

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

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for SHOTTER 1H

47-017-06945-00-00

LATERAL EXTENSION

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450

James A. Martin

Chief

Operator's Well Number: SHOTTER 1H

Farm Name: ANTERO RESOURCES CORPORATION

U.S. WELL NUMBER: 47-017-06945-00-00

Horizontal 6A New Drill

Date Modification Issued: 05/03/2023

Promoting a healthy environment.

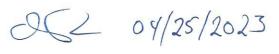
API NO. 47-017	- 06945		
OPERATOR	WELL NO.	Shotter Unit 1H MOD	1
Well Pad N	ame: Locke	Pad	

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

1) Well Operator: Antero Resources Corporat 494507062 017 - Doddri Southwei Oxford 7.5'	
Operator ID County District Quadrangle	
2) Operator's Well Number: Shotter 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 X Oil Underground Storage	-
Other	
(b)If Gas Shallow X Deep	
Horizontal X	
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: 20000' MD	
11) Proposed Horizontal Leg Length: 10781' *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 elevated acco	
14) Approximate Saltwater Depths: 1733', 1750'	ons.
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 X	
threetry overlying or adjacent to an active mine? Yes No X	
(a) If Yes, provide Mine Info: Name:	
Depth:	_
Seam:	
Owner: RECEIVED Office Of Oil and Gas	
MAY 1 2023	
WV Department of	

WV Department of Environmental Protection

Page 1 of 3



API NO. 47- 017 - 06945

OPERATOR WELL NO. Shotter Unit 1H MOD
Well Pad Name: Locke Pad

18)

CASING AND TUBING PROGRAM

TYPE		Marr	T				
	Size	New	01	Weight per ft.	FOOTAGE: For	INTERVALS:	CEMENT:
	(in)	or	Grade	(lb/ft)	Drilling (ft)	Left in Well	Fill-up
		Used		<u> </u>	211111111111111111111111111111111111111	<u>(ft)</u>	(Cu. Ft.)/CTS
Conductor	20"	New	H-40	79#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	376'	376'	CTS, 392 Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							,
Production	5-1/2"	New	P-110CY	20#	20000'	20000'	CTS, 4112 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			0.0, 1.12 00.11.
Liners							

ТҮРЕ	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	85				7000	Oldoo / UZ	1.10
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			1.0
Liners				,200			

PACKERS

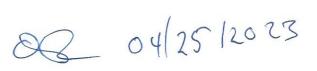
Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

Office Of Oil and Gas

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WV Department of Environmental Protection

Page 2 of 3



OPERATOR WELL NO. Shotter Unit 1H MOD
Well Pad Name: Locke 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): 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.

*Note: Attach additional sheets as needed.

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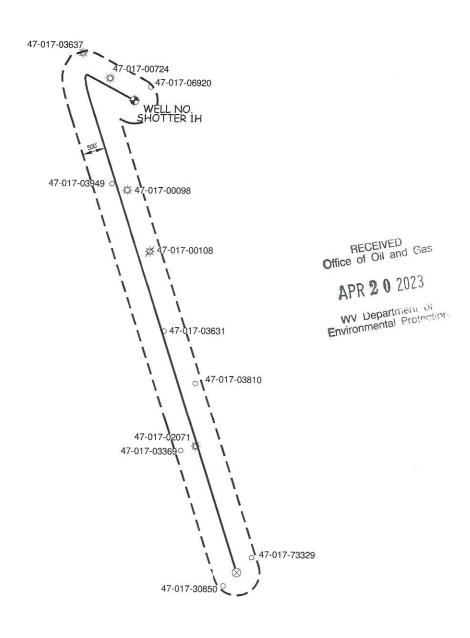
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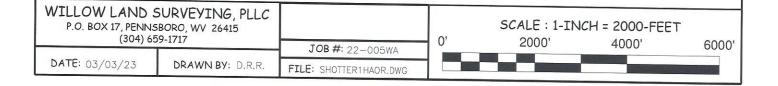
Page 3 of 3

2 04/25/2023

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LOCKE PAD ANTERO RESOURCES CORPORATION



