



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

Monday, April 3, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for SPILI UNIT 1H
47-095-02843-00-00

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 typed name and title.

Operator's Well Number: SPILI UNIT 1H
Farm Name: EDWARD YOST ESTATE
U.S. WELL NUMBER: 47-095-02843-00-00
Horizontal 6A New Drill
Date Modification Issued: 04/03/2023

Promoting a healthy environment.

04/07/2023

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

- 1) Well Operator: Antero Resources Corporation 494507062 095 - Tyler Ellsworth Porter Falls 7.5'
Operator ID County District Quadrangle
- 2) Operator's Well Number: Spili Unit 1H MOD Well Pad Name: Ed Yost
- 3) Farm Name/Surface Owner: Edward Yost Estate Public Road Access: CR 11
- 4) Elevation, current ground: 1233' - 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: 7200' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#
- 8) Proposed Total Vertical Depth: 7200' TVD
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 28000' MD
- 11) Proposed Horizontal Leg Length: 19049'
- 12) Approximate Fresh Water Strata Depths: 70', 203'
- 13) Method to Determine Fresh Water Depths: 4709500165 Offset well records. Depths have been adjusted according to surface elevations.
- 14) Approximate Saltwater Depths: 1810'
- 15) Approximate Coal Seam Depths: None Anticipated
- 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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M. King
3124123

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#	300	300 ✓	CTS, 313 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#	28000	28000 ✓	6128 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"	0.438"	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	Lead-H/POZ & Tst1-H	H/POZ-1.44 & 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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Jim
3/24/23

04/07/2023

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

Drill, perforate, fracture a new horizontal shallow well and complete 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): 81.82 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.91 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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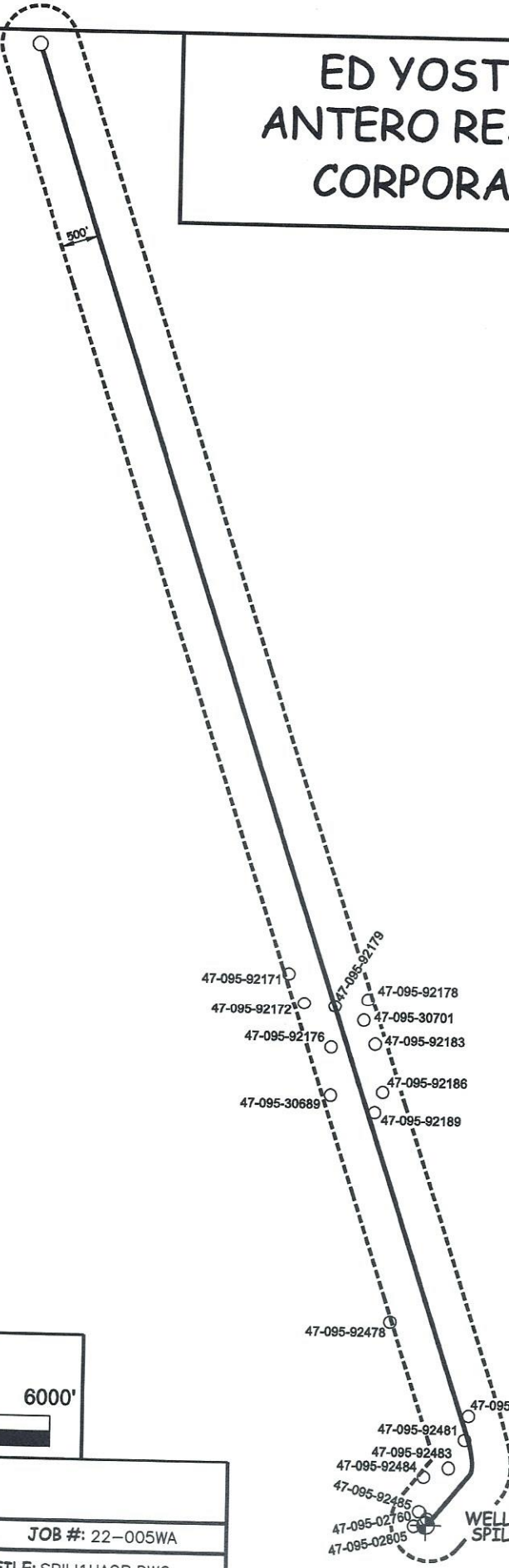
Page 3 of 3

