L1	S 75°46' W	1,734.4'
L2	N 80°14' W	1,419.5'
L3	N 09°14' W	1,601.6'
L4	N 71°33' E	2,149.6'

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.

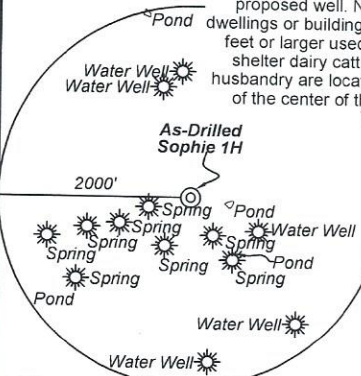
*Bradley D. Miller*

Bradley D. Miller, P.S. 2167



SEAL

Note: 5 water wells 8 springs and 4 ponds 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.



- 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

RECEIVED  
Office of Oil and Gas  
FEB 02 2024  
WV Department of Environmental Protection

FILE NO: 260-54-U-22  
DRAWING NO: Sophie Unit 1H As-Drilled  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

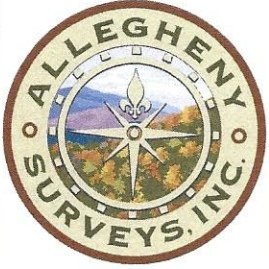
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: January 17 20 24  
OPERATOR'S WELL NO. Sophie 1H  
API WELL NO  
47 - 095 - 02850  
STATE COUNTY PERMIT

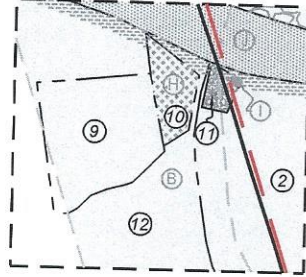
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built 883' WATERSHED: Outlet Middle Island Creek QUADRANGLE: BH: Paden City 41.95; 2.0; 27; 60.38; 107.929;  
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 06/20/2024  
SURFACE OWNER: Antero Resources Corp. Haught Family Trust; Lester A. Smith, Jr.; David L. Stewart; Russell L. Bell; ACREAGE: 60.38 57.23; 339.71; 58.70;  
ROYALTY OWNER: Berna J. Hammel; J&N Management Enterprises, LLC (2); Sally & Mitchell Dunn; Roma Hart LEASE NO: ACREAGE: 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) As-Drilled 5,975' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,838' 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)



RECEIVED  
 Office of Oil and Gas

FEB 02 2024

WV Department of  
 Environmental Protection

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

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 Submeter  
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