



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, December 18, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for OSBORNE UNIT 2H
47-017-06973-00-00

Lateral Extension/ New Leases

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: OSBORNE UNIT 2H
Farm Name: ANTERO RESOURCES CORPORATION
U.S. WELL NUMBER: 47-017-06973-00-00
Horizontal 6A New Drill
Date Modification Issued: 12/18/2024

Promoting a healthy environment.

12/20/2024

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 - Doddri Southwe Oxford 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Osborne Unit 2H MOD Well Pad Name: Locke Pad

3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: Taylor Drain Road

4) Elevation, current ground: 1100.5' - AS BUILT 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: 7000' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7000' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22500' MD

11) Proposed Horizontal Leg Length: 13225' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 236', 260', 320', 326'

13) Method to Determine Fresh Water Depths: 47017033900000, 47017000980000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1733', 1750'

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: _____
Depth: _____
Seam: _____
Owner: _____

CK# 4037219
\$ 7500.00
12/5/2024

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Sh...
12-13-24 12/20/2024

WW-6B
(04/15)

API NO. 47- 017 - 06973

OPERATOR WELL NO. Osborne Unit 2H MOD

Well Pad Name: Locke Pad

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	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	376'	376'	CTS, 392 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2750'	2750'	CTS, 1120 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	22500'	22500'	CTS, 4742 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			RECEIVED Office of Oil and Gas DEC 16 2024 WV Department of Environmental Protection
Sizes:	N/A			
Depths Set:	N/A			

Sheriff
12-13-2024/20/2024

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): 27.54 acres

22) Area to be disturbed for well pad only, less access road (acres): 13.31 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 G/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:

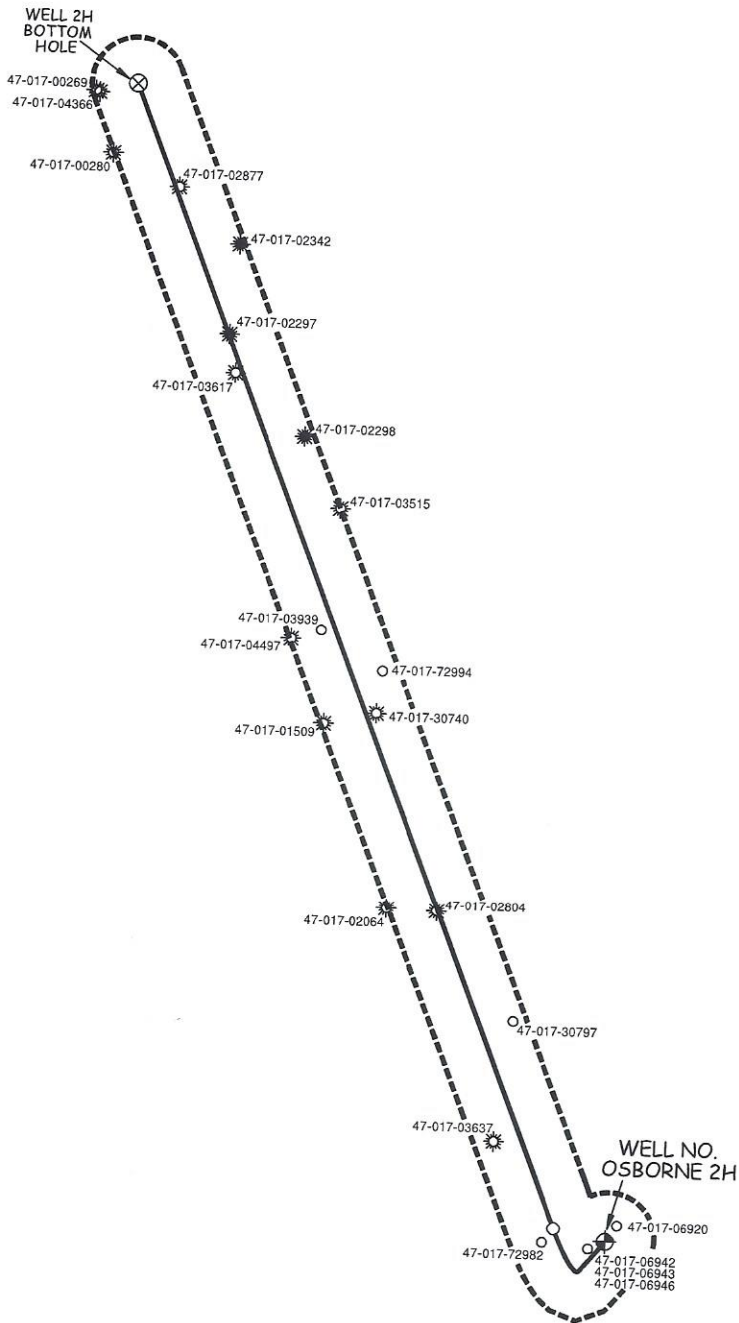
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: 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.

