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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, November 14, 2023  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for DIXIE UNIT 1H  
47-017-06958-00-00

**Lateral Extension**

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.

  
James A. Martin  
Chief

Operator's Well Number: DIXIE UNIT 1H  
Farm Name: ANTERO RESOURCES CORPORATION  
U.S. WELL NUMBER: 47-017-06958-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 11/14/2023

Promoting a healthy environment.

11/17/2023

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

1) Well Operator: Antero Resources Corporation 494507062 017-Doddrig W. Union West Union 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Dixie Unit 1H MOD Well Pad Name: Genevieve Pad

3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: WV Route 18 N

4) Elevation, current ground: 886' Elevation, proposed post-construction: \_\_\_\_\_

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_

Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_

Horizontal  CK# 4025049  
CK# 7,500.00

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 7000' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7000' TVD

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9) Formation at Total Vertical Depth: Marcellus

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10) Proposed Total Measured Depth: 17200' MD

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11) Proposed Horizontal Leg Length: 8708'

12) Approximate Fresh Water Strata Depths: 414, 516'

13) Method to Determine Fresh Water Depths: 47-017-02289, 47-017-02319 and 47-017-02317

14) Approximate Saltwater Depths: 1468'

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: \_\_\_\_\_

18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	566'	566'	CTS, 590 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#	17200'	17200'	CTS, 3406 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

*Ernest L. Reynolds 11-3-23*

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
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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WW-6B  
(10/14)

API NO. 47-017 4701706958  
OPERATOR WELL NO. Dixie Unit 1H MOD  
Well Pad Name: Genevieve Pad

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

Drill, perforate, fracture a new vertical 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): 24.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.69 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.

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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.

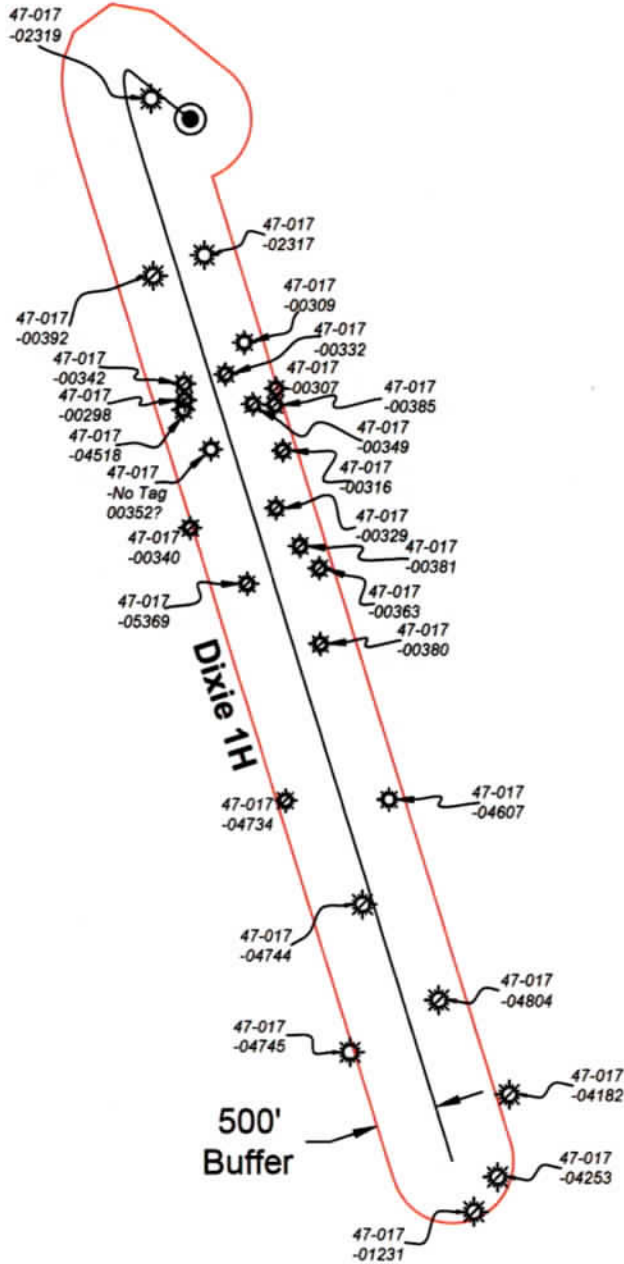
4701706959

**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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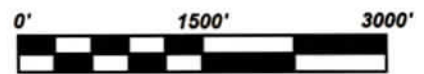


