



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

Friday, May 31, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for BOXCAR UNIT 1H
47-085-10515-00-00

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over the printed name and title. The signature is fluid and cursive.

Operator's Well Number: BOXCAR UNIT 1H
Farm Name: NELSON MARK HAYHURST
U.S. WELL NUMBER: 47-085-10515-00-00
Horizontal 6A New Drill
Date Modification Issued: 05/31/2024

Promoting a healthy environment.

05/31/2024

WW-6B
(04/15)

API NO. 47-085 - 10515
OPERATOR WELL NO. Boxcar Unit 1H MOD ✓
Well Pad Name: Olympus Pad

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

1) Well Operator: Antero Resources Corporation Operator ID: 494507062 County: 085 - Ritchie District: Clay Quadrangle: Ellenboro 7.5'

2) Operator's Well Number: Boxcar Unit 1H MOD Well Pad Name: Olympus Pad

3) Farm Name/Surface Owner: Nelson Mark Hayhurst Public Road Access: Lamberton Rd

4) Elevation, current ground: 1025' - AS BUILT Elevation, proposed post-construction: _____

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

(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: 6700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 6700' TVD ✓

9) Formation at Total Vertical Depth: Marcellus ✓

10) Proposed Total Measured Depth: 27400' MD ✓

11) Proposed Horizontal Leg Length: 17384' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 173', 230' ✓

13) Method to Determine Fresh Water Depths: 47085011840000, 47085066360000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 430'

15) Approximate Coal Seam Depths: N/A

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: _____ RECEIVED Office of Oil and Gas
Depth: _____
Seam: MAY 24 2024
Owner: WV Department of Environmental Protection

CK# 4031426
\$ 7500⁰⁰
5/2/2024

5-21-24

05/31/2024

WW-6B
(04/15)

API NO. 47- 085 - 10515
 OPERATOR WELL NO. Boxcar Unit 1H MOD
 Well Pad Name: Olympus Pad

CASING AND TUBING PROGRAM

18)

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	J-55	94#	100'	100' ✓	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300'	300' ✓	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3000'	3000' ✓	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	27400'	27400' ✓	CTS, 5977 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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"	0.375"	2250	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"	14,360	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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 Office of Oil and Gas
 MAY 24 2024
 WV Department of
 Environmental Protection

5-21-24

WW-6B
(10/14)

API NO. 47-085 - 10515
OPERATOR WELL NO. Boxcar Unit 1H MOD
Well Pad Name: Olympus Pad

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

Drill a new horizontal shallow well into the Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

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): 18.11 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.00 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 C/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

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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.