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Environmental Protection

*Note: Attach additional sheets as needed.

Sh Kim
12-13-2024

LOCKE PAD ANTERO RESOURCES CORPORATION



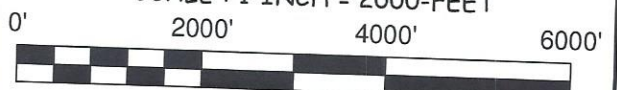
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WILLOW LAND SURVEYING, PLLC
 P.O. BOX 17, PENNSBORO, WV 26415
 (304) 659-1717

JOB #: 23-019WA

FILE: OSBORNE2HAOR.DWG

SCALE : 1-INCH = 2000-FEET



DATE: 12/5/2024

DRAWN BY: D.L.P.

12/20/2024

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4701706920000	LOCKE UNIT	5V	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP				
47017069420000	JENKINS UNIT	1H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP				
47017069430000	JENKINS UNIT	2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	16,348	6937 - 16227	Marcellus	
47017069460000	SHOTTER UNIT	2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	16,754	7122 - 16620	Marcellus	
47017729820000	E W OSBORNE	1	UNKNOWN	UNKNOWN	16,978	6926 - 16847	Marcellus	
47017036370000	WEST HAZEL	1	TERM ENERGY	UNKNOWN				
47017307970000	A E WILSON	2	UNKNOWN	TERM ENERGY	5,139			
47017020640000	MYRTLE R WILSON	4705	EQUITABLE GAS CO	UNKNOWN		4286 - 4997	Gordon, Riley, Alexander	
47017028040000	SOPHIA & HILEMAN	J-220	GREYLOCK CONVENTIONAL LLC	EQUITABLE GAS CO	2,101			Weir, Benson, Alexander
47017015090000	A J NUTTER 1	4586	TARGA DEVELOPMENT INC	J & J ENTERPRISES	5,245	5017 - 5070	Maxton, Big Injun	Weir
47017729940000	CLEM BARTEE		PITTSBURGH&W VA GAS	DILMUR OIL	2,060		Alexander	Weir, Benson
47017044970000	SCOTT	1	UNKNOWN	PITTSBURGH&W VA GAS	1,882		Big Injun	Weir, Benson, Alexander
47017039390000	ROBERT SNYDER	1	KEY OIL	UNKNOWN			Maxton, Big Injun	Weir, Benson
47017035150000	LEGGETT OTIS ET AL	1	TARGA DEVELOPMENT INC	KEY OIL	5,248	3211 - 5077	Warren, Speechley, Balltown, Riley, Benson, Elk, Alexander	Weir
47017022980000	STINESPRING W S	A-1807	LEGGETT OTIS ET AL	DILMUR OIL				
47017036170000	STINESPRING W L	2	C & P OIL & GAS	HAUGHT ENERGY CORP	5,458	4853 - 5028	Benson, Alexander	Weir
47017022970000	STINESPRING W S	3-A	DIVERSIFIED PRODUCTION LLC	C & P OIL & GAS	2,460	2080 - 2285	Big Injun, Weir	Weir
47017023420000	MAY STELLA	1	P G OIL & GAS INC	WACO O & G CO INC	6,640	3766 - 6496	Riley, Benson, Alexander, Brillier	Benson, Alexander
47017028770000	LEGGETT N H ET AL	4	BETA HELIX ENERGY LLC	C & P OIL & GAS INC	2,473	2110 - 2280	Big Injun, Weir	Weir
47017002800000	N H LEGGETT	4	BETA HELIX ENERGY LLC	CHASE PETROLEUM CO	5,504	3729 - 5224	Riley, Alexander	Benson, Alexander
47017043660000	LEGGETT ROY ET AL	1	DIVERSIFIED PRODUCTION LLC	CHASE PETROLEUM CO	5,435	4828 - 5216	Balltown, Riley, Benson, Alexander	Weir
47017002690000	N H LEGGETT	1	HUNTER R J	HUNTER R J	1,952		Big Injun	Weir
					5,292	4155 - 5064	Riley, Alexander	Weir, Benson, Alexander
					1,883		Big Injun	Weir, Benson, Alexander

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LATITUDE 39°12'30"

11,708'

LATITUDE 39°15'00"

