



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, October 2, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for RATA UNIT 1H
47-095-02895-00-00

Extended Lateral Length

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a white background.

James A. Martin
Chief

Operator's Well Number: RATA UNIT 1H
Farm Name: SHIRLEY J WELLS & SUSIE CUNNINGHAM
U.S. WELL NUMBER: 47-095-02895-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/2/2024

Promoting a healthy environment.

10/04/2024

*Out #4034484
7500
8/23/24*

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Antero Resources Corporation 494507062 095-Tyler Meade Bens Run
Operator ID County District Quadrangle

2) Operator's Well Number: Rata Unit 1H MOD Well Pad Name: Wrigley Pad

3) Farm Name/Surface Owner: Shirley J. Wells & Susie Cunningham Public Road Access: Rock Run Road

4) Elevation, current ground: 937' Elevation, proposed post-construction: _____

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal _____

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6500' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6500' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23900' MD

11) Proposed Horizontal Leg Length: 15943.8'

12) Approximate Fresh Water Strata Depths: 397'

13) Method to Determine Fresh Water Depths: 47-095-02593

14) Approximate Saltwater Depths: 1436', 1847'

15) Approximate Coal Seam Depths: None Identified

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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Steve Miley
10/04/2024
8-27-24

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	H-40	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	447'	447'	CTS, 466 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	23900'	23900'	CTS, 5095 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	24"	0.438"	1530	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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Stephen M. Key
 10/04/2024

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new shallow well and complete Marcellus Shale.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs
Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 28.45 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.35 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A/L cement.
Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake
Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

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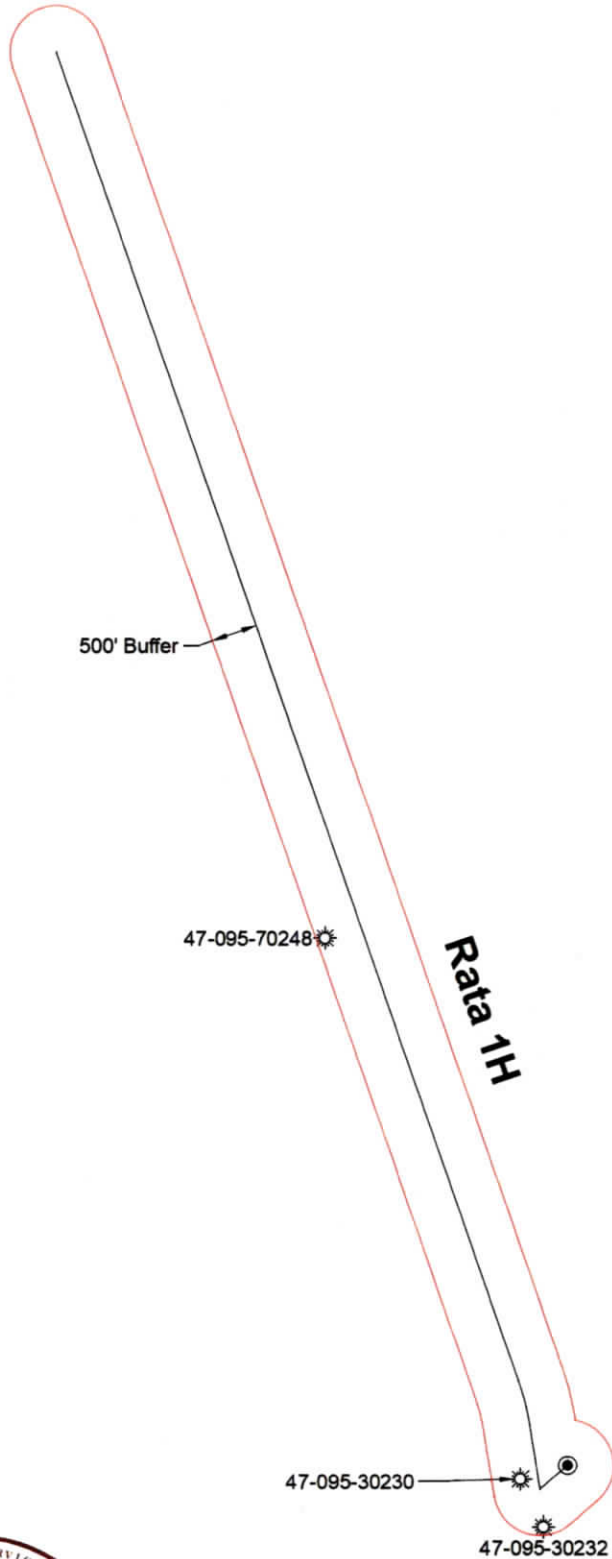
Stephen Muz
10/04/2024