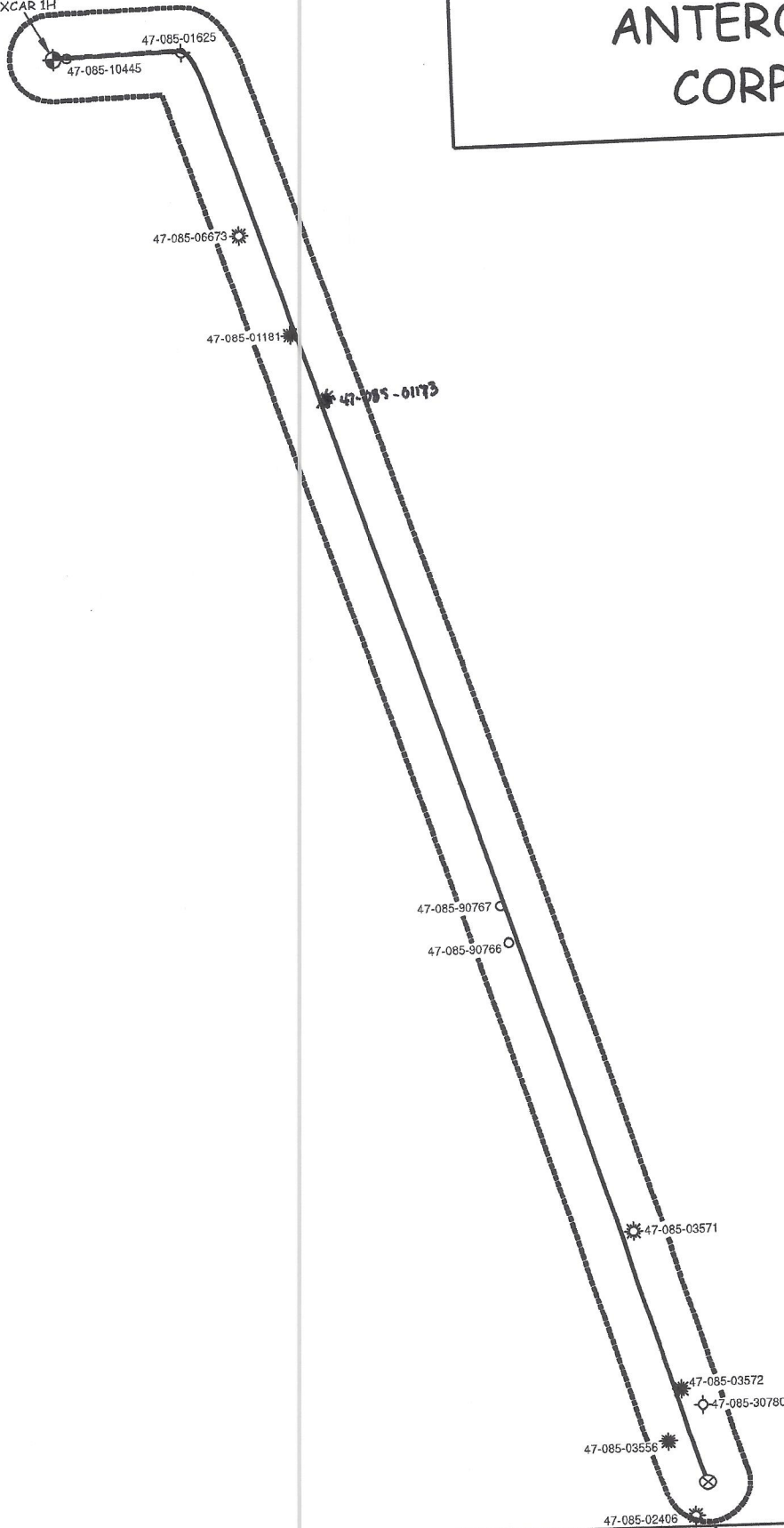
Page 3 of 3


S-21-24

05/31/2024

OLYMPUS PAD ANTERO RESOURCES CORPORATION

WELL NO.
BOXCAR 1H



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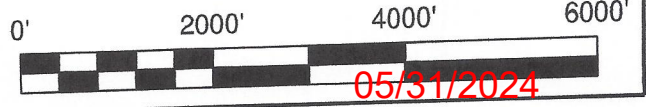
MAY 29 2024

WV Department of
Environmental Protection

WILLOW LAND SURVEYING, PLLC
P.O. BOX 17, PENNSBORO, WV 26415
(304) 659-1717

JOB #: 23-020WA
FILE: BOXCAR1HAOR.DWG

SCALE : 1-INCH = 2000-FEET



05/31/2024

DATE: 05/13/24

DRAWN BY: D.L.P.

UWI (API/Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Productive Formation(s) not perf'd
47085104450000	OLYMPUS UNIT	5V	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	5,053	2548 - 4941	Squaw, Up Speechley, Udey, Lower Huron, Benson, Java	Weir, Alexander, Gordon
47085066730000	LAMBERT WILDRED	2	ZICKFOOSE W F & R L	GABLE ALAN OIL DEV	2,086			
47085013810000	H C SHULTE	4	MYERS HOMER W	KOHL T H	2,092			
47085016350000	MARY LOFTUS	1	MYERS HOMER W	MYERS HOMER W	2,111	1924 - 2023	Big Injun	Weir, Benson, Alexander, Gordon
47085907670000		1	LUCAS WELL SERVICE INC	BLAUSER DENNIS	2,023	1847 - 1923	Big Injun	Weir, Benson, Alexander, Gordon
47085035720000	O R BONNELL	2	TARSA DEVELOPMENT INC	BLAUSER DENNIS	1,807	1665 - 1782	Maxton, Big Injun, Squaw	Weir, Benson, Alexander, Gordon
47085907800000	O R BONNELL	1	MCCALL DRILLING	MCCALL DRILLING	1,819		Big Injun	Weir, Benson, Alexander, Gordon
47085907800000	DAVIS & TAYLOR	3	LUCAS WELL SERVICE INC	BLAUSER WELL SERVICE	2,199		Maxton, Berea	Weir, Benson, Alexander, Gordon
47085024060000	EARL WILSON	1	STRATEGIC WELL HOLDINGS INC	COTTRILL EMERY	2,150		Squaw	Weir, Benson, Alexander, Gordon
47085011730000	F O NUTTER	1	UNKNOWN					

