



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 20, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for DARRELL UNIT 1H
47-017-06968-00-00

Extended Lateral Length

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 blue ink signature of James A. Martin, Chief.

James A. Martin
Chief

Operator's Well Number: DARRELL UNIT 1H
Farm Name: Susan Haught Gido, et al
U.S. WELL NUMBER: 47-017-06968-00-00
Horizontal 6A New Drill
Date Modification Issued: 12-20-2023

Promoting a healthy environment.

12/22/2023

WW-6B
(04/15)

API NO. 47-017 - 0696
OPERATOR WELL NO. Darrell Unit 1H MOD
Well Pad Name: Haught Pad

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-Doddr New Mil New Milton 7.5'
Operator ID County District Quadrangle
- 2) Operator's Well Number: Darrell Unit 1H MOD Well Pad Name: Haught Pad
- 3) Farm Name/Surface Owner: Susan Haught Gido, et al Public Road Access: Brushy Fork Road
- 4) Elevation, current ground: 1190' Elevation, proposed post-construction: 1194'
- 5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal
- 6) Existing Pad: Yes or No No
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#
- 8) Proposed Total Vertical Depth: 7700' TVD
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 25000' MD
- 11) Proposed Horizontal Leg Length: 13922.2
- 12) Approximate Fresh Water Strata Depths: 271'
- 13) Method to Determine Fresh Water Depths: 4701701798000 Offset well records. Depths have been adjusted according to surface elevations.
- 14) Approximate Saltwater Depths: 2406'
- 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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DEC 18 2023
WV Department of
Environmental Protection
Page 1 of 9

12/22/2023

WW-6B
(04/15)

API NO. 47-017 - 06968
OPERATOR WELL NO. Darrell Unit 1H MOD
Well Pad Name: Haught 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	H-40	94#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	321	321	CTS, 334 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#	25000	25000	5372 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Ernest L. Reynolds 12-14-23

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	LEMO-HP02 & TM-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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DEC 18 2023

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Environmental Protection
Page 2 of 3

12/22/2023

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.

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): 33.94 acres

22) Area to be disturbed for well pad only, less access road (acres): 11.40 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 cement. (L)

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake (L)

Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat (L)

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 400 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.

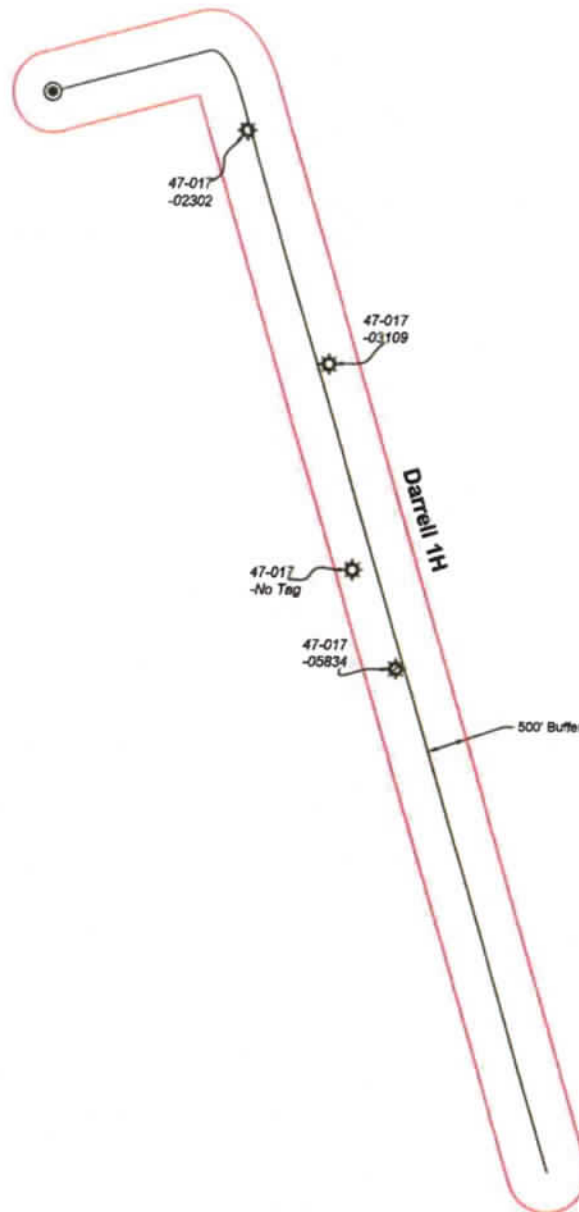
*Note: Attach additional sheets as needed.