LEGEND

- Proposed gas well
- ⊙ Existing Well, as noted
- ⊙ Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone



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WV Department of
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Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: D. Rader
RESEARCH: J. Miller	PREPARED: August 20, 2024
SURVEYED: Dec. 2016	PROJECT NO: 195-51-U-21
FIELD CREW: C.L., K.M.	DRAWING NO: Rata 1H BHL MOD AOR

Sheet 1 of 1



Scale: 1 Inch = 2000 Feet

10/04/2024

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095302300000								
47095302370000								
47095702480000	CLARK SMITH	2	CARTER OIL CO	CARTER OIL CO				

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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>A: Louis J. DeLoretta Lease</u>	Louis J. Deloretta	Antero Resources Corporation	1/8+	360/692

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**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation
By: Tim Rady
Its: Senior Vice President of Land

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<div style="border: 1px solid black; padding: 5px;"> <p>*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the</p> <p>M ci *Cotenancy Utilization - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.</p> <p>**Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract</p> </div>			

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



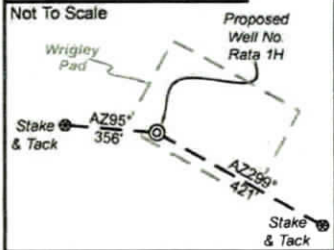
Page
1 of 2



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

Well Location References



Note: 8 water wells 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	N 74°19' E	3,062.2'
L2	S 78°11' E	2,168.4'
L3	S 19°17' W	1,001.9'
L4	N 51°13' W	2,913.9'
L5	N 61°30' W	426.9'

- Legend**
- Proposed gas well
 - ⊙ Monument, as noted
 - ⊛ Existing Well, as noted
 - ⊚ Digitized Well, as noted
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - District Line

FILE NO: 195-51-U-21
 DRAWING NO: Rata Unit 1H BHL MOD
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