05/31/2024

LATITUDE 39° 17' 30"

2,228'

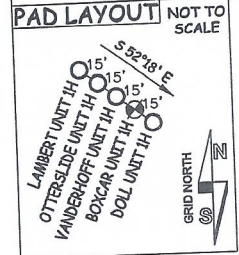
LATITUDE 39° 5' 00"

Antero Resources Corporation
Well No. Boxcar #1H

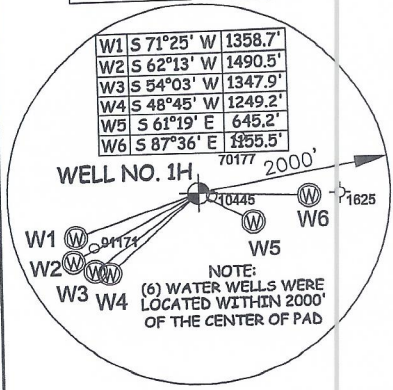
NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 289,414ft E: 1,573,203ft
 LAT: 39°17'05.21" LON: 81°00'28.33"
 BOTTOM HOLE INFORMATION:
 N: 272,495ft E: 1,580,319ft
 LAT: 39°14'19.16" LON: 80°58'54.29"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
 ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 4,348,388m E: 499,336m
 BOTTOM HOLE INFORMATION:
 N: 4,343,270m E: 501,590m

(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,265,625ft E: 1,638,190ft
 POINT OF ENTRY INFORMATION:
 N: 14,265,273ft E: 1,639,955ft
 BOTTOM HOLE INFORMATION:
 N: 14,248,832ft E: 1,645,585ft

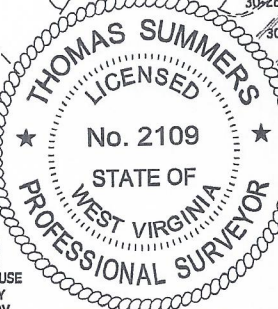


W1	S 71°25' W	1358.7'
W2	S 62°13' W	1490.5'
W3	S 54°03' W	1347.9'
W4	S 48°45' W	1249.2'
W5	S 61°19' E	645.2'
W6	S 87°36' E	1355.5'



LESSOR	
A	WV DIVISION OF MULTIMODAL TRANSPORTATION FACILITIES
B	CHARLES W. ANDERSON
C	DONNA M. CAIN
D	MILDRED MAY LAMBERT
E	SCOTT GREGORY LAMBERT
F	THE CARL G. NIELSEN FAMILY TRUST
G	ELEANOR D. MAPLE
H	HARRY E. SHAFFER
I	FRED B. BUSCH AND CLARA V. BUSCH
J	HAUGHT FAMILY TRUST
K	WAYMOND L. MAHANEY AND MARY E. MAHANEY
L	NICHOLAS E. RIDDLE AND CONNIE M. RIDDLE
M	ALICE D. ZEGREA
N	RIDGETOP CAPITOL VI, LP.
O	RIDGETOP APPALACHIA, LLC.
P	RIDGETOP APPALACHIA, LLC.
Q	SW2 MINERALS, LLC.
R	TERRY A. BUNNER
S	GREENBRIER ROYALTY FUND II, LLC.
T	JUDITH A. BEARY
U	GREENBRIER ROYALTY FUND II, LLC.
V	GREENBRIER ROYALTY FUND II, LLC.
W	SANDRA KAY REED
X	HAUGHT FAMILY TRUST
Y	NEAL COLLINS
Z	CHAD WILLIAM JOHNSON
AA	EIGG LAND LIMITED
AB	ORVILLE R. BONNELL, ET AL.
AC	BURL DODD, ET AL.
AD	EVELYN HAYHURST
AE	ERNEST R. DOLL
AF	ANTERO MINERALS, LLC.
AG	JAMES MERCER
AH	REX FREELAND ET AL.
AI	JAMES E. RAINES ET AL.
AJ	JPE HARDWOOD LUMBER, INC.
AK	LOWELL E. AND JANEY GOFF
AL	CHARLES HEADLEY, ET AL.
AM	GREENBRIER ROYALTY FUND II, LLC.
AN	CHAD W. JOHNSON
AO	BEVERLY J. WRIGHT