Bridgeport Office  
Phone: (304) 848-5035  
Fax: (304) 848-5037

172 Thompson Drive  
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: J. Smith
RESEARCH: J. Miller	PREPARED: July 5, 2023
SURVEYED: Dec. 2016	PROJECT NO: 58-30-WU-14
FIELD CREW: C.L., K.M.	DRAWING NO: Dixie 1H AOR

Sheet 1 of 1



Scale: 1 inch = 1500 feet

11/17/2023

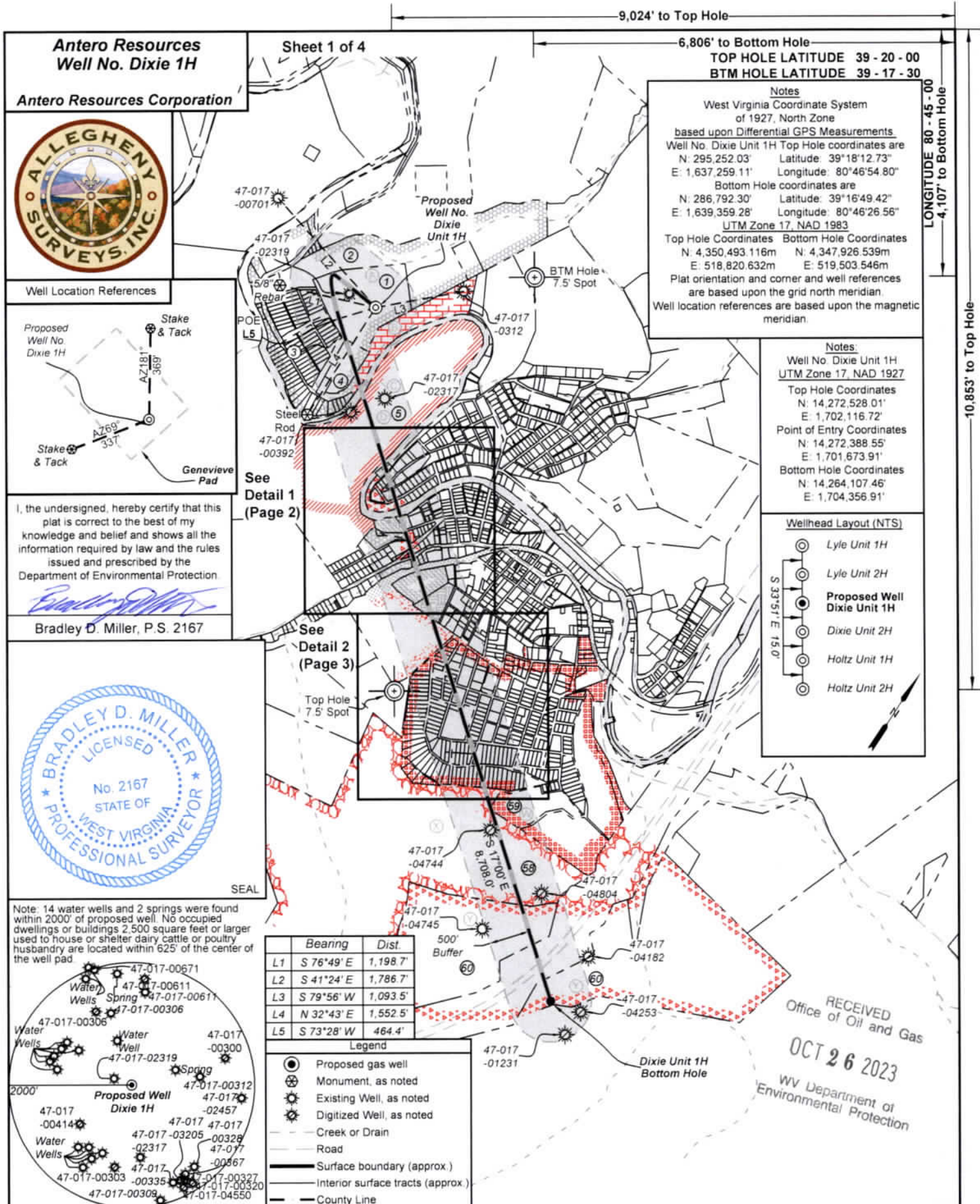
4701706953

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47017023190000	BETTY JANE LANGFITT	1	PILLAR ENERGY LLC	KEY OIL INC	5,241	5080 - 5146	Alexander	Warren, Speechly, Balltown, Riley, Benson
47017003920000	NORA G PIERCE	1	HUNTER R J	HUNTER R J	1,987		Big Injun	Gordon, Berea
47017003420000	HARRY E CLINE	2	UNION DRILLING CO	UNION DRILLING CO	1,765		Maxton, Big Injun	Alexander, Berea
47017002980000	HARRY E CLINE	1	UNION DRILLING CO	UNION DRILLING CO	1,745		Big Injun	Gordon, Berea
47017045180000	CLINE	2	KEY OIL CO	KEY OIL CO	5,158		Warren, Speechley, Balltown, Riley, Benson, Alexander	Gordon, Berea
47017003520000	GRACE M SLAUGHTER	1	BIG INJUN DRLG	BIG INJUN DRLG	1,824		Maxton, Big Injun	Alexander, Gordon, Berea
47017003400000	LETTIE CUMBERLEDGE	1	UNION DRILLING CO	UNION DRILLING CO	1,840			
47017053690000	POWELL NICHOLAS 1	1	KEY OIL CO	KEY OIL CO	2,697		Big Injun, Gordon	Alexander, Berea
47017047340000	STUART W S	2	KEY OIL CO	KEY OIL CO	2,834		Big Injun, Gordon	Alexander, Berea
47017047440000	CHEUVRONT/FARR	1	KEY OIL CO	KEY OIL CO	2,769		Big Injun, Weir, Gordon	Alexander, Berea
47017047450000	CHEUVRONT/FARR	2	KEY OIL CO	KEY OIL CO	2,771		Big Injun, Gordon	Gordon, Berea
47017012310000	MAXWELL LEWIS B-24	GW-1534	EQT PRODUCTION CO	CITIES SERV O&G CORP	1,981		Big Injun	Alexander, Berea
47017023170000	SMITH ET AL	1	PILLAR ENERGY LLC	KEY OIL INC	5,222		Warren, Riley, Alexander	Berea
