



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 FARLEY UNIT 1H
47-017-06970-00-00

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.

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

James A. Martin
Chief

Operator's Well Number: FARLEY UNIT 1H
Farm Name: ANTERO RESOURCES CORPORATION
U.S. WELL NUMBER: 47-017-06970-00-00
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 - Dodd Southwest Oxford 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Farley Unit 1H 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: 25500' MD

11) Proposed Horizontal Leg Length: 14514' *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# 4037216
\$7500.00
12/5/2024

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18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	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#	25500'	25500'	CTS, 5498 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	24"	0.375"	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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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

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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*Note: Attach additional sheets as needed.

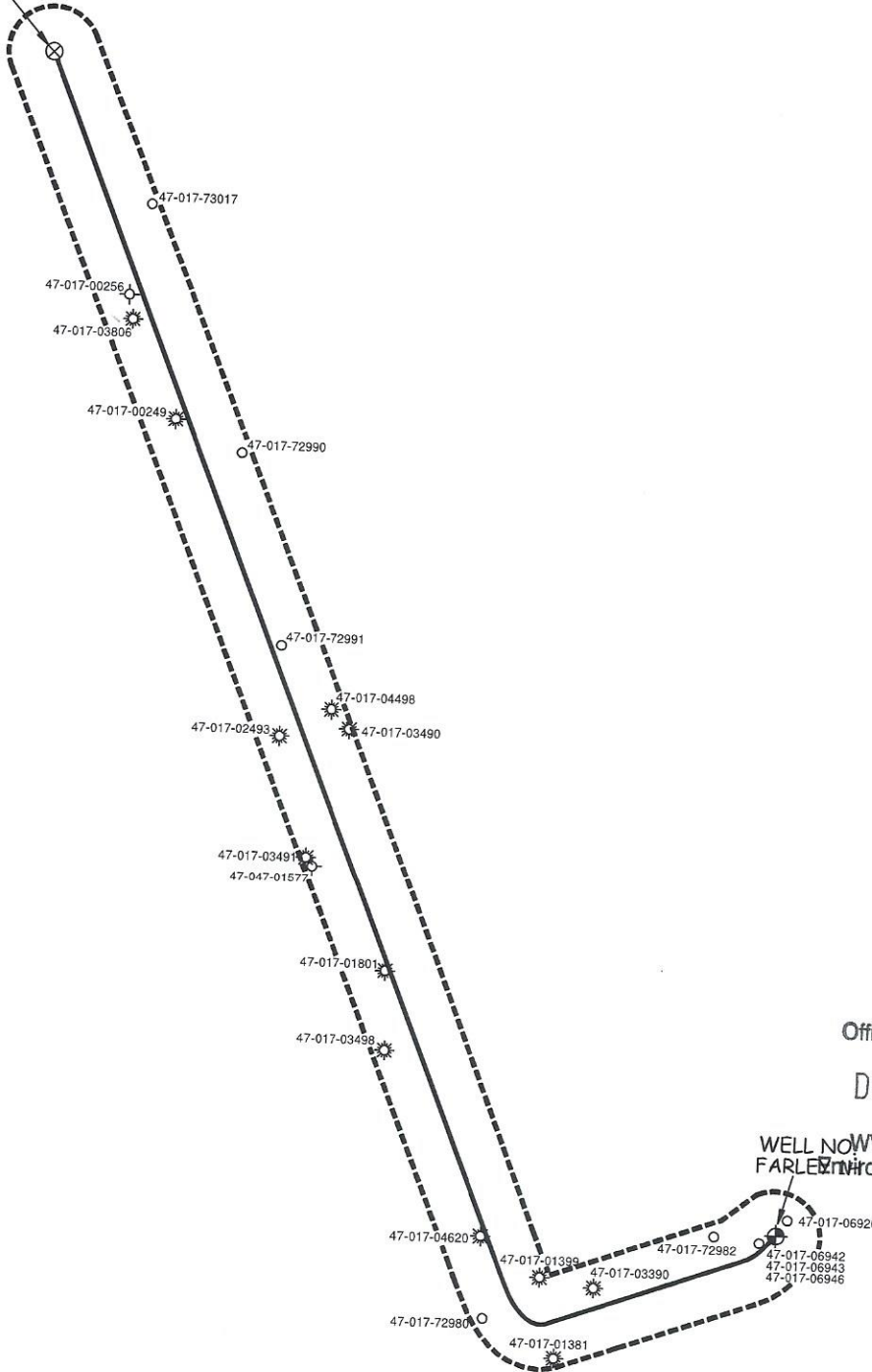
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Page 3 of 3

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

LOCKE PAD ANTERO RESOURCES CORPORATION

WELL 1H
BOTTOM
HOLE



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

JOB #: 23-019WA

FILE: FARLEY1HAOR.DWG

SCALE : 1-INCH = 2000-FEET



DATE: 12/5/2024

DRAWN BY: D.L.P.