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[Signature]
3/24/23

04/07/2023

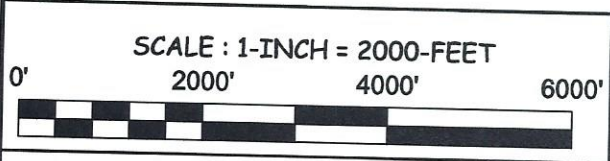
ED YOST PAD ANTERO RESOURCES CORPORATION



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WILLOW LAND SURVEYING, PLLC P.O. BOX 17, PENNSBORO, WV 26415 (304) 659-1717		JOB #: 22-005WA
DATE: 02/14/23	DRAWN BY: D.L.P.	FILE: SPILI1HAOR.DWG

WELL NO.
SPILI 1H

04/07/2023

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Produccible Formation(s) not perf'd
47095027600000	AR ED YOST UNIT 5H	5H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP				
47095924850000	<i>Yost</i>					<i>Plugged</i>		
47095028050000								
47095924840000								
47095924830000								
47095924810000								
47095924800000								
47095924780000								
47095921890000								
47095306890000	R F RICE	2	VALLEY STEEL PROD CO	VALLEY STEEL PROD CO				
47095921860000								
47095921760000								
47095921830000								
47095307010000	AARON JACOBS	2	VALLEY STEEL PROD CO	VALLEY STEEL PROD CO	1,935		Keener	Weir, Benson, Alexander
47095921780000								
47095921790000								
47095921720000								
47095921710000								
47095921790000								

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LATITUDE 39°35'00" 893'

6,634' TO BOTTOM HOLE

LATITUDE 39°37'30"

8,917' TO BOTTOM HOLE

12,886'

LONGITUDE 80°50'00"

LONGITUDE 80°50'00"

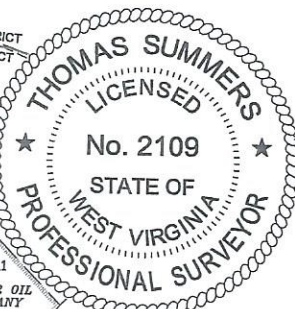
Antero Resources Corporation Well No. Spili Unit 1H

GREEN DISTRICT - WETZEL COUNTY	
6-10	CRISTEL STEELE
6-10.1	LUELLA RABEL
6-10.2	SVEN RABEL
ELLSWORTH DISTRICT - TYLER COUNTY	
1-3	DANIEL WITSCHY
1-4	DANIEL WITSCHY
1-6	DANIEL WITSCHY
1-7	MICHAEL DAUGHERTY
1-8	WITSCHY REALTY INC.
1-9	WITSCHY REALTY INC.
1-10	GEREMMY LAUDERMAN
1-13	JOHN STEELE
1-14	LUELLA RABEL
1-15	CRISTEL STEELE
3-1	WITSCHY REALTY INC.
3-2	JOYCE MORRIS
3-6	JOYCE MORRIS
3-7	JOYCE MORRIS
3-7.2	JEFFREY SHADE
3-11	JOYCE MORRIS
3-15	JCW INC.
3-16	JCW INC.
3-17	WITSCHY REALTY INC.
3-23	DAVID MILLER
3-23.1	DAVID MILLER
3-31	ROBERT MCNEMAR
3-31.1	DANNY TANLEY
3-39	PAUL STRICKLAND
4-8	PAUL STRICKLAND
6-46	NANCY MERCER
7-2	NANCY MERCER
7-2.1	NANCY MERCER
7-3	MYRON NOTTINGHAM
7-17	JIMMY SAILOR
7-17.1	GAYLE HARRIS
7-18	LUCILLE GULLEY
7-18.1	LUCILLE GULLEY
7-18.2	LUCILLE GULLEY
7-18.3	LUCILLE GULLEY
7-28	EDWARD YOST
7-28.1	GEORGE YOST
7-28.2	ERNEST YOST
7-29	EDWARD YOST
7-30	FLODE YOST
7-31	EDWARD YOST
7-32	ROBERT MERCER
7-33	GARY MIDCAP