47017003090000	LILLIE WEEKLY	1	TOWER SERVICE	TOWER SERVICE	1,920		Big Injun, Squaw	Alexander, Berea
47017003320000	KENNETH B PIERCE	1	UNKNOWN	UNKNOWN	1,753		Big Injun, Squaw	Alexander, Berea
47017003070000	BEULAH R SMITH	1	TOWER SERVICE	TOWER SERVICE	1,862		Big Injun	Alexander, Berea
47017003850000	ZELMA FINLEY	1	UNKNOWN	UNKNOWN			Blue Monday, Big Injun	Alexander, Berea
47017003490000	JACKSON K RANDOLPH	1	COTTRILL DALE & BEAV	COTTRILL DALE & BEAV				
47017003160000	ORAL MORAN	1	UNKNOWN	UNKNOWN	1,816		Big Injun	Alexander, Berea
47017003290000	ICIE STUTLER	1	INCO 3 INC	INCO 3 INC	2,014		Maxton, Big Injun	Alexander, Berea
47017003810000	E M NUTTER	1	UNKNOWN	UNKNOWN				
47017003630000	HARRY E CLINE	1	HUNTER R J	HUNTER R J	1,971		Maxton, Big Injun	Alexander, Berea
47017003800000	RANDOLPH ET AL	2	DUSTY DRILLING	DUSTY DRILLING			Salt Sands, Maxton, Big Injun	Alexander, Berea
47017046070000	STUART W S	1	KEY OIL CO	KEY OIL CO	5,418	3274 - 5230	Warren, Speechley, Balltown, Riley, Benson, Alexander	Berea
47017048040000	CHEUVRONT/FARR	3	KEY OIL CO	KEY OIL CO	2,800	1940 - 2660	Big Injun, Gordon	Alexander, Berea
47017041820000	FARR C TRUST	1	HARPER CROSBY HOLDNG	RARE EARTH MINERALS	5,222	3073 - 5049	Warren, Benson, Alexander	Berea
47017042530000	MAXWELL LEWIS ET AL	30	EASTERN AMERICAN ENE	EASTERN AMERICAN ENE				

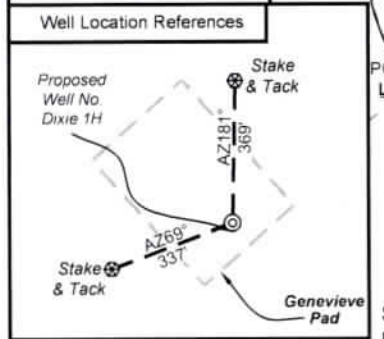
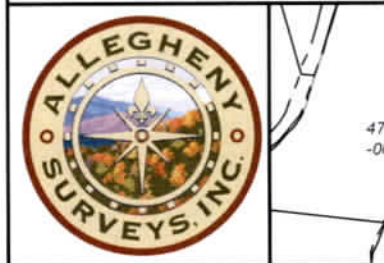
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**Antero Resources**  
Well No. Dixie 1H



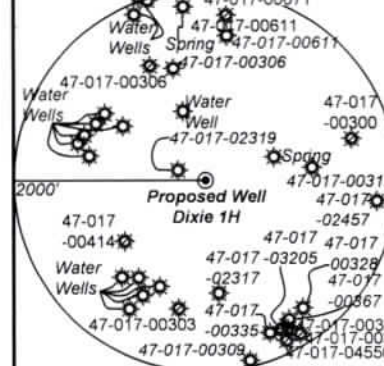
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Bradley D. Miller*

Bradley D. Miller, P.S. 2167



Note: 14 water wells and 2 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.