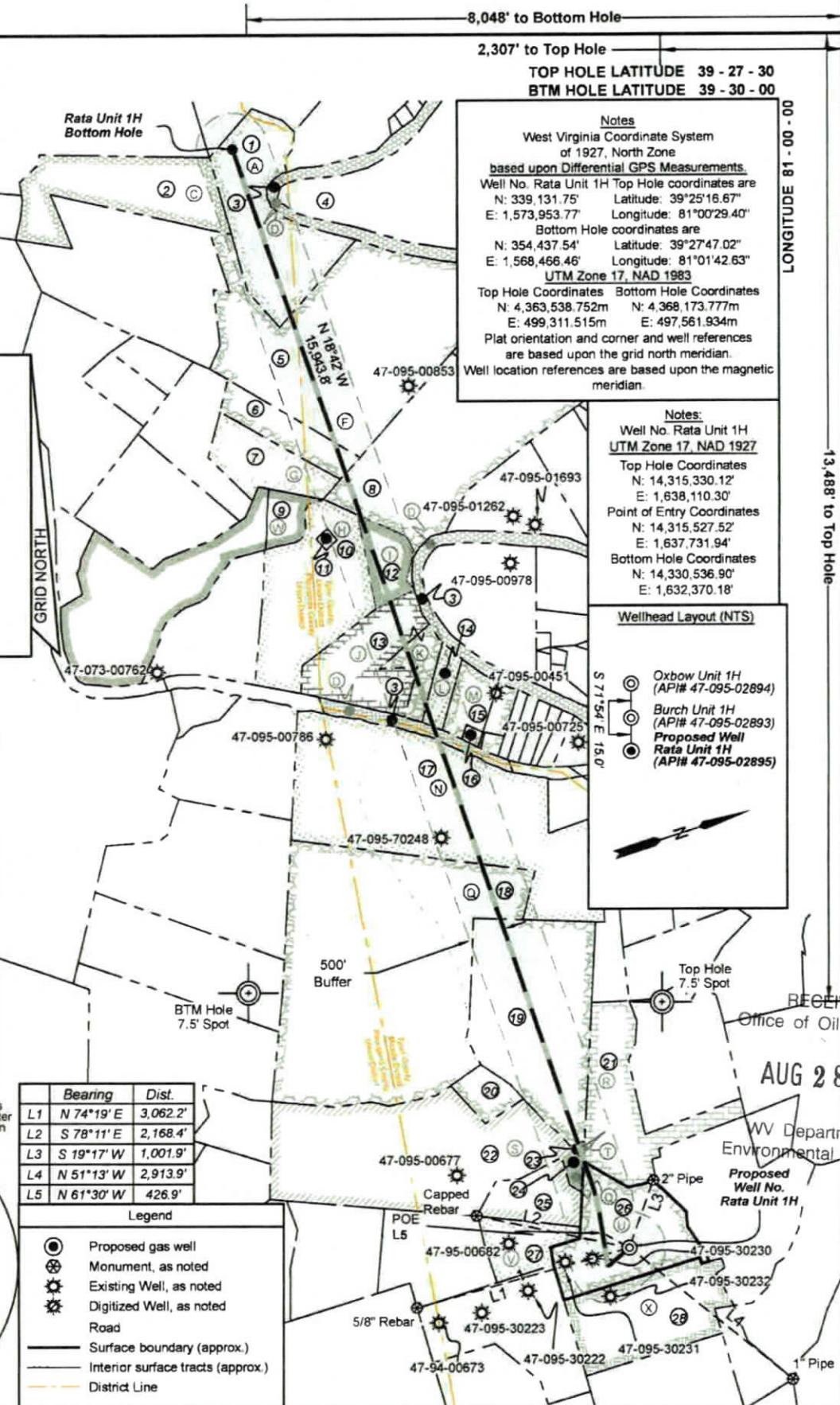
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: June 27 20 24
 OPERATOR'S WELL NO. Rata Unit 1H
 API WELL NO
 47 — 095 — 02895
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 937' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Bens Run
 DISTRICT: THL: Meade, BHL: Union COUNTY: THL: Tyler, BHL: Pleasants
 SURFACE OWNER: Shirley J. Wells & Suise Cunningham ACREAGE: 53.85
 ROYALTY OWNER: Antero Minerals, LLC LEASE NO: ACREAGE: 10/04/2024
 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: 6,500' TVD 23,900' 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



Notes
 West Virginia Coordinate System of 1927, North Zone
 based upon Differential GPS Measurements
 Well No. Rata Unit 1H Top Hole coordinates are
 N: 339,131.75' Latitude: 39°25'16.67"
 E: 1,573,953.77' Longitude: 81°00'29.40"
 Bottom Hole coordinates are
 N: 354,437.54' Latitude: 39°27'47.02"
 E: 1,568,466.46' Longitude: 81°01'42.63"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,363,538.752m N: 4,368,173.777m
 E: 499,311.515m E: 497,561.934m
 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. Rata Unit 1H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,315,330.12'
 E: 1,638,110.30'
 Point of Entry Coordinates
 N: 14,315,527.52'
 E: 1,637,731.94'
 Bottom Hole Coordinates
 N: 14,330,536.90'
 E: 1,632,370.18'

- Wellhead Layout (NTS)**
- ⊙ Oxbow Unit 1H (API# 47-095-02894)
 - ⊙ Burch Unit 1H (API# 47-095-02893)
 - ⊙ Proposed Well Rata Unit 1H (API# 47-095-02895)



8,048' to Bottom Hole
 2,307' to Top Hole
 TOP HOLE LATITUDE 39 - 27 - 30
 BTM HOLE LATITUDE 39 - 30 - 00
 00 - 00 - 18 LONGITUDE
 13,453' to Bottom Hole
 13,488' to Top Hole