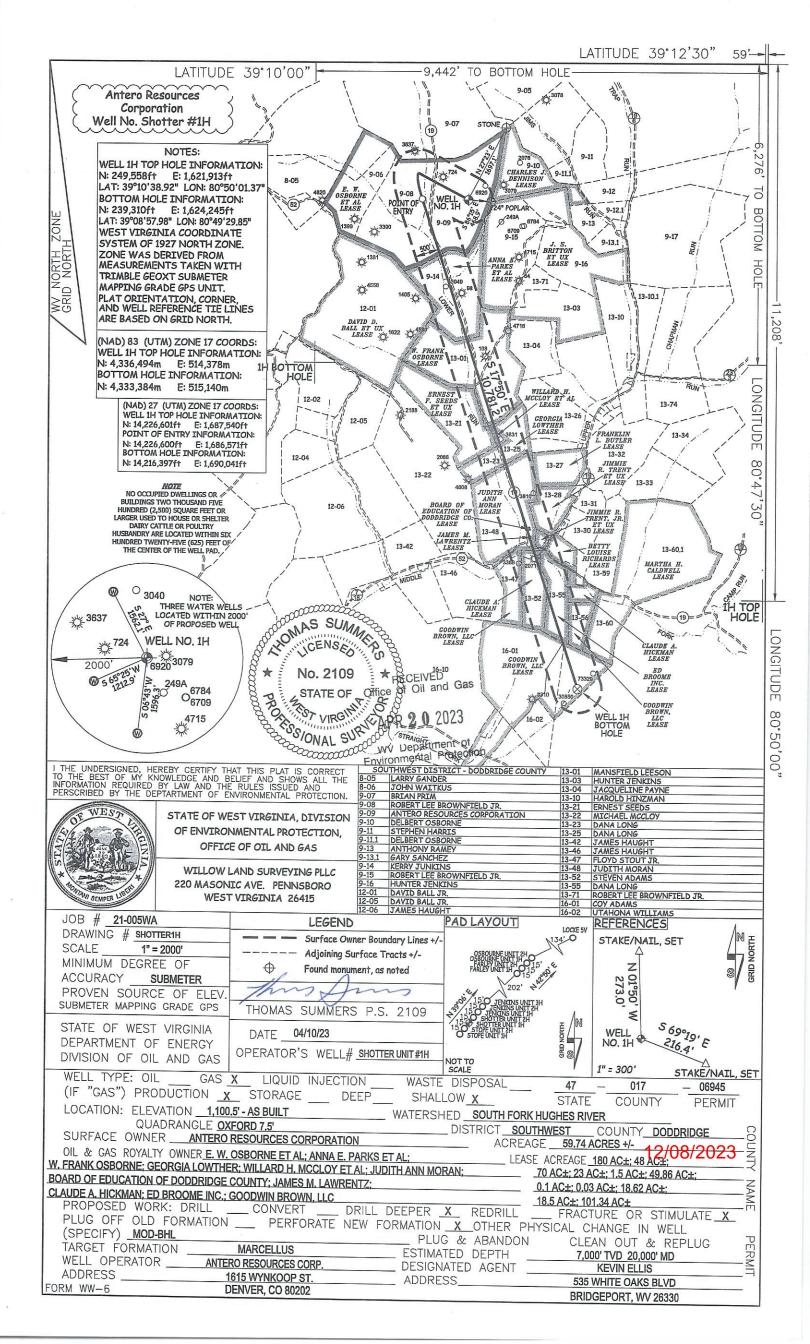


EW OSBURN Well Name Well Name Well Name Well Name Perforated Interval (shallowest, deepest) TRIO Degrator								
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Office of Oil and Gas

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WV Department of Environmental Protection