	Bearing	Dist.
L1	S 76°49' E	1,198.7'
L2	S 41°24' E	1,786.7'
L3	S 79°56' W	1,093.5'
L4	N 32°43' E	1,552.5'
L5	S 73°28' W	464.4'

- 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.)
  - County Line

9,024' to Top Hole

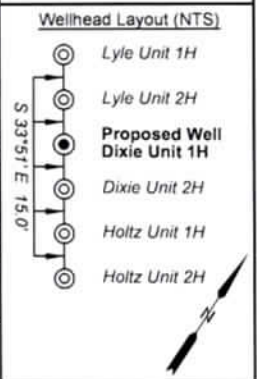
6,806' to Bottom Hole

TOP HOLE LATITUDE 39 - 20 - 00  
BTM HOLE LATITUDE 39 - 17 - 30

**Notes**  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Dixie Unit 1H Top Hole coordinates are  
N: 295,252.03' Latitude: 39°18'12.73"  
E: 1,637,259.11' Longitude: 80°46'54.80"  
Bottom Hole coordinates are  
N: 286,792.30' Latitude: 39°16'49.42"  
E: 1,639,359.28' Longitude: 80°46'26.56"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,350,493.116m N: 4,347,926.539m  
E: 518,820.632m E: 519,503.546m  
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 - 45 - 00  
4,107' to Bottom Hole

**Notes:**  
Well No. Dixie Unit 1H UTM Zone 17, NAD 1927  
Top Hole Coordinates  
N: 14,272,528.01'  
E: 1,702,116.72'  
Point of Entry Coordinates  
N: 14,272,388.55'  
E: 1,701,673.91'  
Bottom Hole Coordinates  
N: 14,264,107.46'  
E: 1,704,356.91'



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FILE NO: 57-30-WU-14  
DRAWING NO: Dixie Unit 1H Well Plat  
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: October 20 2023  
OPERATOR'S WELL NO. Dixie Unit 1H  
API WELL NO  
47 - 017 - 06958  
STATE COUNTY PERMIT