LEGEND

- ⊙ Proposed gas well
- ⊛ Existing Well, as noted
- ⊛ Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone



Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: J. Smith
RESEARCH: J. Miller	PREPARED: October 25, 2023
SURVEYED: Dec. 2016	PROJECT NO: 149-30-N-23
FIELD CREW: C.L., K.M.	DRAWING NO: Darrell 1H AOR

Sheet 1 of 1

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DEC 18 2023

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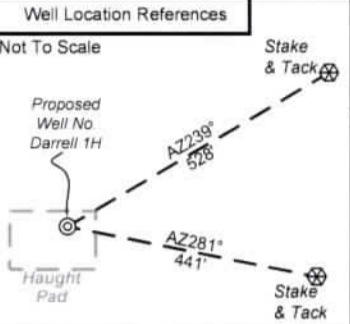
Scale: 1 Inch = 2000 feet

12/22/2023

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Productible Formation(s) not perf'd
47017023020000	O C HAUGHT LEASE	1	TARGA DEVELOPMENT INC	ROCKWELL PETROLEUM	5,374	4461 - 5250	Benson, Alexander	Weir
47017031090000	BARTON	1	ANTERO RESOURCES CORP	SWIFT ENERGY CO	5,841	5002 - 5498	Benson, Alexander, Elk	Weir
47017								Weir
47017058340000	BEE	1	BEE FAMILY ENTERPRISES INC	BEE FAMILY ENTERPRISES INC	2,473	1523 - 1647	1st Salt Sand, 2nd Salt Sand	Weir

