



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, March 11, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for GIRARDI UNIT 1H
47-103-03634-00-00

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.



James A. Martin
Chief

Operator's Well Number: GIRARDI UNIT 1H
Farm Name: ANTERO RESOURCES CORPORATION
U.S. WELL NUMBER: 47-103-03634-00-00
Horizontal 6A New Drill
Date Modification Issued: 3/11/2024

Promoting a healthy environment.

03/15/2024

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

1) Well Operator: Antero Resources Corporation 494507062 103 - Wetzel Green Porter Falls 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Girardi Unit 1H MOD Well Pad Name: Fluharty Pad

3) Farm Name/Surface Owner: David L. Smith Public Road Access: Co Rd 28

4) Elevation, current ground: 1214' Elevation, proposed post-construction: 1181' - PROPOSED

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: 7300' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7300' TVD

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9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26400' MD

MAR 11 2024

11) Proposed Horizontal Leg Length: 16046' *Open to modification at a later date

WV Department of
Environmental Protection

12) Approximate Fresh Water Strata Depths: 307'

13) Method to Determine Fresh Water Depths: 47103012450000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 2289'

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: _____

Smiley
03/15/2024
3-7-24

WW-6B
(04/15)

API NO. 47- 103 - 03634
 OPERATOR WELL NO. Girardi Unit 1H MOD
 Well Pad Name: Fluharty 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	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	357'	357'	CTS, 372 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2900'	2900'	CTS, 1181 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	26400'	26400'	CTS, 5725 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							
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				RECEIVED Office of Oil and Gas
Sizes:	N/A				MAR 11 2024
Depths Set:	N/A				WV Department of Environmental Protection

[Signature]
 03/15/2024
 3-7-24

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): 45.48 acres

22) Area to be disturbed for well pad only, less access road (acres): 11.67 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.

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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

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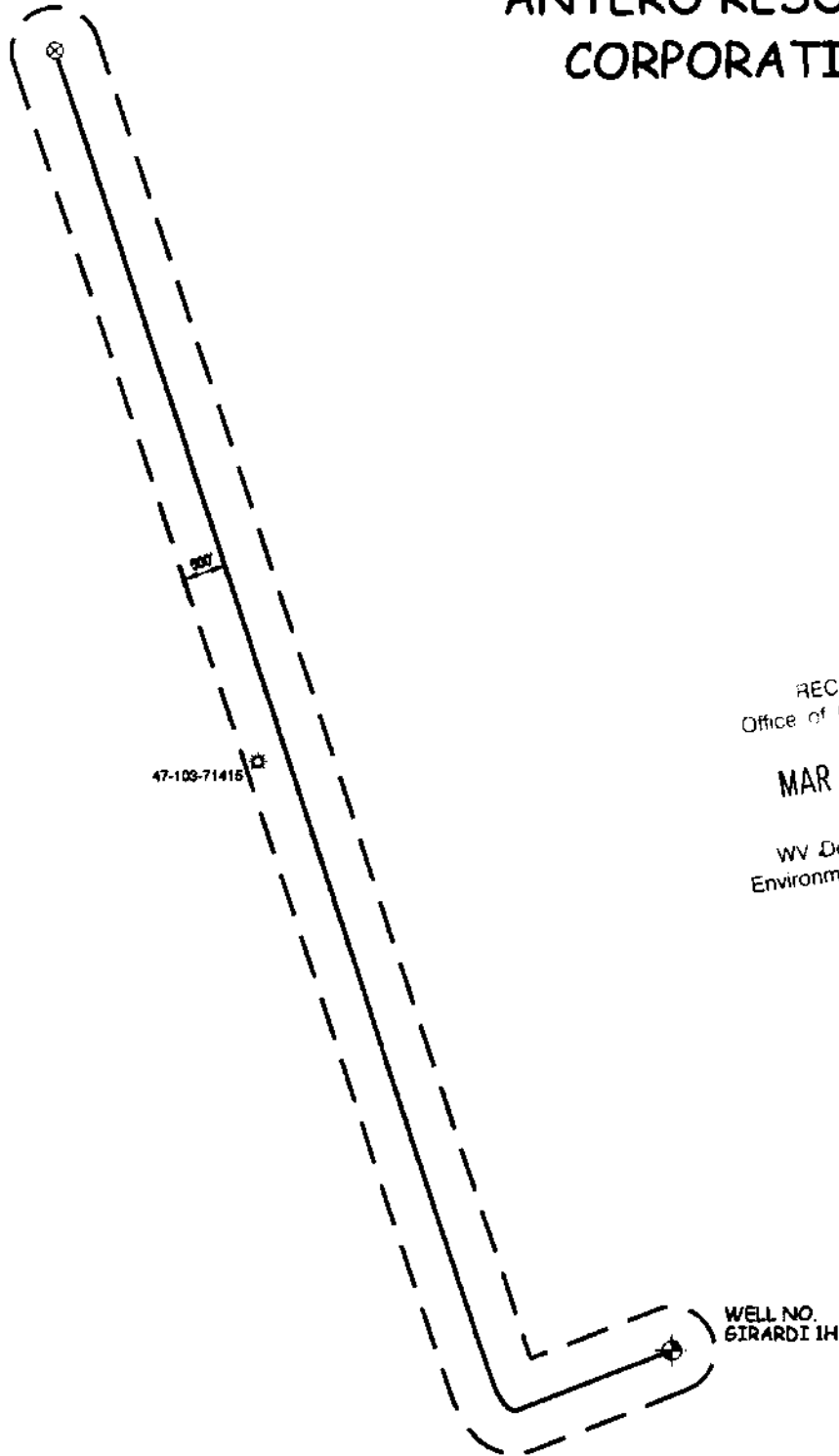
25) Proposed borehole conditioning procedures:

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.

47 10 30 36 34

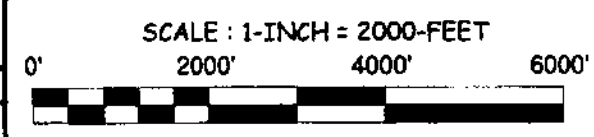
FLUHARTY PAD ANTERO RESOURCES CORPORATION



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MAR 11 2024
WV Department of Environmental Protection

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

JOB #: 23-011WA
FILE: GIRARDI1-HAOR.DWG



DATE: 01/09/24

DRAWN BY: D.R.R.

03/15/2024

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103714150000	T J J SNODGRASS	1	MCCORMICK O&G CORP	MCCORMICK O&G CORP	2,957			Weir, Benson, Alexander

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LATITUDE 39°35'00" 6,473'
 LATITUDE 39°37'30" 1,993' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Girardi #1H

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.

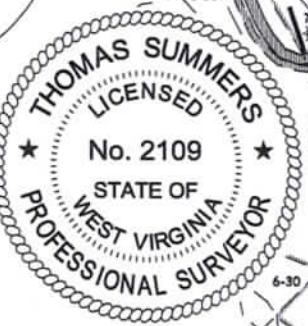
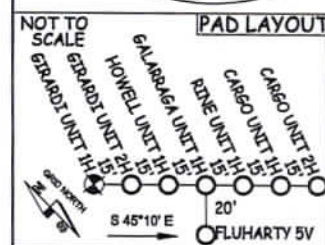
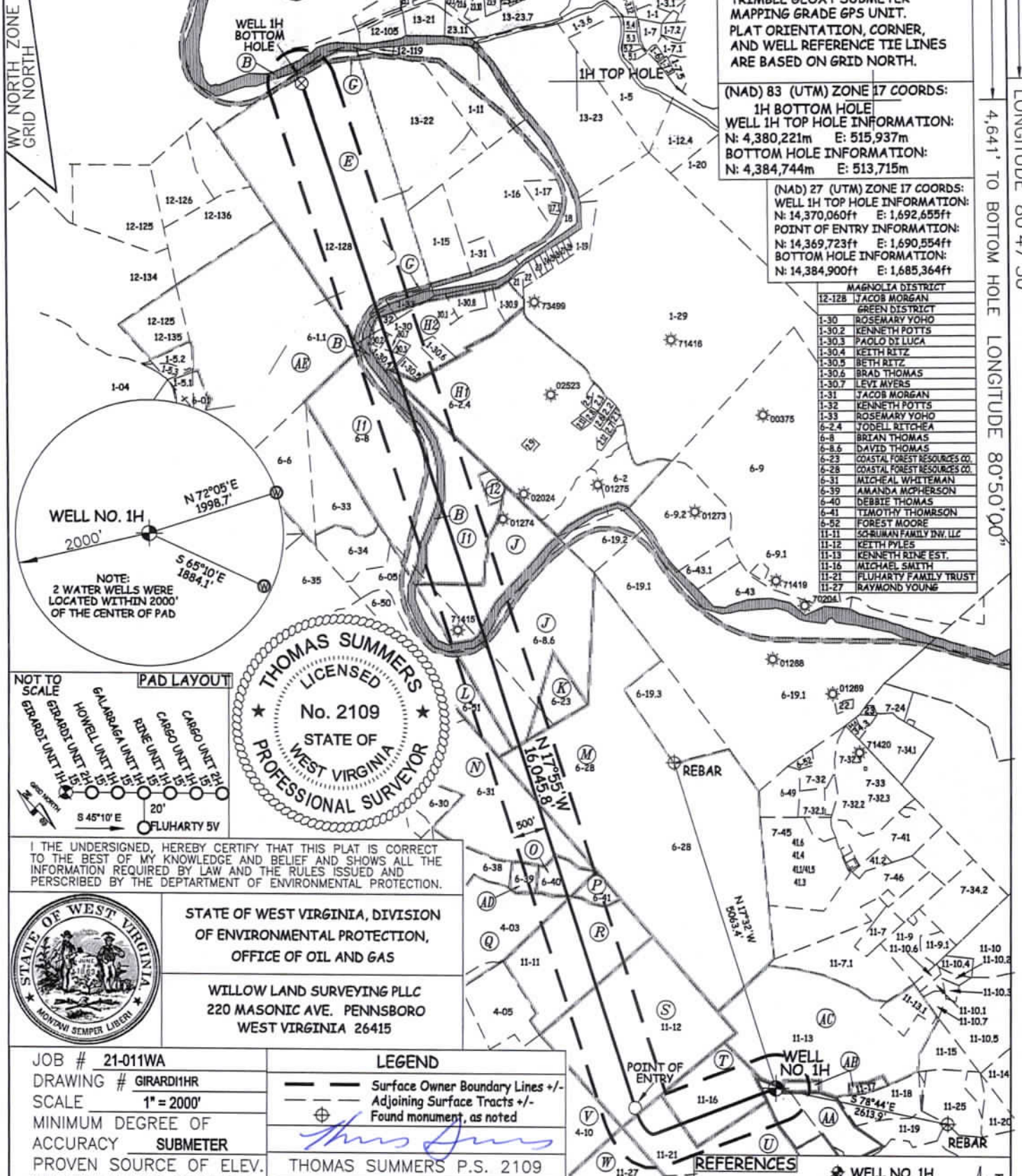
B	WYDNR	O	FIVE STAR RESOURCES
E	CHESAPEAKE APPALACHIA LLC.	P	TIMOTHY WAYNE THOMPSON
C	CSX TRANSPORTATION, INC.	Q	SPRING CREEK ENERGY PARTNERS
H1	J. WELLS KIRIN, ET AL	R	WPMC, LLC.