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

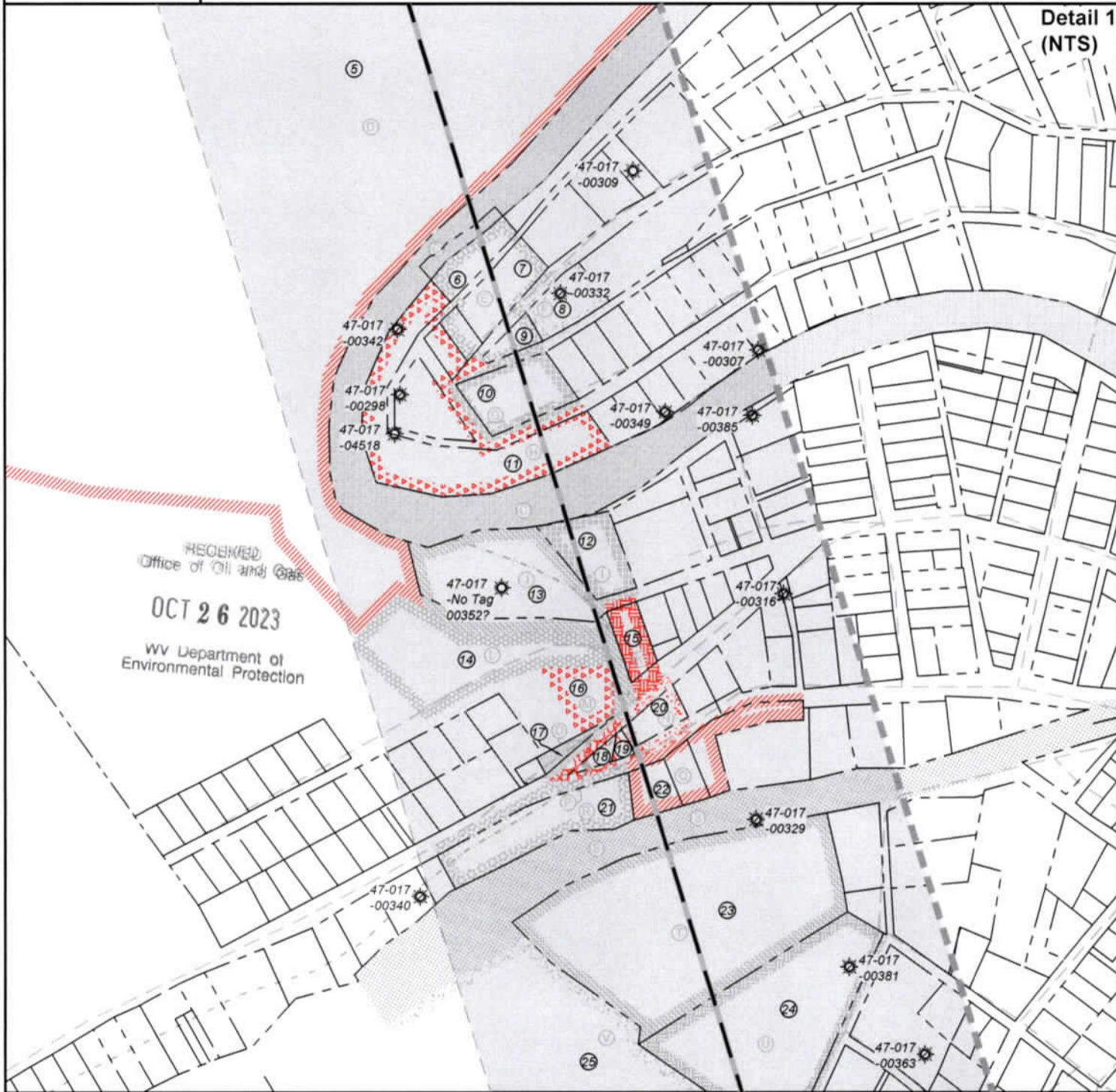
LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Doddridge  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 7,000' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 17,200' 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

Antero Resources Corporation



Detail 1  
(NTS)



FILE NO: 57-30-WU-14  
DRAWING NO: Dixie Unit 1H Well Plat  
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: October 20 2023  
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API WELL NO  
47 - 017 - 06958  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 886' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Dodridge  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: \_\_\_\_\_ ACREAGE: \_\_\_\_\_ 90  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
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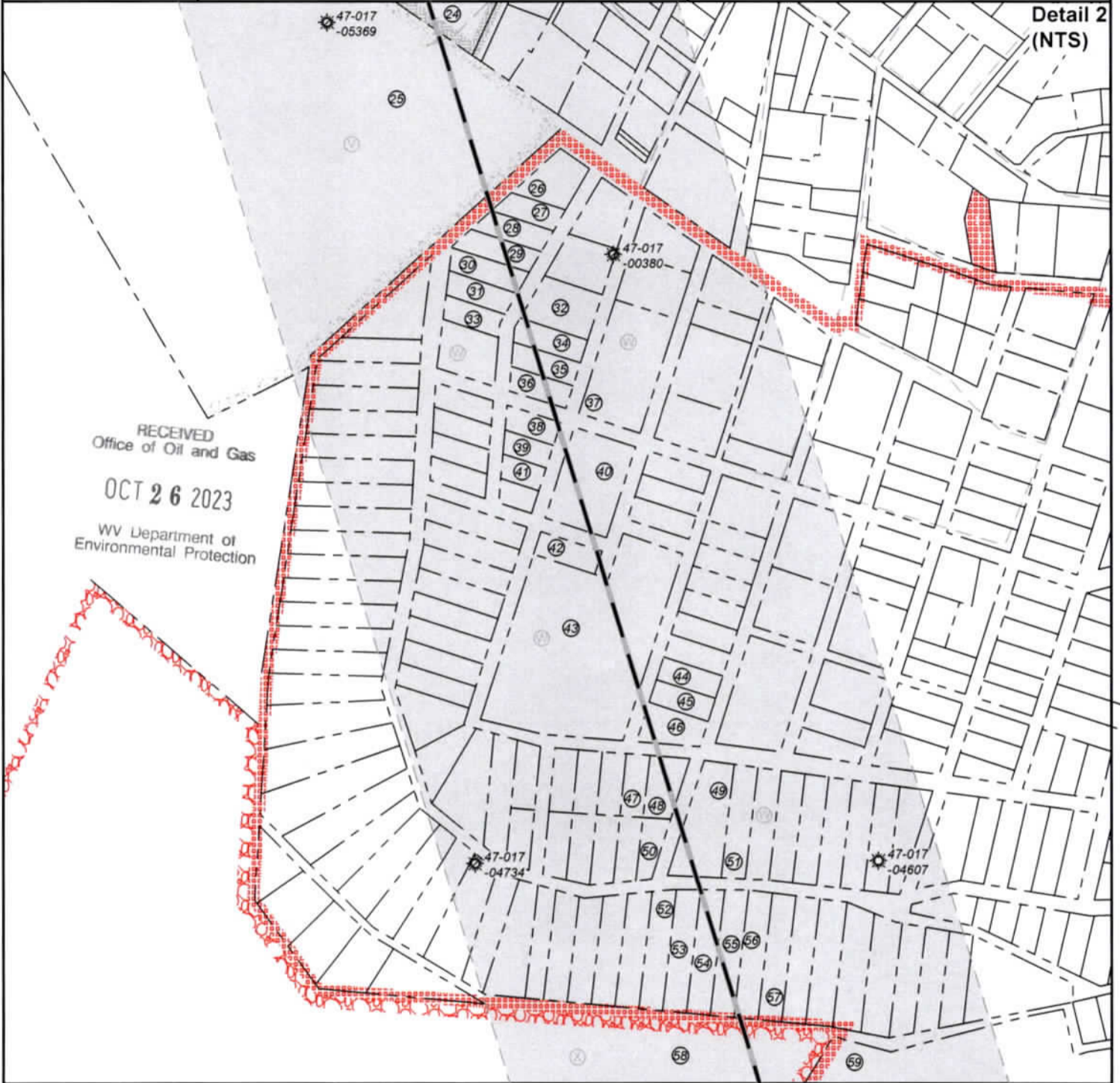
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ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330