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08-27-24



Leases	
A	Louis J. DeLoretta
C	Roy Emmett Huffman & Linda Gay Huffman
D	WVDNR
F	Lisa Krynaich
G	Antero Minerals, LLC
H	Bobbin E. Pardine
I	Robert H. Weaver
J	Greenbrier Royalty Fund II, LLC
K	Nancy Thomas
L	Ann Wells Clutter
M	BRC Appalachian Minerals I, LLC
N	Wells Cattle Farms, Inc.
Q	Greenbrier Royalty Fund II, LLC
R	Richard W. Barnhart, Jr.
S	Vicki Bonner
T	Cecil E. Jordan, et ux
U	Antero Minerals, LLC
V	Janelle Sue Perkins
W	Clifford Benjamin & Rebecca Louise Boone
X	Mary C. Robinson Living Trust

ID	TM/Par	Owner	Bk/Pg	Acres
1	3-11	David P. & Cheryl M. Dean	291/392	60.00
2	3-9	Roy Emmett & Linda Gay Huffman	126/341	55.00
3		Middle Island Creek		
4	13-10	Charles L. & Jennifer N. Warner	177/1	114.00
5	13-36	Lisa Krynaich	566/759	165.50
6	12-12	Lisa Krynaich	566/759	20.00
7	7-23B	Frederick M. Bonner	286/474	27.33
8	13-37	Lisa Krynaich	566/759	105.94
9	7-15	Rebecca Louise & Clifford Benjamin Boone	348/317	77.25
10	7-15.1	Bobbin E. Pardine	268/516	63.60
11	7-15.2	Terry Heinzman	336/391	1.00
12	15-15	James E. & Anita Carr	349/742	13.17
13	15-16	James E. & Anita Carr	349/742	58.12
14	15-17.1	Howard D. II & Amy Spurlock	385/79	7.26
15	15-17	Terry L. & Daphne R. Heinzman	340/461	8.45
16	15-16.1	Ernest P. Herbold, Jr.	156/296	1.00
17	4-8	Wells Cattle Farms, Inc.	331/164	155.00
18	4-19	Wells Cattle Farms, Inc.	318/190	206.13
19	4-20	Cecil E. Sr. & Linda Jordan, James & Connie Hicks	318/190	206.13
20	4-32	Wells Cattle Farms, Inc.	318/190	206.13
21	4-20.1	Richard W. Barnhart, Jr.	213/162	49.74
22	7-1	Daniel Preston Bonner	416/11	142.72
23	4-20.3	Cecil E. & Linda M. Jordan	240/240	0.52
24	4-20.2	Daniel Preston Bonner	416/11	4.00
25	7-1.1	Daniel Preston Bonner	416/11	20.19
26	7-2	Shirley J. Wells & Susie Cunningham	WB41/317	53.85
27	7-7	Janelle S. Perkins	184/378	74.08
28	7-8	John Wells	428/412	52.39

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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 937' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Bens Run
 DISTRICT: THL: Meade, BHL: Union COUNTY: 10/04/2024 Pleasant
 SURFACE OWNER: Shirley J. Wells & Susie Cunningham ACREAGE: 53.85
 ROYALTY OWNER: Antero Minerals, LLC LEASE NO: _____ ACREAGE: 365.445
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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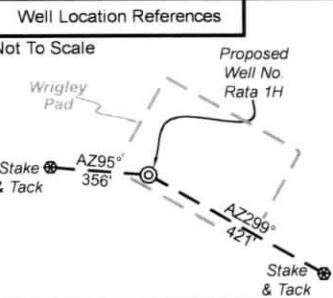


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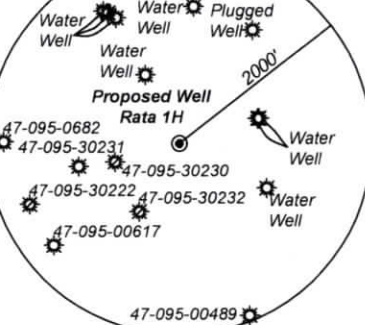