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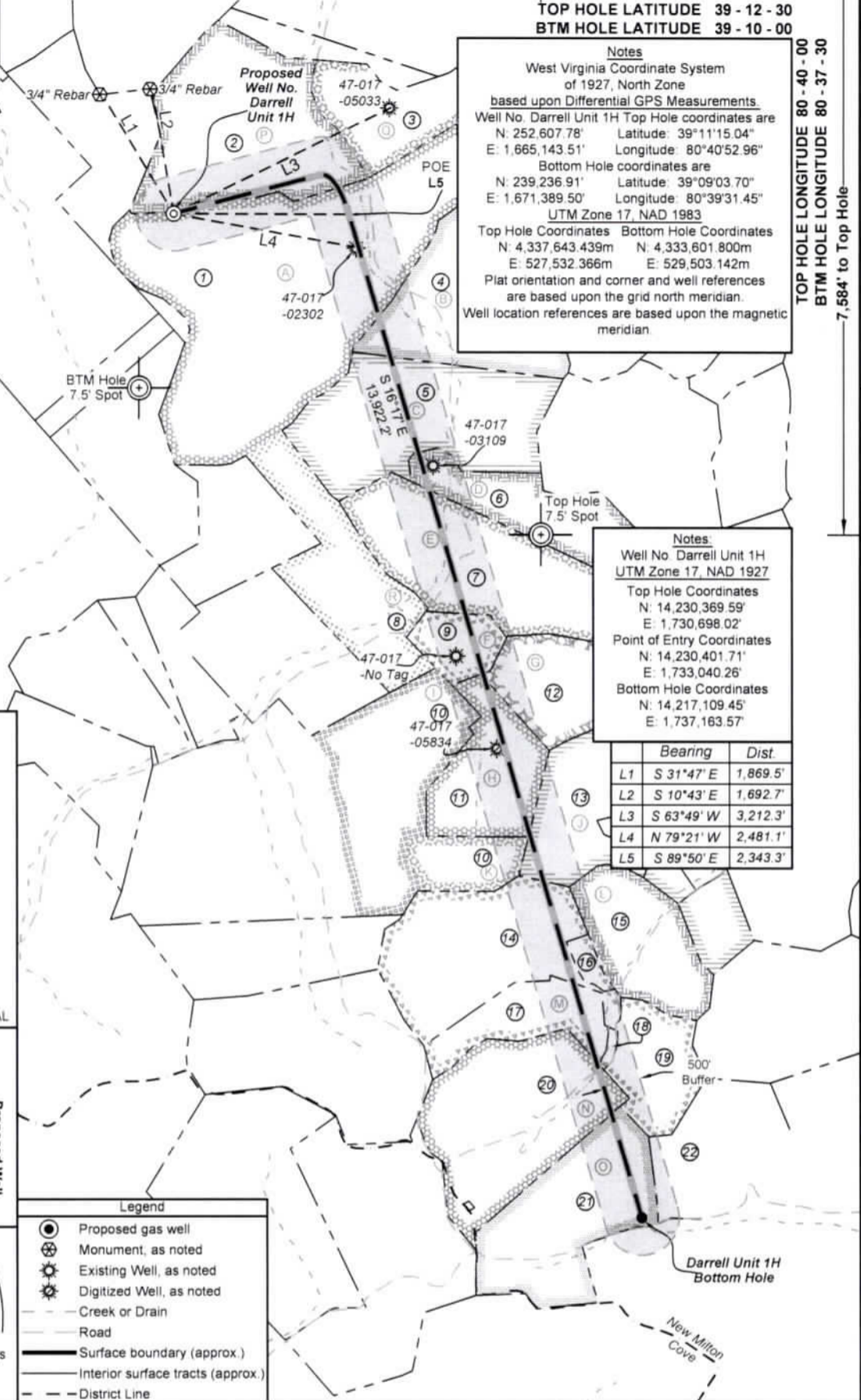
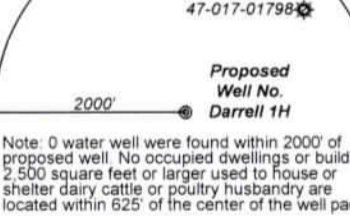
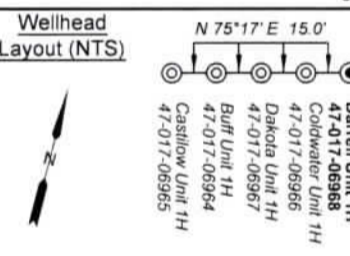
Antero Resources
Well No. Darrell 1H
BHL MOD
Antero Resources Corporation



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 prescribed by the Department of Environmental Protection.

Bradley D. Miller

Bradley D. Miller, P.S. 2167



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Darrell Unit 1H Top Hole coordinates are
 N: 252,607.78' Latitude: 39°11'15.04"
 E: 1,665,143.51' Longitude: 80°40'52.96"
 Bottom Hole coordinates are
 N: 239,236.91' Latitude: 39°09'03.70"
 E: 1,671,389.50' Longitude: 80°39'31.45"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,337,643.439m N: 4,333,601.800m
 E: 527,532.366m E: 529,503.142m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Notes
 Well No. Darrell Unit 1H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,230,369.59'
 E: 1,730,698.02'
 Point of Entry Coordinates
 N: 14,230,401.71'
 E: 1,733,040.26'
 Bottom Hole Coordinates
 N: 14,217,109.45'
 E: 1,737,163.57'