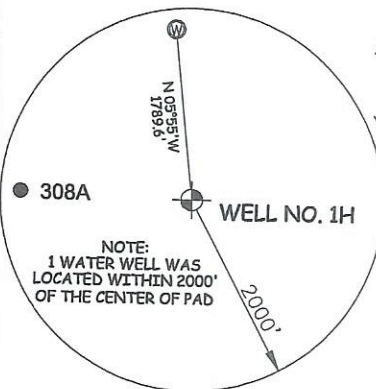
NOTES:
WELL 1H TOP HOLE INFORMATION:
 N: 384,491ft E: 1,623,131ft
 LAT: 39°32'52.64" LON: 80°50'11.40"
BOTTOM HOLE INFORMATION:
 N: 403,720ft E: 1,617,674ft
 LAT: 39°36'01.86" LON: 80°51'24.76"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,377,608m E: 514,063m
BOTTOM HOLE INFORMATION:
 N: 4,383,439m E: 512,303m

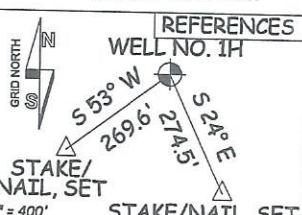
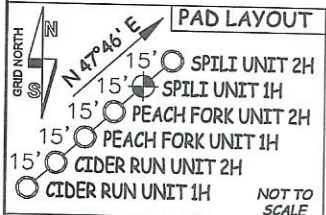
(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
 N: 14,361,488ft E: 1,686,507ft
POINT OF ENTRY INFORMATION:
 N: 14,362,621ft E: 1,686,959ft
BOTTOM HOLE INFORMATION:
 N: 14,380,616ft E: 1,680,732ft



WV NORTH ZONE
GRID NORTH



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.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

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.

JOB # 20-011WA
 DRAWING # SPILI1HR
 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 02/13/23
 OPERATOR'S WELL# SPILI UNIT #1H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 47 - 095 - 02843
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,233' - AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER
 SURFACE OWNER EDWARD YOST ESTATE ACREAGE 109.06 ACRES +/-
 OIL & GAS ROYALTY OWNER FISHER OIL COMPANY; LINDA K. LOEHR; RIDGEWOOD DEVELOPMENT LLC; JUSTUS A. EAKIN LEASE ACREAGE 45.67 AC.; 82 AC.; 25.19 AC.; 49.94 AC.;
 LEONARD GREGORY APPLEMAN; WILLIAM D. LEMON; RIDGETOP CAPITAL II LP; EUGENE CARLTON SHANK; NANCY L. MERCER; JAMES L. NEFF & ELAINE G. GLENDENNING; 3 AC.; 168.95 AC.; 52 AC.; 32.1 AC.; 79.5 AC.; 118.73 AC.;
 EDWARD F. BUCK ET UX; CARL E. RICE; JOYCE ANN LONG; FISHER OIL COMPANY; JCW INC.; JCW INC.; GRASSY KNOB LLC; GRASSY KNOB LLC; 43.93 AC.; 24.56 AC.; 41.59 AC.; 59 AC.; 50 AC.; 50 AC.; 39.34 AC.;
 GRASSY KNOB LLC; JOHN STEELE ET UX; LUELLA R. RABEL; JOHN STEELE ET UX; CIDER RUN MINERALS HOLDING LLC; PEACH FORK MINERAL HOLDING LLC. 20 AC.; 3.6 AC.; 96.37 AC.; 3.6 AC.; 26.21 AC.; 83.82 AC.;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL
 TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG
 WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH 7,200' TVD 28,000' MD
 ADDRESS 1615 WYNKOOP ST. ADDRESS KEVIN ELLIS
 DENVER, CO 80202 ADDRESS 535 WHITE OAK BLVD. BRIDGEPORT, WV 26330