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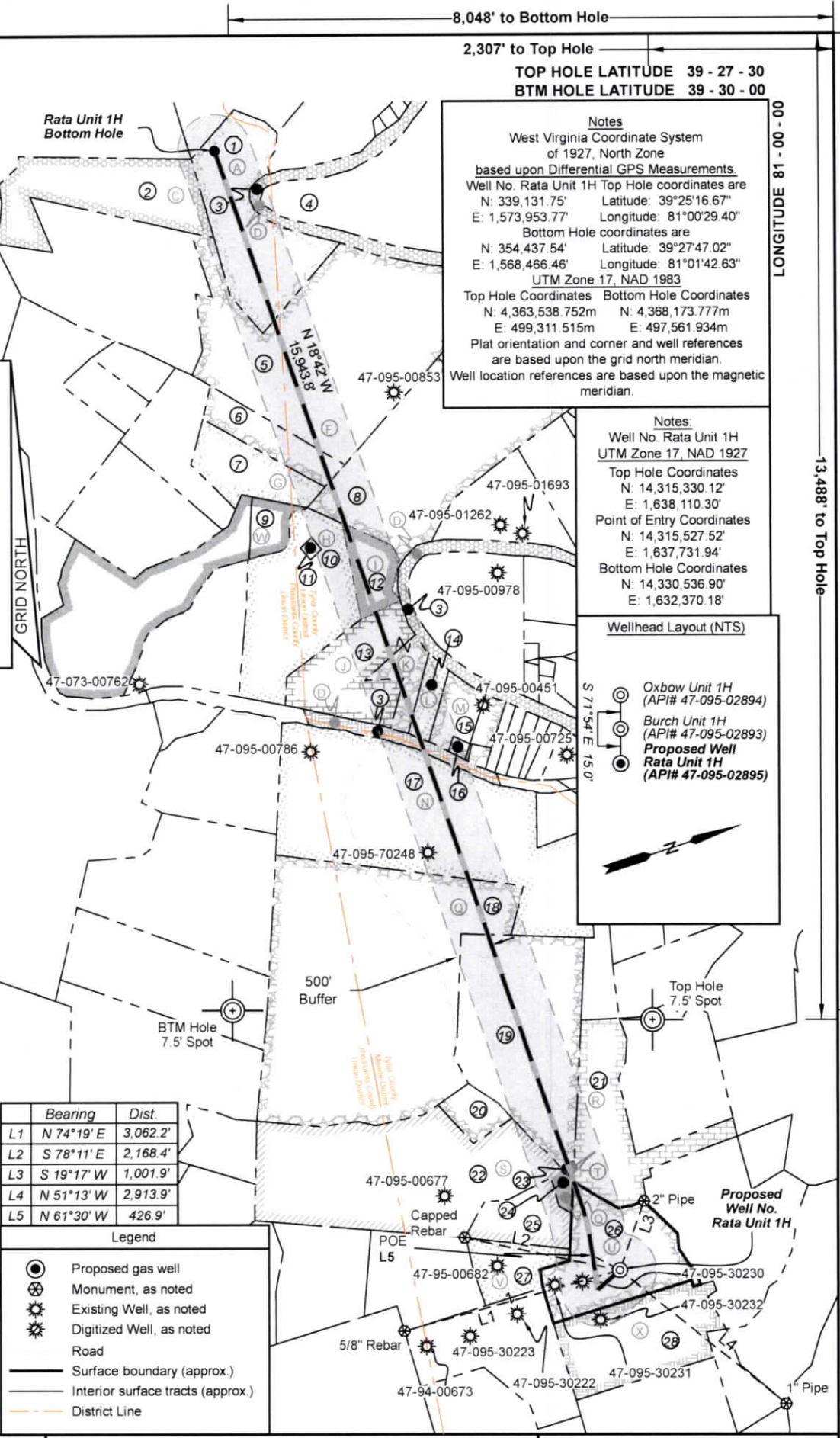
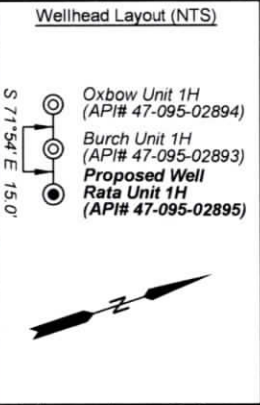
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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

LONGITUDE 81 - 00 - 00

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13,453' to Bottom Hole

10/04/2024