5,564' TO BOTTOM HOLE

Antero Resources Corporation Well No. Osborne #2H

NOTES: WELL 2H TOP HOLE INFORMATION: N: 249,776ft E: 1,622,129ft LAT: 39°10'41.11" LON: 80°49'58.67" BOTTOM HOLE INFORMATION: N: 262,156ft E: 1,616,644ft LAT: 39°12'42.65" LON: 80°51'10.69" 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 2H TOP HOLE INFORMATION: N: 4,336,562m E: 514,442m BOTTOM HOLE INFORMATION: N: 4,340,305m E: 512,708m

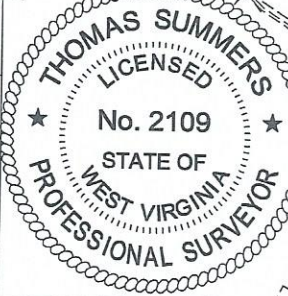
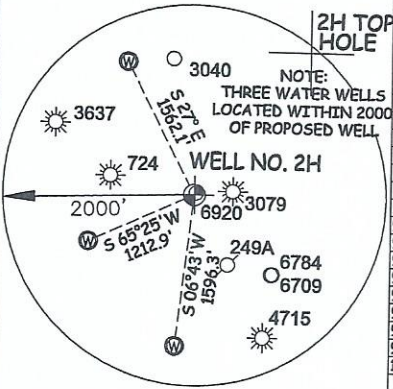
(NAD) 27 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 14,226,823ft E: 1,687,752ft POINT OF ENTRY INFORMATION: N: 14,226,600ft E: 1,686,571ft BOTTOM HOLE INFORMATION: N: 14,239,104ft E: 1,682,064ft

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.

WV NORTH ZONE GRID NORTH

Table with 9 columns: Letter, Name. Rows A-Q listing owners: A. N.H. LEGGETT ET AL, B. I.L. MORRIS, C. W.L. STINESPRING ET UX, E. OWEN T. WISE ET UX, F. SARAH D. SCOTT AND ROSCOE SCOTT, G. LINDA SUE BEACH, J. FLOYD LARRY WHEELER, K. BILLIE L. BARTEE, L. SOPHIA HILEMAN ET AL, M. SANDRA D. WHITE, N. HAZEL N. WEST ET AL, O. E.W. OSBURN ET AL, P. CHARLES J. DENNISON, Q. J. S. BRITTON ET UX.

Table with 2 columns: Parcel ID, Name. Lists adjacent landowners such as JEFFREY POLAN, CEVASCO FAMILY TRUST, JUANITA LEGGETT, I.L. MORRIS, JAMES WEBB, etc.



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.

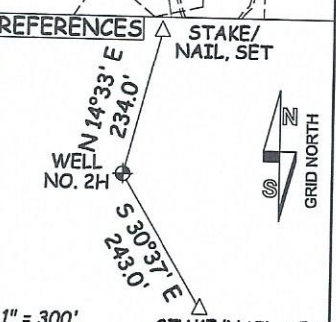
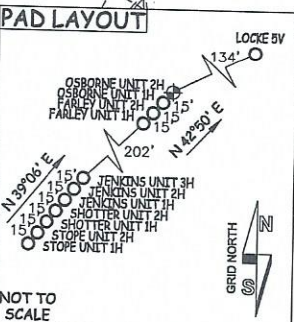


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

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

JOB # 23-019WA DRAWING # OSBORNEZHPR SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND: Surface Owner Boundary Lines +/-, Adjoining Surface Tracts +/-, Found monument, as noted. THOMAS SUMMERS P.S. 2109 DATE 01/16/24 OPERATOR'S WELL# OSBORNE UNIT #2H



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X LOCATION: ELEVATION 1,100.5' - AS BUILT QUADRANGLE OXFORD 7.5' WATERSHED SOUTH FORK HUGHES RIVER SURFACE OWNER ANTERO RESOURCES CORPORATION DISTRICT SOUTHWEST COUNTY DODDRIDGE OIL & GAS ROYALTY OWNER E. W. OSBORNE ET AL ACREAGE 59.74 ACRES +/- LEASE ACREAGE 180 AC±

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE (SPECIFY) MOD-BHL PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL X TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH 7,000' TVD 22,500' MD ADDRESS 1615 WYNKOOP ST. DENVER, CO 80202 DESIGNATED AGENT KEVIN ELLIS ADDRESS 535 WHITE OAKS BLVD BRIDGEPORT, WV 26330

LONGITUDE 80°50'00"

LONGITUDE 80°47'30"