12/20/2024

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Productible Formation(s) not perf'd
47017069200000	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	ANTERO RESOURCES CORP	16,978	6926 - 16847	Marcellus	
47017033900000	OSBURN E W	J-807	GREYLOCK CONVENTIONAL LLC	UNKNOWN				
47017013810000	DAVID D BALL	1	R & R OIL & GAS LLC	J & J ENTERPRISES	5,988			
47017013990000	E W OSBORNE	2	TRIO OIL & GAS	FRIESTAD FRANCIS	2,044	4273 - 4969	Riley, Alexander	Weir, Benson
47017729800000	DAVID D BALL	2	UNKNOWN	TRIO PETROLEUM INC	2,035		Salt Sands, Maxton, Blue Monday, Big Lime, Big Injun	Weir, Benson, Alexander
47017046200000	WHITEHAIR	7	KEY OIL CO	UNKNOWN			Big Injun	Weir, Benson, Alexander
47017034980000	GRAY M B HEIRS	2287	DIVERSIFIED PRODUCTION LLC	KEY OIL CO	5,328	3294 - 5145		Weir, Benson, Alexander
47017018010000	J M GRAY	A-561	MINERAL RESOURCES MANAGEMENT LLC	CNG DEVELOPMENT CO	5,239	5025 - 5079	Speechley, Riley, Benson, Alexander	Weir
47017015770000	GRAY M B	11204	CONSOL GAS SUPPLY CRP	ALLEGHENY LAND&MNRL	2,070	1920 - 1925	Big Injun, Riley, Benson, Alexander	Weir
47017034910000	GRAY M B HEIRS	2285	DIVERSIFIED PRODUCTION LLC	CONSOL GAS SUPPLY CRP	1,934	1790 - 1855	Big Injun	Weir
47017024930000	GRAY CLEO C	A-851	MINERAL RESOURCES MANAGEMENT LLC	CNG DEVELOPMENT CO	5,148	4976 - 5057	Big Injun	Weir
47017034900000	GRAY M B HEIRS	2290	DIVERSIFIED PRODUCTION LLC	ALLEGHENY LAND&MNRL	2,578	2010 - 2306	Penn Systems, Undf Price, Alexander	Weir, Benson
47017044980000	SCOTT	2	KEY OIL CO	CNG DEVELOPMENT CO	5,405	5158 - 5206	Big Injun, Weir	Weir
47017729910000	LLOYD W GRAY	5144	HOPE NATURAL GAS	KEY OIL CO	5,376	3360 - 5196	Alexander	Weir
47017729900000	SARAH D & R SCOTT	1	UNKNOWN	HOPE NATURAL GAS			Warren, Speechley, Balltown, Riley, Benson, Elk, Alexander	Weir
47017002490000	W B MAXWELL ESTATE	1	HARPER CROSBY HOLDINGS LLC	UNKNOWN				
47017038060000	BLAUSER/W B MAXWELL	32	GREYLOCK CONVENTIONAL LLC	UNKNOWN	2,014			
47017002560000	DORSEY E HUFF	2	TIGER OIL INC	EASTERN AMERICAN ENE	5,076	3850 - 4962		
47017730170000	ANGELINE MICHAELS	4636	PHILADELPHIA OIL	TIGER OIL INC	1,856		Balltown, Riley, Benson, Alexander	Weir
				PHILADELPHIA OIL				

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LATITUDE 39°12'30"

11,738'

LATITUDE 39°15'00"

8,473' TO BOTTOM HOLE

Antero Resources Corporation Well No. Farley #1H

NOTES:

WELL 1H TOP HOLE INFORMATION: N: 249,743ft E: 1,622,098ft LAT: 39°10'40.78" LON: 80°49'59.06" BOTTOM HOLE INFORMATION: N: 262,576ft E: 1,613,740ft LAT: 39°12'46.37" LON: 80°51'47.65" 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: 4,336,552m E: 514,433m BOTTOM HOLE INFORMATION: N: 4,340,419m E: 511,822m

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,226,789ft E: 1,687,722ft POINT OF ENTRY INFORMATION: N: 14,226,097ft E: 1,684,767ft BOTTOM HOLE INFORMATION: N: 14,239,476ft E: 1,679,154ft

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.