H2	BRIAN L. THOMAS AND TRACY L. THOMAS	S	ABRAHAM C. GAWTHROP AND MARY K. GAWTHROP
I1	BRIAN L. THOMAS AND TRACY L. THOMAS	T	DAVID LEE SMITH
I2	BRIAN L. THOMAS AND TRACY L. THOMAS	U	ROBERT HARRY MYERS, SR.
J	DAVID E. THOMAS ET UX	V	YINA M. SNYDER
K	COASTAL FOREST RESOURCES COMPANY	W	JUDITH JOHN B. WOOTEN
L	BOUNTY MINERALS, LLC	AA	DAVID LEE SMITH
M	COASTAL FOREST RESOURCES COMPANY	AB	MICHAEL EUGENE SMITH
N	MICHAEL SCOTT WHITEMAN	AC	JOHN MATHEW STALY
		AD	FIVE STAR RESOURCES
		AE	MD INVESTMENTS

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 392,962ft E: 1,629,423ft
 LAT: 39°34'17.28" LON: 80°48'52.66"
 BOTTOM HOLE INFORMATION:
 N: 407,927ft E: 1,622,379ft
 LAT: 39°36'44.14" LON: 80°50'25.47"
 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:
 1H BOTTOM HOLE
 WELL 1H TOP HOLE INFORMATION:
 N: 4,380,221m E: 515,937m
 BOTTOM HOLE INFORMATION:
 N: 4,384,744m E: 513,715m

(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,370,060ft E: 1,692,655ft
 POINT OF ENTRY INFORMATION:
 N: 14,369,723ft E: 1,690,554ft
 BOTTOM HOLE INFORMATION:
 N: 14,384,900ft E: 1,685,364ft

