

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, September 17, 2025 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION **1615 WYNKOOP STREET**

DENVER, CO 80202

Re:

Permit Modification Approval for Parks Unit 1H

47-095-02939-00-00

Lateral Extension with Forced Pooling

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: Parks Unit 1H

Farm Name: EQT Production Co.

U.S. WELL NUMBER: 47-095-02939-00-00

Horizontal 6A New Drill

Date Modification Issued: 09/17/2025

Promoting a healthy environment.

API NO. 47-095	- 02939	
OPERATOR W	/ELL NO. Parks Unit 1H MOD	•
Well Pad Nar		/

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

						,	
1) Well Opera	ntor: Antero	Resources	Corpora	494507062	095 - Tyler	Ellsworth	Porter Falls 7.5'
			8	Operator ID	County	District	Quadrangle
2) Operator's	Well Numbe	r: Parks Un	it 1H MO	D / Well	Pad Name: Delta	a Pad	~ .
3) Farm Name	e/Surface Ow	ner: EQT P	roduction	Co / Public F	Road Access: CR	3 44	
4) Elevation, c	current groun	d: 1100'	El	levation, propos	ed post-construct	ion: 1078'	
5) Well Type	(a) Gas	х	Oil		nderground Stora		
	Other		_		aucigiouna stora		
	(b)If Gas	Shallow	Х	Deep			
		Horizontal	X		2		
6) Existing Pag	d: Yes or No	No					
7) Proposed Ta Marcellus SI	arget Format hale: 7300' T\	ion(s), Depth /D, Anticipate	(s), Anticed Thickne	ipated Thicknes ss- 55 feet, Asso	s and Expected Pociated Pressure- 2	ressure(s):	
8) Proposed To				1			
9) Formation a			Marcellus	1			
10) Proposed T			17200' M	D /			
11) Proposed H		_	6859' *(Open to modific	cation at a later of	date /	
12) Approxima		a a =		672' /		-	
13) Method to				7095020320000 Offset	well records. Donths have	Land out of the	
14) Approxima					weir records. Deptils flave	been adjusted ad	ccording to surface elevations.
(5) Approxima							
6) Approxima	ite Depth to I	Possible Voic	l (coal mi	ne, karst, other):	None Anticipa	ted	Office of Oil and Gas
7) Does Propo					-		SEP 02 2025
lirectly overlyi	ng or adjace	nt to an activ	e mine?	Yes	No	Х	WV Department of
(a) If Yes, pro							Environmental Protection
			1				
CK# 40	44/71	Depth:					
V 10	1 10 11	Seam:	1				
A	1500	Owner	-				
	8/28/202	5					

API NO. 47-_095 _ 02939

OPERATOR WELL NO. Parks Unit 1H MOD Well Pad Name: Delta Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size	New		William	T0.0=1	INTERVALS:	CEMENT:
	<u>(in)</u>	or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	Left in Well (ft)	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#	722'	722'	CTS, 752 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#	17200'	17200' /	CTS, 3406 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						Glado / WZ	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				7 . , — •			

RECEIVED Office of Oil and Gas

SEP 02 2025

PACKERS

		PACKERS	_ WV Department of
Kind:	N/A		WV Department of Environmental Protection
Sizes:	N/A		
Depths Set:	N/A		

API NO. 47- 095 - 02939

> OPERATOR WELL NO. Parks Unit 1H MOD Well Pad Name: Delta 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): 46.20 acres
- 22) Area to be disturbed for well pad only, less access road (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

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 WV Department of

Office of Oil and Gas SEP 0 2 2025

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.

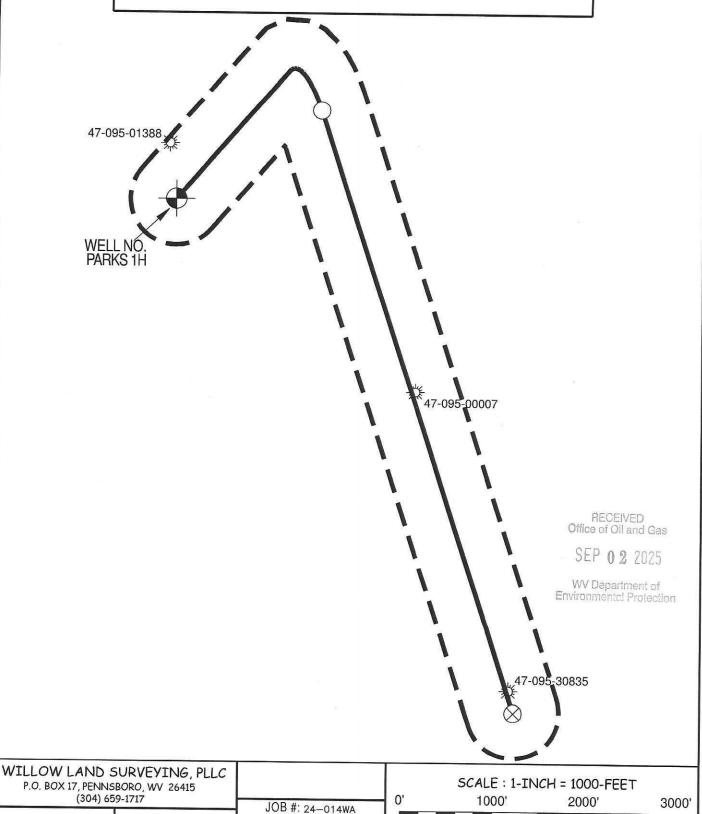
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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.