COUNTY NAME PERMIT

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
O: E.W. Osbourne Et Al Lease			
E.W. Osbourne Et Al	Hope Natural Gas	1/8	0057/0132
Hope Natural Gas	Trio Oil and Gas Company	Assignment	0072/0496
Trio Oil and Gas Company	Charter D. Stinespring, Paul B. Davis & G.W. Hill	Assignment	0131/0687
Charter D. Stinespring, Paul B. Davis & G.W. Hill	J & J Enterprises, Inc.	Assignment	0131/0762
J & J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	0159/0139
Eastern American Energy Corporation	Energy Corporation of America	Merger	0006/0450
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	0272/0307
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
N: Hazel N. West Et Al Lease			
Hazel N. West, Et Al	Hugh Spencer	1/8	0128/0114
Hugh Spencer	Trustees of the Hugh K. Spencer Revocable Trust	Assignment	0032/0107
Trustees of the Hugh K. Spencer Revocable Trust	Spencer Enterprises, LLC	Assignment	0199/0534
Spencer Enterprises, LLC	Antero Resources Appalachian Corporation	Assignment	0264/0099
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
K: Billie L. Bartee Lease			
Billie L. Bartee	Antero Resources Corporation	1/8+	0477/0021
L: Sophia Hileman Et Al Lease			
Sophia Hileman, Et Al	Hugh Spencer	1/8	0091/0246
Hugh Spencer	Trustees of the Hugh K. Spencer Revocable Trust	Assignment	0032/0107
Trustees of the Hugh K. Spencer Revocable Trust	Spencer Enterprises, LLC	Assignment	0199/0534
Spencer Enterprises, LLC	Antero Resources Appalachian Corporation	Assignment	0264/0009
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
K: Billie L. Bartee Lease			
Billie L. Bartee	Antero Resources Corporation	1/8+	0477/0021
J: Floyd Larry Wheeler Lease			
Floyd Larry Wheeler	Antero Resources Corporation	1/8+	0521/0044
G: Linda Sue Beach Lease			
Linda Sue Beach	Antero Resources Corporation	1/8+	0519/0531

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
F: Sarah D. Scott and Roscoe Scott Lease			
Sarah D. and Roscoe Scott E.E. Zinn, W.C. Broadwater, & E.M. Nutter	E.E. Zinn, W.C. Broadwater, & E.M. Nutter E.E. Zinn, Juna Broadwater, E.M. Nutter, L.R. Boyce, F. Zinn, P.M. Broadwater Rowena S Black, B.W. Foley, J.W. Dotson, Zana Nutter, N.H. Leggett, Charles Bee, O.P. Broadwater, F.B. Zinn, Reed A Zinn, O.O. Wise, Lee Prunty, Willis Calhoun, Eli Nutter, Ocal Gray, R.J. Broadwater, E.O. Wilson, & Gary Zinn	1/8 Assignment	0040/0245 0001/0048
E.E. Zinn, Juna Broadwater, E.M. Nutter, L.R. Boyce, F. Zinn, P.M. Broadwater Rowena S Black, B.W. Foley, J.W. Dotson, Zana Nutter, N.H. Leggett, Charles Bee, O.P. Broadwater, F.B. Zinn, Reed A Zinn, O.O. Wise, Lee Prunty, Willis Calhoun, Eli Nutter, Ocal Gray, R.J. Broadwater, E.O. Wilson, & Gary Zinn	E.E. Zinn & E.M. Nutter, as true and lawful Attorneys in Fact	Assignment	0001/0048
E.E. Zinn & E.M. Nutter, as true and lawful Attorneys in Fact Murphy Oil Company Dilmur Oil Company Targa Development Inc Antero Resources Appalachian Corporation	Murphy Oil Company Dilmur Oil Company Targa Development Inc Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Assignment Assignment Assignment Name Change	0047/0469 0091/0734 0165/0436 0257/0362 0046/0523
C: W.L. Stinespring Et Ux Lease			
W.L. Stinespring, Et Ux Philadelphia Company of West Virginia Oil & Gas Pittsburgh & West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitrans LP Equitable Production-Eastern States Inc. Equitable Production Company EQT Production Company	Philadelphia Company of West Virginia Oil & Gas Pittsburgh & West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitrans LP Equitable Production-Eastern States Inc. Equitable Production Company EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Merger Assignment Merger Name Change Assignment	0026/0345 0032/0253 0121/0303 0154/0475 0329/0645 0192/0019 0281/0346 0281/0346 0371/0270
B: I.L. Morris Lease			
I.L. Morris	Antero Resources Corporation	1/8+	0348/0544

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Office of Oil and Gas

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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 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.

12/20/2024

**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)**

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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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>A: N.H. Leggett Et Al Lease</u>	N.H. Leggett Et Al Alton Skinner Chase Petroleum Inc. Antero Resources Appalachian Corporation	Alton Skinner Chase Petroleum Inc. Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Assignment Name Change	0118/0330 0123/0277 0260/0117 0046/0523

*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.

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**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

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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