04/07/2023

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>Fisher Oil Company Lease</u> Fisher Oil Company	Antero Resources Corporation	1/8+	19/535
<u>Linda K. Loehr Lease</u> Linda K. Loehr	Antero Resources Corporation	1/8+	494/518
<u>Ridgewood Development LLC Lease</u> Ridgewood Development LLC	Antero Resources Corporation	1/8+	185/337
<u>Justus A. Eakin Lease</u> Justus A. Eakin	Antero Resources Corporation	1/8+	53/104
<u>Leonard Gregory Appleman Lease</u> Leonard Gregory Appleman	Antero Resources Corporation	1/8+	220/389
<u>William D. Lemon Lease</u> William D. Lemon Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	420/439 557/430
<u>Ridgetop Capitol II, LP Lease</u> Ridgetop Capitol II, LP	Antero Resources Corporation	1/8+	148/192
<u>Eugene Carlton Shank Lease</u> Eugen Carlton Shank	Antero Resources Corporation	1/8+	21/656
<u>Nancy L. Mercer Lease</u> Nancy L. Mercer	Antero Resources Corporation	1/8+	190/415
<u>James L. Neff & Elaine G. Glendenning Lease</u> James L. Neff & Elaine G. Glendenning	Antero Resources Corporation	1/8+	591/427
<u>Edward F. Buck et ux Lease</u> Edward F. Buck et ux	Antero Resources Corporation	1/8+	552/700
<u>Joyce Ann Long Lease</u> Joyce Ann Long	Antero Resources Corporation	1/8+	148/205
<u>Carl E. Rice Lease</u> Carl E. Rice	Antero Resources Corporation	1/8+	208/557
<u>Joyce Ann Long Lease</u> Joyce Ann Long	Antero Resources Corporation	1/8+	148/205
<u>Carl E. Rice Lease</u> Carl E. Rice	Antero Resources Corporation	1/8+	208/557
<u>Fisher Oil Company Lease</u> Fisher Oil Company	Antero Resources Corporation	1/8+	667/682

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>JCW, Inc. Lease</u> JCW, Inc.	Antero Resources Corporation	1/8+	208/547
<u>JCW, Inc. Lease</u> JCW, Inc.	Antero Resources Corporation	1/8+	208/547
<u>Grassy Knob LLC Lease</u> Grassy Knob LLC	Antero Resources Corporation	1/8+	177/207
<u>Grassy Knob LLC Lease</u> Grassy Knob LLC	Antero Resources Corporation	1/8+	177/207
<u>Grassy Knob LLC Lease</u> Grassy Knob LLC	Antero Resources Corporation	1/8+	177/207
<u>John Steele et ux Lease</u> John Steel et ux	Antero Resources Corporation	1/8+	177/198
<u>Luella R. Rabel Lease</u> Luella R. Rabel	Antero Resources Corporation	1/8+	177/222
<u>John Steele et ux Lease</u> John Steel et ux	Antero Resources Corporation	1/8+	177/198
<u>Cider Run Mineral Holdings, LLC Lease</u> Cider Run Mineral Holdings, LLC	Antero Resources Corporation	1/8+	177/165

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*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.

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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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>Peach Fork Mineral Holdings Lease</u>	Peach Fork Mineral Holdings	Antero Resources Corporation	1/8+	0177/0184

*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.

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



March 17, 2023

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Mr. Taylor Brewer
601 57th Street
Charleston, WV 25304

Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modification for approved well on the existing Ed Yost Pad: Spili Unit 1H (47-095-02843).

Attached you will find the following:

- Revised Form WW-6B
- Revised Form WW-6A1
- Revised Mylar Plat
- AOR

Check # 4017586
\$ 2500⁰⁰

If you have any questions please feel free to contact me at (303) 357-7182.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink that reads "S Gaspar".

Stefan Gaspar
Permitting Agent
Antero Resources Corporation

Enclosures

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