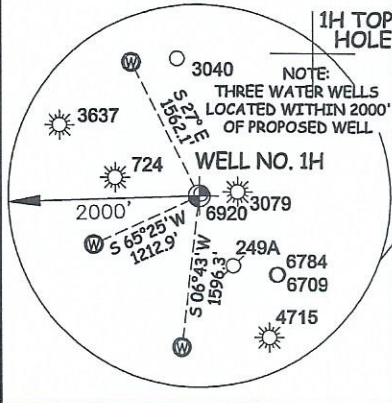


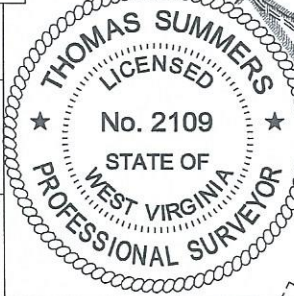
Table listing adjacent surface tracts with owner names and well identifiers (e.g., 1-1 JEFFREY POLAN, 4-2 CEVASCO FAMILY TRUST).

Table listing adjacent surface tracts with owner names and well identifiers (e.g., A RUSSELL H. GRAY ET AL, B JEFFREY C. POLAN).

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.

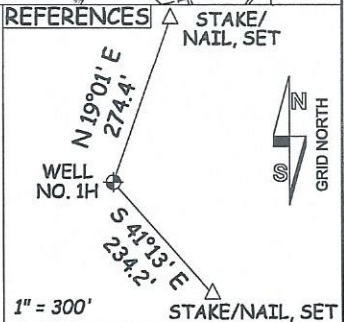
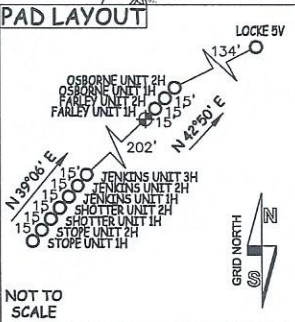


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



JOB # 23-019WA DRAWING # FARLEY1HPR1 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 P.S. 2109 DATE 01/29/24 OPERATOR'S WELL# FARLEY UNIT #1H



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 017 - 06970 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,100.5' - AS BUILT WATERSHED SOUTH FORK HUGHES RIVER QUADRANGLE OXFORD 7.5 DISTRICT SOUTHWEST COUNTY DODDRIDGE SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 59.74 ACRES +/- OIL & GAS ROYALTY OWNER E.W. OSBORNE ET AL LEASE ACREAGE 180 AC± 12/20/2024

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 7,000' TVD 25,500' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. 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)

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>N: E.W. Osbourne Et Al Lease</u>			
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	01590/139
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
<u>R: David D. Ball Et Ux Lease</u>			
David D. Ball Et Ux	L.E. Mossor & Harry Haddox	1/8	0089/0301
L.E. Mossor & Harry Haddox	Francis Friestad	Assignment	0089/0454
Francis Friestad	W.H. Thomson	Assignment	0090/0313
W.H. Thomson	Bet-Ro, Inc.	Assignment	0222/0426
Bet-Ro, Inc.	Key Oil Company	Assignment	0183/0418
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0255/0257
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
<u>P: David Dale Ball, Jr. Lease</u>			
David Dale Ball, Jr.	Antero Resources Corporation	1/8+	0417/0123
<u>N: E.W. Osborne Et Al Lease</u>			
E.W. Osborne 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
<u>M: Mary Zinn Lease</u>			
Mary Zinn	Key Oil Company	1/8	0188/0107
Key Oil Company	Antero Resources Appalachia Corporation	Assignment	0276/0526
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
<u>K: M.B. Gray Et Al Lease:</u>			
M.B. Gray and Mary Gray, Et Al	Hope Natural Gas Company	1/8	0057/0372
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0143/0345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Development	Assignment	0139/0041
CNG Development	Dominion Exploration and Production Inc.	Assignment	WVSOS
Dominion Exploration and Production Inc.	Dominion Transmission Inc.	Assignment	0244/0528
Dominion Transmission Inc.	Consol Energy Holdings LLC XVI	Assignment	0245/0001
Consol Energy Holdings LLC XVI	Consol Gas Company	Assignment	0293/0352
Consol Gas Company	CNX Gas Company	Merger	0293/0352
CNX Gas Company	Antero Resources Corporation	Merger	0293/0352
		Assignment	0332/0303