Antero Resources Corporation



Detail 2  
(NTS)



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FILE NO: 57-30-WU-14  
DRAWING NO: Dixie Unit 1H Well Plat  
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: October 20 2023  
OPERATOR'S WELL NO. Dixie Unit 1H  
API WELL NO  
47 - 017 - 06958  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built: 886' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Doddridge  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 7,000' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 17,200' 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

Antero Resources Corporation



Leases	
A	Claude F. Smith, et ux
B	Harret B. Jarvis, et al
C	WVDNR
D	J.M.L. Smith
E	Town of West Union
F	William Leo Tarbet
G	William Leo Tarbet
H	Cheryl Ann Tarbet
I	WLT, LLC
J	James D. Powell
K	Arnold L. Stuart
L	Cheryl Ann Tarbet
M	Franklin R. Kinney
N	Pooled Tract
O	Larry Joe Williams Estate
P	Pooled Tract
Q	Franklin R. Kinney
R	Ronald L. Cumberledge
S	WV State Rail Authority
T	Nicholas Powell
U	John C. Farr
V	John C. Farr
W	Mary A. Stuart, et al
X	Celia Schulte & Hazel B. Butler
Y	Joseph Cheuront & W.S. Stuart

ID	TM-Par	Owner	Bk/Pg	Acres
1	11-3	Antero Resources Corp.	431/528	16.50
2	11-4	Paul D. & Sharon K. Weekley	186/743	17.30
3	35-99	Antero Resources Corp.	431/240	0.43
4	35-100	David N. & Tina M. McCartney	288/60	4.50
5	11-13	Frank E. McGill	429/448	58.55
6	3-160.1	Town of West Union	241/254	0.37
7	3-160	Town of West Union	241/254	0.35
8	3-102	Delgreta Lee Tarbet	WB34/568	0.27
9	3-162	Town of West Union	254/279	0.12
10	3-163	Delgreta Lee Tarbet	WB34/568	0.52
11	3-161.1	Town of West Union	143/44	0.35
12	3-106	WLT LLC	276/539	0.55
13	3-104	Roy L. Smith, et al	WB18/117	1.10
14	3-320	Cheryl Ann Tarbet	WB119/228	---
15	3-170	West End Cafe LLC	282/637	0.21
16	3-171	Leroy R. Kinney	236/521	---
17	3-174	Jason Balis, et al	431/390	0.11
18	3-175	WV DOH	134/207	---
19	3-176	WV DOH	134/209	---
20	3-177.1	JP Service Station	310/26	0.19
21	3-319	Donald L., Jr. & Tammy Lynn Mossor	467/132	0.88
22	3-181.1	Russell Leroy Kinney	188/311	0.25
23	3-185.1	Nicholas A. Powell	260/539	4.64
24	3-266	John C. Farr	234/91	3.62
25	11-38	John C. Farr	234/91	17.90
26	31-46	Roy L. & Tammy S. Porter	286/5	0.24
27	31-47	Roy L. & Tammy S. Porter	286/5	0.16
28	31-1	Roy L. & Tammy S. Porter	286/5	0.18
29	31-48	Roy L. & Tammy S. Porter	286/5	0.19
30	31-49	Dora Jean Porter	282/388	0.19
31	31-50	Dora Jean Porter	282/388	0.17
32	31-9	Kimberly A. Flanigan	WB98/579	0.31
33	31-51	Dora Jean Porter	282/388	0.15
34	31-52	Dora Jean Porter	282/388	0.16
35	31-20	Dora Jean Porter	282/388	0.16
36	31-53	Dora Jean Porter	282/388	0.15
37	31-10	Dora Jean Porter	442/210	0.62
38	31-54	Town of West Union	264/680	---
39	31-55	Town of West Union	264/680	---
40	31-26	Helen D. & Donald H. Michels	WB32/156	0.62
41	31-56	Town of West Union	264/680	---
42	31-32	Donna R. Campbell	462/320	0.15
43	31-86	George J. Buff, III & J. Charles Buff	377/517	2.64
44	31-95	Powell Family Trust	304/371	0.14
45	31-96	Powell Family Trust	304/371	0.14
46	31-97	Powell Family Trust	304/371	0.20
47	31-82	George J. Buff, III & J. Charles Buff	377/517	0.15
48	31-85	George J. Buff, III & J. Charles Buff	377/517	0.23
49	31-42	Powell Family Trust	304/369	0.52
50	31-84	George J. Buff, III & J. Charles Buff	377/517	---
51	31-98	Gregory Barton, III	180/37	0.27
52	31-207	George J. Buff, III & J. Charles Buff	377/517	0.29