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
E.W. Osborne et al Lease		- To young	DOOM age
E.W. Osborne, et al	Hope Natural Gas	5. 6-	
Hope Natural Gas	Trio Oil and Gas Company	1/8	0057/0132
	The off and our company	Assignment	0072/0496
Trio Oil and Gas Company	Charter D. Stinespring, Paul B. Davis, and G.W. Hill	Assignment	0131/0687
Charter D. Stinespring, Paul B. Davis, and G.W. Hill	J&J Enterprises, Inc.	Assignment	0131/0762
J&J Enterprises, Inc. Eastern American Energy Corp. Energy Corporation of America Antero Resources Appalachian Corporation	Eastern American Energy Corp. Energy Corporation of America Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Merger Assignment Name Change	0159/0139 0006/0450 0272/0307 0046/0523
Anna E. Parks et al Lease		RECEIVED Office of Oil and O	3as
Anna E. Parks, et al	Piu I a un a	1/8 APR 2 0 202	3
Pittsburgh & WV Gas Company	Pittsburgh & WV Gas Company	1/8 APR 2 0 202	0051/0454
Equitable Gas Company	Equitable Gas Company	Assignment Assignment WV Departmen Deed Environmental Pro	t of Q121/0257
Equitrans, Inc.	Equitrans, Inc.	Assignment WV Departal Pro	0155/0634
Equitrans, LP	Equitable Production Factors States 4		0302/0123
Equitable Production-Eastern States Inc.	Equitable Production-Eastern States Inc. Equitable Production Company	Assignment	0192/0019
Equitable Production Company	EQT Production Company	Merge	0281/0346
EQT Production Company	Antero Resources Corporation	Name Change Assignment	0281/0346 0487/0641
W. Frank Osborne Lease		613341	0407/0041
W. Frank Osborne	Pittsburgh & West Virginia Gas Company		
Pittsburgh & West Virginia Gas Company	Equitable Gas Company	1/8	0045/0301
Equitable Gas Company	Equitrans Inc.	Assignment	0121/0303
Equitrans Inc.	Equitrans LP	Assignment Deed	0154/0475
Equitrans LP	Equitable Production – Eastern States Inc.	Assignment	0302/0123
Equitable Production – Eastern States Inc.	Equitable Production Company	Merge	0192/0019
Equitable Production Company	EQT Production Company	Name Change	0281/0346 0281/0346
EQT Production Company	Antero Resources Corporation	Assignment	0487/0641
Willard H. McCloy et al Lease			
Willard H. McCloy et al	Beckler Energy Inc.	1/0	
Beckler Energy Inc.	Sheldon Associates Inc.	1/8	0151/0011
Sheldon Associates Inc.	Diversified Resources Inc.	Assignment	0152/0063
Diversified Resources Inc.	DRI Oil and Gas Inc.	Name Change Name Change	0054/0987
DRI Oil and Gas Inc.	Antero Resources Corporation	Assignment	WV SOS 0514/0419
Georgia Lowther Lease		_	3021,0123
Georgia Lowther	Key Oil Company	. 6	
Key Oil Company	Antero Resources Appalachian Corporation	1/8	0188/0063
Antero Resources Appalachian Corporation	Antero Resources Apparachian Corporation Antero Resources Corporation	Assignment	0256/0305
		Name Change	0046/0523

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- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
1	Judith Ann Moran <u>Lease</u> Judith Ann Moran	Antero Resources Corporation	1/8	0503/0711
/	Board of Education of Doddridge Co. Lease Board of Education of Doddridge Co.	Antero Resources Corporation	1/8+	0513/0039
/	James M. Lawrentz Lease James M. Lawrentz	Antero Resources Corporation	1/8+	0507/0275
	Claude A. Hickman Lease Claude A. Hickman	Antero Resources Corporation	1/8+	0502/0182
/	Ed Broome Inc. Lease Ed Broome Inc.	Antero Resources Corporation	1/8+	0471/0328

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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.

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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Lease Name or
Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/Page

Goodwin Brown, LLC Lease

Goodwin Brown, LLC Antero Resources Corporation 1/8+ 499/719

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

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Office of Oil and Gas

APR 2 0 2023

WV Department of Environmental Protection

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:

Max Green

Its:

Vice President - Land

Page of 3



April 19, 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 modifications for approved well on the existing Locke Pad: Shotter Unit 1H (47-017-06945) Expedited.

Attached you will find the following:

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

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Office of Oil and Gas

APR 20 2023

WV Department of Environmental Protection

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

Thank you in advance for your consideration.

Sincerely,

Stefan Gaspar Permitting Agent

Antero Resources Corporation

Enclosures