CLAY DISTRICT RITCHIE COUNTY	
24-7	Tech Service Center
24-9	Richard Kelley
24-10	Nelson M. Hayhurst
24-12.12	Rex Freeland
24-12.13	Elen Newman
24-12.17	David Copeland
24-25.1	Don Slawson
24-26.1	WV SRA
24-27.1	WV SRA
24-27.3	Danna Cain
24-34.2	Stonewall Property Holdings LLC
24-35.2	Richard Lambert
24-48	John McCoy Living Trust
24-48.3	John McCoy Living Trust
24-49	Charles Headley
24-56	Justin Kram
24-57	Justin Kram
25-28	Harry Shaffer
25-28.4	Harry Shaffer
25-28.5	Fred Busch Irrevocable Trust
25-44	Everett Headley
25-44.1	Cinda Fleming
25-56	Charles Headley
25-58	Nicholas Riddle
30-2	William Burch
30-2.1	Harry Shaffer
30-12	Bobby Bunner
30-13	Randall Dall
30-19	David Riddle
30-20	Ida Riddle
30-21	Charles Copeland
30-23	Bobby Bunner
30-23.1	Charles Copeland
30-24	David Riddle
30-24.2	Charles Copeland
30-28	David Riddle
30-29	Bobby Bunner
30-30	Charles Copeland
30-34	Charles Copeland
30-35	Charles Copeland
30-36	Charles Copeland
30-37	Terry Fry
30-37.1	Terry Fry
30-37.2	Terry Fry
30-43	Charles Copeland
30-46	Charles Copeland
35-2	Debra Davis
35-3	Debra Davis
35-3.1	Terry Fry
35-8	Debra Clements
35-9.1	David Dotson
35-14	Darren Dadd
35-14.2	Chris Jones



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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



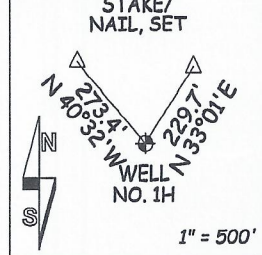
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

NOTE
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

PENNSBORO CORPORATION RITCHIE COUNTY	
10-1	JPE Hardwood Lumber Inc.
10-1.1	Tracey Tallman
10-1.3	Brenda Edmisten
10-4	Kenneth Church
10-6	Louwilda Satterfield
10-7	JPE Hardwood Lumber Inc.
15-1	Simonton Building Products Inc.
15-2	Pennsboro Industrial Park Dev. Authority
15-3	Pennsboro Industrial Park
15-3.1	Simonton Building Products Inc.
15-3.2	Simonton Building Products Inc.
15-3.3	Simonton Building Products Inc.
15-3.4	Simonton Building Products Inc.
15-3.5	Simonton Building Products Inc.
15-3.6	Simply Blessed Designs & Rentals LLC
15-3.7	Simonton Building Products Inc.
15-4	Lisa Randolph
15-5	Lisa Randolph
15-6	Charles Richards
15-7	Neal Satterfield
15-8	Kimberly Freeland
15-9	Neal Satterfield

REFERENCES



JOB # 23-023WA
 DRAWING # BOXCAR1HP
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND
 --- Surface Owner Boundary Lines +/-
 - - - - - Adjoining Surface Tracts +/-
 ⊕ Found monument, as noted

Thomas Summers
 THOMAS SUMMERS P.S. 2109

DATE 4/16/24
 OPERATOR'S WELL# BOXCAR UNIT #1H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 ___ 085 ___ 10515
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE CO 05/31/2024 COUNTY NAME
 LOCATION: ELEVATION AS BUILT - 1,025' WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE ELLENBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER NELSON MARK HAYHURST ACREAGE 9.65 ACRES +/- PERMIT
 OIL & GAS ROYALTY OWNER EVELYN HAYHURST LEASE ACREAGE 9.65 ACRES±
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL X
 (SPECIFY) MOD-BHL PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,700' TVD 27,400' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS
 ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD
 FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