53	31-208	George J. Buff, III & J. Charles Buff	377/517	0.30
54	31-209	George J. Buff, III & J. Charles Buff	377/517	0.30
55	31-210	George J. Buff, III & J. Charles Buff	377/517	0.30
56	31-211	George J. Buff, III & J. Charles Buff	377/517	0.30
57	31-212	George J. Buff, III & J. Charles Buff	377/517	0.30
58	15-3	E Properties LTD	201/396	186.86
59	11-71	Lyle K. Baker	177/304	8.29
60	15-4	E Properties LTD	201/396	115.03

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FILE NO: 57-30-WU-14  
DRAWING NO: Dixie Unit 1H Well Plat  
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: October 20 2023  
OPERATOR'S WELL NO. Dixie Unit 1H  
API WELL NO  
47 - 017 - 06958  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Dixie  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: \_\_\_\_\_ ACREAGE: \_\_\_\_\_ 90  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 7,000' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 17,200' 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

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)

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- (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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b>A: Claude F. Smith, et ux Lease</b>			
Claude F. Smith	Key Oil Company	1/8	104/704
Key Oil Company	XOIL Drilling Partners LP	Assignment	105/566
XOIL Drilling Partners LP	XPLOR Corporation	Assignment	146/649
XPLOR Corporation	Venus Exploration	Merger	WV SOS
Venus Exploration Inc	Allegheny Interests Inc	Assignment	184/512
Allegheny Interests Inc	Rubin Resources Inc	Assignment	187/685
Rubin Resources Inc	Petro Edge Energy LLC	Assignment	230/666
Petro Edge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	285/71
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	428/356
EQT Production Company	Antero Resources Corporation	Agreement	385/268
<b>B: Harret M. Jarvis, et al Lease</b>			
Harret M. Jarvis	Robert L. Holland	1/8	62/299
Robert L. Holland	H & H Oil Company	Name Change	2/467
H & H Oil Company	Midwest Energy, Inc	Assignment	268/600
Midwest Energy, Inc	Antero Resources Corporation	Assignment	520/94
<b>C: WVDNR Lease:</b>			
WVDNR	Antero Resources Corporation	1/8+	517/553
<b>D: J.M.L. Smith Lease</b>			
J.M.L. Smith	Key Oil Company	1/8	104/440
Key Oil Company	Rim Gas Corporation	Name Change	105/566
Rim Gas Corporation	XPLOR Corporation	Assignment	177/155
XPLOR Corporation	Venus Exploration, Inc	Merger	WV SOS
Venus Exploration, Inc	Allegheny Interest, Inc	Assignment	184/512
Allegheny Interest, Inc	Rubin Resources, Inc	Assignment	187/685
Rubin Resources, Inc	PetroEdge Energy, LLC	Assignment	230/666
PetroEdge Energy, LLC	Statoil USA Onshore Properties	Assignment	285/71
Statoil USA Onshore Properties	EQT Production Company	Assignment	428/356
EQT Production Company	Antero Resources Corporation	Assignment	467/765
<b>C: WVDNR Lease:</b>			
WVDNR	Antero Resources Corporation	1/8+	517/553
<b>E: Town of West Union Lease:</b>			
Town of West Union	Antero Resources Corporation	1/8+	511/22
<b>G: William Leo Tarbet Lease:</b>			
William Leo Tarbet	Antero Resources Corporation	1/8+	468/263
<b>H: Cheryl Ann Tarbet Lease:</b>			
Cheryl Ann Tarbet	Antero Resources Corporation	1/8+	461/513
<b>C: WVDNR Lease:</b>			
WVDNR	Antero Resources Corporation	1/8+	517/553
<b>I: WLT, LLC Lease:</b>			
WLT, LLC	Antero Resources Corporation	1/8+	459/283