Mccoy Date: 2025.08.15 10:40:45





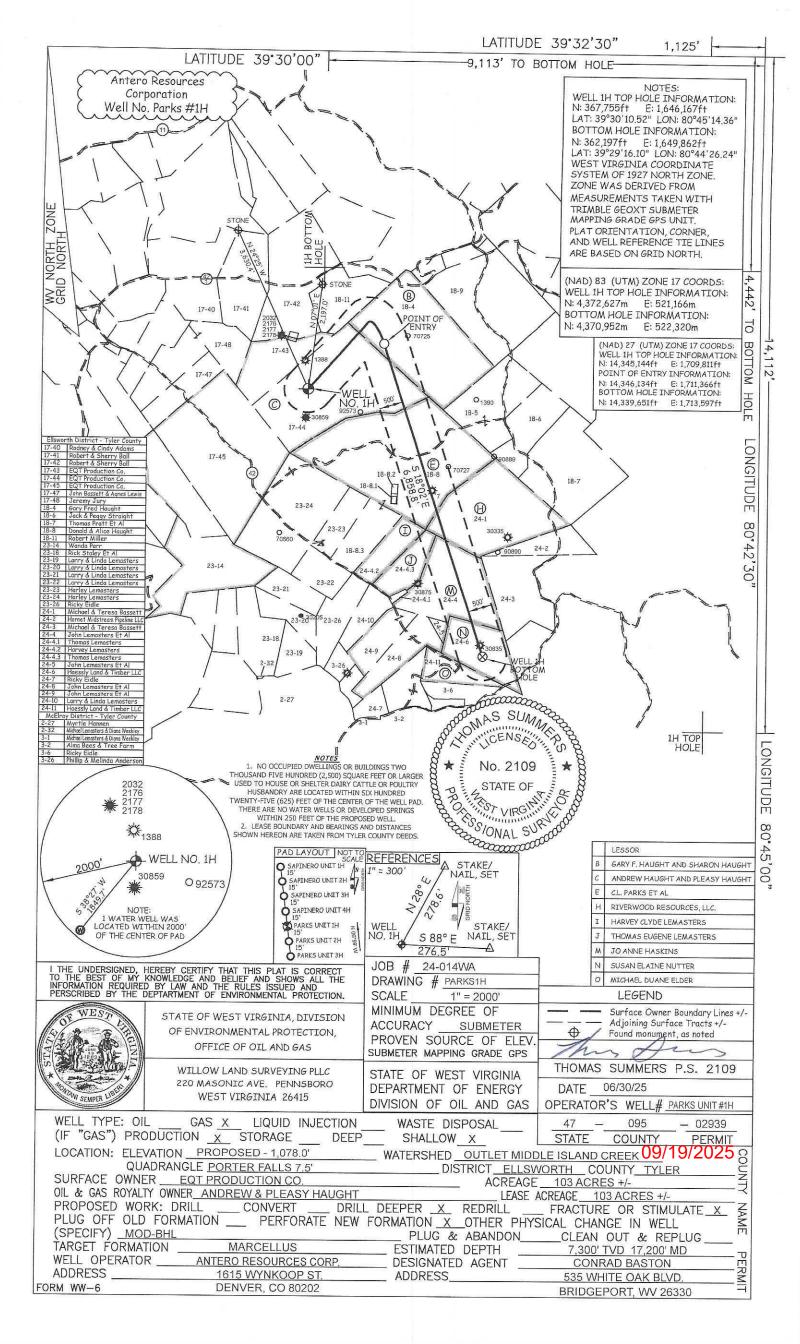
DATE: 06/16/25

DRAWN BY: T.B.S.

FILE: PARKS1HAOR.DWG

UWI (APINum)	Well Name	Well Number	Operator		1 1			
47005047000000			1001000000	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095013880000	HAUGHT ANDREW & PLEASY	1326	PERKINS OIL & GAS	MANUFACT LIGHT &HEAT	2.747		1-7	
47095000070000	CLPARKS	3449	PERKINS OIL & GAS				Gordon	Weir, Benson, Alexander
47095308350000	A M ELDER	100000000000000000000000000000000000000		MANUFACT LIGHT &HEAT	2,021		Big Injun	Weir, Benson, Alexander
4703330000	A IVI ELDER	3417	HOPE NATURAL GAS	HOPE NATURAL GAS	3,102		Gordon Strav	
							Gordon Stray	Weir, Benson, Alexander

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Office of Oil and Gas
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WV Department of



09/19/2025

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:

Andrew Haught & Pleasy Haught Lease Andrew Haught & Pleasy Haught E.H. Jennings & Bros.	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Pag
Andrew Haught & Pleasy Haught E.H. Jennings & Bros. E.G. Prekins Carl D. Perkins Carl D. Perkins E.G. Jennings & Assignment E.G. Jennings & Assignment E.G. Jennings & Bros. E.G. Perkins Oil & Gas E.G. Some Energy Corporation Stone Energy Corporation Stone Energy Corporation Antero Resources Cor	C: Andrew Haught and Pleasy Haught Lease			- 3
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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 N: Susan Elaine Nutter Lease	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Susan Elaine Nutter	Antero Resources Corporation	1/8+	0346/0206

*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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WV Department of 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 Reso	urces Corporation			
By:	Tim Rady	Car Vach			
Its:	Senior Vice President of Land				



August 29, 2025

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 Delta Pad: Parks Unit 1H (47-095-02939), Parks Unit 2H (47-095-02940), and Parks Unit 3H (47-095-02941) 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,

Stefan Gaspar Permitting Agent

Antero Resources Corporation

Enclosures

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Office of Oil and Gas

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WV Department of Environmental Protection