Bearing	Dist.
L1 S 31°47' E	1,869.5'
L2 S 10°43' E	1,692.7'
L3 S 63°49' W	3,212.3'
L4 N 79°21' W	2,481.1'
L5 S 89°50' E	2,343.3'

- Legend**
- Proposed gas well
 - ⊗ Monument, as noted
 - ⊙ Existing Well, as noted
 - ⊙ Digitized Well, as noted
 - Creek or Drain
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - - - District Line

FILE NO: 149-30-N-23
 DRAWING NO: Darrell 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: November 16 2023
 OPERATOR'S WELL NO. Darrell 1H
 API WELL NO
 47 - 017 - 06968
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: Proposed 1,194' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: New Milton
 DISTRICT: New Milton Susan Haught COUNTY: Doddridge
 SURFACE OWNER: Gido, et al ACREAGE: 264
 ROYALTY OWNER: O.C. Haught, et ux LEASE NO: ACREAGE: 264

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,700' TVD 25,000' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

TOP HOLE LONGITUDE 80 - 40 - 00
 BTM HOLE LONGITUDE 80 - 37 - 30
 7,584' to Top Hole
 5,697' to Bottom Hole

9,568' to Bottom Hole
 4,170' to Top Hole
 TOP HOLE LATITUDE 39 - 12 - 30
 BTM HOLE LATITUDE 39 - 10 - 00

12/22/2023



Leases	
A	O.C. Haught, et ux
B	Ruby Farr Maxwell, et ux
C	Haught Family Trust, et al
D	Haught Family Trust, et al
E	Susan B. Gum
F	Mary K. Post Revocable Trust - 2017, et al
G	Warren Bee, et ux
H	Warren Bee, et ux
I	O.C. Haught, et al
J	Louis E. Nicholson, et ux
K	HG Energy II Appalachia, LLC
L	Darrell E. Reed, et al
M	HG Energy II Appalachia, LLC
N	Trevor S. Gum
O	Michael Dale & Janet L. Nicholson
P	Haught Family Trust, et al
Q	Haught Family Trust, et al
R	Michael B. Duffelmeyer

ID	TM-Par	Owner	Bk/Pg	Acres
1	15-15	Susan Haught Gido, et al	WB62/407	264.00
2	15-6	Susan Haught Gido, et al	WB62/407	119.23
3	15-7	Susan Haught Gido, et al	WB62/407	53.00
4	16-10	Melvin L. Davis, Jr.	264/324	121.41
5	16-14	Melvin L. & Misty D. Davis	445/159	104.13
6	16-16	James Schray & Roma C. Kohn	175/280	52.65
7	16-15	Garry R. Norton	176/265	104.40
8	19-6	Garry R. Norton	176/265	68.49
9	20-1	Leonard Gandy	193/66	21.25
10	19-7	Susan Haught Gido, et al	WB62/407	269.50
11	20-3	Warren & Judy Bee	218/585	56.00
12	20-4	Clifford Devericks	241/611	39.00
13	20-9	Warren & Judy Bee	228/360	90.17
14	20-20.1	Harvey C. Woodruff, III	252/715	92.69
15	20-9.1	Darrell E. Reed & Darrell E. Reed, Jr.	214/337	55.78
16	20-20.2	Harvey C. Woodruff, III	257/292	5.00
17	20-20.3	Harvey C. Woodruff, III	257/292	33.73
18	20-20	Harvey C. Woodruff III	257/288	1.51
19	20-22	Shawn E. & David B. Smith	262/664	37.59
20	20-21	Trevor S. Gum	364/471	100.28
21	24-1	Michael & Janet Nicholson	472/87	83.74
22	24-2	Eleanor R. Nicholson	206/363	69.82