WW-6A1

Operator's Well Number Boxcar Unit 1H MOD

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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>AD: Evelyn Hayhurst Lease</u> Evelyn Hayhurst Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0260/0279 0015/0705
<u>AI: James E. Raines Et Al Lease</u> James E. Raines	Antero Resources Corporation	1/8+	0287/0001
<u>AG: James Mercer Lease</u> James Mercer	Antero Resources Corporation	1/8+	0310/0926
<u>AI: James E. Raines Et Al Lease</u> James E. Raines	Antero Resources Corporation	1/8+	0287/0001
<u>AH: Rex Freeland Et Al Lease</u> Rex Freeland	Antero Resources Corporation	1/8+	0311/0046
<u>AI: James E. Raines Et Al Lease</u> James E. Raines	Antero Resources Corporation	1/8+	0287/0001
<u>A: WV Division of Multimodal Transportation Facilities Lease</u> West Virginia Division of Multimodal Transportation Facilities	Antero Resources Corporation	1/8+	0336/0335
<u>B: Charles W. Anderson Lease</u> Charles W. Anderson	Antero Resources Corporation	1/8+	0338/0531
<u>C: Donna M. Cain Lease</u> Donna M. Cain	Antero Resources Corporation	1/8+	0332/0437
<u>E: Scott Gregory Lambert Lease</u> Scott Gregory Lambert	Antero Resources Corporation	1/8+	0318/0327
<u>F: The Carl G. Nielson Family Trust Lease</u> The Carl G. Nielson Family Trust	Antero Resources Corporation	1/8+	0332/0224
<u>G: Eleanor D. Maple Lease</u> Eleanor D. Maple	Antero Resources Corporation	1/8+	0339/0331
<u>I: Fred B. Busch and Clara V. Busch Lease</u> Fred B. Busch and Clara V. Busch	Antero Resources Corporation	1/8	0339/0331
<u>M: Alice D. Zegrea Lease</u> Alice D. Zegrea Lease	Antero Resources Corporation	1/8+	0340/0454
<u>O: Ridgetop Appalachia, LLC. Lease</u> Ridgetop Appalachia, LLC.	Antero Resources Corporation	1/8+	0336/0879
<u>P: Ridgetop Appalachia, LLC. Lease</u> Ridgetop Appalachia, LLC.	Antero Resources Corporation	1/8+	0336/0879

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Office of Oil and Gas

MAY 13 2024

WV Department of
Environmental Protection

05/31/2024

WW-6A1

Operator's Well Number Boxcar Unit 1H MOD

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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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Q: SW2 Minerals, LLC. Lease</u> SW2 Minerals, LLC.	Antero Resources Corporation	1/8+	0333/0034
<u>T: Judith A. Beary Lease</u> Judith A. Beary	Antero Resources Corporation	1/8+	0337/0312
<u>S: Greenbrier Royalty Fund II, LLC. Lease</u> Greenbrier Royalty Fund II, LLC. SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	0344/0437 0345/0547
<u>U: Greenbrier Royalty Fund II, LLC. Lease</u> Greenbrier Royalty Fund II, LLC. SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	0344/0437 0345/0547
<u>X: Haught Family Trust Lease</u> Haught Family Trust	Antero Resources Corporation	1/8+	0343/0502
<u>Z: Chad William Johnson Lease</u> Chad William Johnson	Antero Resources Corporation	1/8+	0346/0132
<u>AB: Orville R. Bonnell, Et Al Lease</u> Orville R. Bonnell, Et Al Dennis D. Blausner Blausner Energy Corporation	Dennis Blausner Blausner Energy Corporation Antero Resources Corporation	1/8 Assignment Assignment	0118/0426 0204/0795 0265/0648

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Office of Oil and Gas
MAY 13 2024
WV Department of
Environmental Protection

*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.

*Co-tenancy 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.

05/31/2024

**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
AC: Burl Dodd, Et Al Lease	Burl Dodd, Et Al	Dennis D. Blauser	1/8	0118/0318
	Dennis D. Blauser	Thomas H. Burrows	Assignment	0118/0792
	Thomas H. Burrows	Cedar Petroleum	Assignment	0118/0790
	Cedar Petroleum	Donald V. Belatini	Affidavit	0265/0645
	Donald V. Belatini	Blauser Energy Corporation	Assignment	0169/0352
	Blauser Energy Corporation	Antero Resources Corporation	Assignment	0265/0648

*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.

*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with the 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.

**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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Environmental Protection

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