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
H: D.W. Gray and M.E. Gray			
D.W. Gray and M.E. Gray	M.G. Taylor	1/8	0030/0148
M.G. Taylor	Tri State Gas Company	Assignment	0026/0039
Tri State Gas Company	Hope Natural Gas Company	Assignment	0026/0093
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0143/0345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Development	Assignment	0139/0041
CNG Development	Dominion Exploration and Production Inc.	Merger	WVSOS
Dominion Exploration and Production Inc.	Dominion Transmission Inc.	Assignment	0244/0528
Dominion Transmission Inc.	Consol Energy Holdings LLC XVI	Assignment	0245/0001
Consol Energy Holdings LLC XVI	Consol Gas Company	Merger	0292/0469
Consol Gas Company	CNX Gas Company	Merger	0292/0469
CNX Gas Company	Noble Energy	Assignment	0339/0642
Noble Energy	Antero Resources Corporation	Assignment	0323/0303
J: Sarah D. Scott and Roscoe Scott Lease			
Sarah D. and Roscoe Scott	E.E. Zinn, W.C. Broadwater, & E.M. Nutter	1/8	0040/0245
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	Assignment	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	Assignment	0047/0469
Murphy Oil Company	Dilmur Oil Company	Assignment	0091/0734
Dilmur Oil Company	Targa Development Inc	Assignment	0165/0436
Targa Development Inc	Antero Resources Appalachian Corporation	Assignment	0257/0362
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
I: Owen T. Wise Et Ux Lease			
Owen T. Wise, Et Ux	Mountaineer Enterprises	1/8	0162/0210
Mountaineer Enterprises	Dolphin Petroleum, Inc.	Assignment	0162/0337
Dolphin Petroleum, Inc.	Tri-County Oil & Gas	Assignment	0209/0448
Tri-County Oil & Gas	May Gas, Inc.	Assignment	0219/0013
May Gas, Inc.	Hayhurst Company	Assignment	0229/0467
Hayhurst Company	Piney Holdings, Inc.	Assignment	0253/0146
Piney Holdings, Inc.	Antero Resources Corporation	Assignment	0362/0589

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
F: Brent Maxwell Et Ux Lease			
Brent Maxwell, Et Ux	Pittsburgh & West Virginia Gas Company	1/8	0037/0048
Pittsburgh & West Virginia Gas Company	Equitable Gas Company	Assignment	0121/0303
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc.	Equitrans, LP	Merger	0329/0645
Equitrans, LP	Equitable Production - Eastern States Inc.	Assignment	0192/0019
Equitable Production - Eastern States Inc.	Equitable Production Company	Merger	0281/0346
Equitable Production Company	EQT Production Company	Name Change	0281/0346
EQT Production Company	Antero Resources Corporation	Assignment	0371/0276
E: Sharon Wick Lease			
Sharon Wick	Antero Resources Corporation	1/8	Pooled Tract
C: Mildred Riddle Et Vir Lease			
Mildred Riddle, Et Vir	Clarence W. Mutschelknaus	1/8	0102/0618
Clarence W. Mutschelknaus	J. Robert Hornor	Assignment	0105/0277
J. Robert Hornor	Petroleum Development	Assignment	0112/0664
Petroleum Development	PDC Mountaineer LLC	Assignment	0240/0118
PDC Mountaineer LLC	Antero Resources Appalachian Corporation	Assignment	0278/0607
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	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.

*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.

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

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

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>B: Jeffrey C. Polan Lease</u>	Jeffrey C. Polan	Antero Resources Corporation	1/8+	0356/0537

*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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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrules, 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



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

December 6, 2024

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

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Locke Pad: Farley Unit 1H (47-017-06970), Farley Unit 2H (47-017-06971), Osborne Unit 1H (47-017-06972), and Osborne Unit 2H (47-017-06973) Expedited.

Attached you will find the following:

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

If you have any questions please feel free to contact me at (303) 357-6959.

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

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Enclosures

12/20/2024