FILE NO: 149-30-N-23 DRAWING NO: Darrell 1H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV	<p>STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION</p>	DATE: November 16 2023 OPERATOR'S WELL NO. Darrell 1H API WELL NO 47 - 017 - 06968 STATE COUNTY PERMIT
WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> SHALLOW		
LOCATION: ELEVATION: Proposed 1,194' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: New Milton DISTRICT: New Milton Susan Haught COUNTY: Doddridge SURFACE OWNER: Gido, et al ACREAGE: 264 ROYALTY OWNER: O.C. Haught, et ux LEASE NO: ACREAGE: 264		
PROPOSED WORK: <input type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input checked="" type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,700' TVD 25,000' MD		
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis ADDRESS: 1615 Wynkoop Street 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>A: O.C. Haught, et ux Lease</u>			
O.C. Haught, et ux	Rockwell Petroleum Company	1/8	103/367
Rockwell Petroleum Company	Rockwell Resources LLC	Successor of Interest	260/429
Rockwell Resources LLC	Antero Resources Appalachian Corporation	Assignment	267/244
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523
<u>P: Haught Family Trust, et al</u>			
Haught Family Trust, et al	Bluestone Energy Partners	1/8	244/312
Bluestone Energy Partners	Antero Resources Bluestone, LLC	Merge	288/1
Antero Resources Bluestone, LLC	Antero Resources Corporation	Merged	WV SOS
<u>A: O.C. Haught, et ux Lease</u>			
O.C. Haught, et ux	Rockwell Petroleum Company	1/8	103/367
Rockwell Petroleum Company	Rockwell Resources LLC	Successor of Interest	260/429
Rockwell Resources LLC	Antero Resources Appalachian Corporation	Assignment	267/244
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523
<u>B: Ruby Farr Maxwell, et ux Lease</u>			
Ruby Farr Maxwell, et al	Clarence W. Mutschelknaus	1/8	119/242
Clarence W. Mutschelknaus	Antero Resources Appalachian Corporation	Assignment	293/602
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523
<u>C: Haught Family Trust, et al Lease</u>			
Haught Family Trust, et al	Bluestone Energy Partners	1/8	244/312
Bluestone Energy Partners	Antero Resources Bluestone LLC	Merge	288/1
Antero Resources Bluestone LLC	Antero Resources Corporation	Merged	WVSOS
<u>D: Haught Family Trust, et al Lease</u>			
Haught Family Trust, et al	Antero Resources Appalachian Corporation	1/8+	302/571
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523
<u>E: Susan B. Gum Lease</u>			
Susan B. Gum	Antero Resources Appalachian Corporation	1/8+	264/725
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/253
<u>F: Mary K. Post Revocable Trust – 2017, et al Lease</u>			
Mary K. Post Revocable Trust – 2017, et al	Antero Resources Corporation	1/8+	512/685
<u>G: Warren Bee, et ux Lease</u>			
Warren Bee, et ux	Antero Resources Corporation	1/8+	278/19
<u>H: Warren Bee, et ux Lease</u>			
Warren Bee, et ux	Antero Resources Corporation	1/8+	448/147

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>K: HG Energy II Appalachia, LLC Lease</u> HG Energy II Appalachia, LLC	Antero Resources Corporation	1/8+	512/384
<u>J: Louis E. Nicholson, et ux Lease</u> Louis E. Nicholson, et ux Rockwell Petroleum Company Rockwell Resources LLC Antero Resources Appalachian Corporation	Rockwell Petroleum Company Rockwell Resources LLC Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Successor of Interest Assignment Name Change	109/293 260/429 267/244 46/523
<u>M: HG Energy II Appalachia, LLC Lease</u> HG Energy II Appalachia, LLC	Antero Resources Corporation	1/8+	512/384
<u>N: Trever S. Gum Lease</u> Trever S. Gum	Antero Resources Corporation	1/8+	505/378

*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.

***Cotenancy 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

**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
O: Michael Dale & Janet L. Nicholson Lease:				
	Michael Dale & Janet L. Nicholson	Antero Resources Corporation	1/8+	515/330

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Office of Oil and Gas

DEC 11 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: Tim Rady
 Its: Senior Vice President of Land