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11/17/2023

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>J: James D. Powell Lease:</u> James D. Powell	Antero Resources Corporation	1/8+	510/658
<u>L: Cheryl Ann Tarbet Lease:</u> Cheryl Ann Tarbet	Antero Resources Corporation	1/8+	510/19
<u>M: Franklin R. Kinney Lease:</u> Franklin R. Kinney	Antero Resources Corporation	1/8+	526/360
<u>J: James D. Powell Lease:</u> James D. Powell	Antero Resources Corporation	1/8+	510/658
<u>N: Pooled Tract</u>			
<u>Q: Franklin R. Kinney Lease:</u> Franklin R. Kinney	Antero Resources Corporation	1/8+	526/360
<u>S: WV State Rail Authority Lease:</u> WV State Rail Authority	Antero Resources Corporation	1/8+	253/409
<u>T: Nicholas Powell Lease:</u> Nicholas Powell Key Oil Company Antero Resources Appalachian Corporation	Key Oil Company Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Name Change	214/126 276/526 46/523
<u>U: John C. Farr Lease:</u> John C. Farr	Antero Resources Corporation	1/8+	486/419
<u>V: John C. Farr Lease:</u> John C. Farr	Antero Resources Corporation	1/8+	485/350
<u>W: Mary A. Stuart, et al Lease:</u> Mary A. Stuart, et al Lewis Maxwell Southern Carbon Company Empire Oil Company	Lewis Maxwell Southern Carbon Company Empire Oil Company Carolyn E. Farr, P.D. Farr, & William E. Farr directors Carolyn E. Farr Trust	1/8 Assignment Assignment Company incorporated Trust created	19/214 34/391 356/361 216/162 220/233
<u>Carolyn E. Farr, P.D. Farr, &amp; William E. Farr directors</u>			
<u>Carolyn E. Farr Trust</u>	Antero Resources Appalachian Corporation	Assignment	271/541
<u>Antero Resources Appalachian Corporation</u>	Antero Resources Corporation	Name Change	46/523

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b>X: Celia Schulte &amp; Hazel B. Butler Lease</b>			
Celia Schulte & Hazel B. Butler	P. Douglass Fari	1/8	62/485
P. Douglass Fari	Triangle Oil Company	Assignment	69/125
Triangle Oil Company	New Triangle Oil Company	Assignment	149/174
New Triangle Oil Company	Professional Oilfield Services, Inc	Farmout Agreement	336/456
Professional Oilfield Services, Inc	Antero Resources Corporation	Partial assignment of oil and gas leases	336/461

\*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

\*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.

\*\*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

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<b>Joseph Cheuront &amp; W.S. Stuart Lease:</b>				
	Joseph Cheuront & W.S. Stuart	Lewis Maxwell	1/8	19/216
	Lewis Maxwell	Southern Carbon Company	Assignment	24/477
	Southern Carbon Company	Empire Oil Company, John M. Gribble	Assignment	24/277
	Empire Oil Company, John M. Gribble	WD Gribble	Death	3/067
	WD Gribble	Carolyn E. Farr	Death	4/256
	Carolyn E. Farr	Clarence E. Sigley, Trustee, Carolyn E. Farr Trust	Assignment	220/233
	Clarence E. Sigley, Trustee, Carolyn E. Farr Trust	Tri County Oil & Gas Inc	Assignment	198/670
	Tri County Oil & Gas Inc	May Gas Inc	Assignment	204/43
	May Gas Inc	Harper Crosby Holdings LLC	Assignment	309/238
	Harper Crosby Holdings LLC	Piney Holdings Inc	Assignment	309/275
	Piney Holdings Inc	Antero Resources Corporation	Assignment	400/655

**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

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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