MAGNOLIA DISTRICT	
12-128	JACOB MORGAN
GREEN DISTRICT	
1-30	ROSEMARY YOHO
1-30.2	KENNETH POTTS
1-30.3	PAOLO DI LUCA
1-30.4	KEITH RITZ
1-30.5	BETH RITZ
1-30.6	BRAD THOMAS
1-30.7	LEVI MYERS
1-31	JACOB MORGAN
1-32	KENNETH POTTS
1-33	ROSEMARY YOHO
6-2.4	JOE RITCHEA
6-8	BRIAN THOMAS
6-8.6	DAVID THOMAS
6-23	COASTAL FOREST RESOURCES CO.
6-28	COASTAL FOREST RESOURCES CO.
6-31	MICHAEL WHITEMAN
6-39	AMANDA MCPHERSON
6-40	DEBBIE THOMAS
6-41	TIMOTHY THOMPSON
6-52	FOREST MOORE
11-11	SALAMAN FAMILY INV. LLC
11-12	KEITH PYLES
11-13	KENNETH RINE EST.
11-16	MICHAEL SMITH
11-21	FLUHARTY FAMILY TRUST
11-27	RAYMOND YOUNG



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 # 21-011WA
 DRAWING # GIRARD1HR
 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 02/22/24

OPERATOR'S WELL# GIRARDI UNIT #1H

47 - 103 - 03634
 STATE COUNTY PERMIT



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

LOCATION: ELEVATION PROPOSED -1,181' WATERSHED FISHING CREEK 1" = 200' STAKE/NAIL, SET
 QUADRANGLE PORTER FALLS 7.5' DISTRICT GREEN COUNTY WETZEL

SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 46.95 ACRES±
 OIL & GAS ROYALTY OWNER DAVID L. SMITH LEASE ACREAGE 67 ACRES±

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 PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,300' TVD 26,400' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS
 ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAK BLVD.
 DENVER, CO 80202 BRIDGEPORT, WV 26330

03/15/2024

4,323'
 4,641' TO BOTTOM HOLE
 LONGITUDE 80°47'30"
 LONGITUDE 80°50'00"
 COUNTY NAME PERMIT

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>AA: David Lee Smith Lease</u> David Lee Smith	Antero Resources Corporation	1/8+	273A/0442
<u>T: David Lee Smith Lease</u> David Lee Smith	Antero Resources Corporation	1/8+	273A/0442
<u>U: Robert Barry Myers, Sr. Lease</u> Robert Barry Myers, Sr. Gastar Exploration USA, Inc. Stone Energy Corporation EQT Production Company	Gastar Exploration USA, Inc. Stone Energy Corporation EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment	103A/0273 152A/0521 183A/0305 230A/0783
<u>S: Abram C. Gawthrop and Nancy K. Gawthrop Lease</u> Abram C. Gawthrop and Nancy K. Gawthrop	Antero Resources Corporation	1/8+	188A/0349
<u>R: WVMC, LLC. Lease</u> WVMC, LLC.	Antero Resources Corporation	1/8+	288A/0349
<u>Q: Spring Creek Energy Partners Lease</u> Spring Creek Energy Partners	Antero Resources Corporation	1/8+	0208/0732
<u>O: Five Star Resources Lease</u> Five Star Resources	Antero Resources Corporation	1/8+	329A/0248
<u>N: Michael Scott Whiteman Lease</u> Michael Scott Whiteman	Antero Resources Corporation	1/8+	287A/0210
<u>M: Coastal Forest Resources Company Lease</u> Coastal Forest Resources Company Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	1/8+ Assignment	092A/0906 177A/0451
<u>J: David R. Thomas Et Ux Lease</u> David R. Thomas Et Ux	Antero Resources Corporation	1/8+	335A/0920
<u>G: CSX Transportation, Inc. Lease</u> CSX Transportation, Inc.	Antero Resources Corporation	1/8+	275A/0895
<u>B: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	323A/0531
<u>J: David R. Thomas Et Ux Lease</u> David R. Thomas Et Ux	Antero Resources Corporation	1/8+	335A/0920
<u>I: Brian L. Thomas and Tracey L. Thomas Lease</u> Brian L. Thomas and Tracey L. Thomas	Antero Resources Corporation	1/8+	335A/0918
<u>B: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	323A/0531

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>I1: Brian L. Thomas and Tracey L. Thomas Lease</u> Brian L. Thomas and Tracey L. Thomas	Antero Resources Corporation	1/8+	335A/0918
<u>G: CSX Transportation, Inc. Lease</u> CSX Transportation, Inc.	Antero Resources Corporation	1/8+	275A/0895
<u>I1: Brian L. Thomas and Tracey L. Thomas Lease</u> Brian L. Thomas and Tracey L. Thomas	Antero Resources Corporation	1/8+	335A/0918
<u>B: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	323A/0531
<u>I1: Brian L. Thomas and Tracey L. Thomas Lease</u> Brian L. Thomas and Tracey L. Thomas	Antero Resources Corporation	1/8+	335A/0918
<u>H1: J. Wells Eakin, Et Al Lease</u> J. Wells Eakin, Et Al Sutton's Exploration & Production Company, LLC Gastar Exploration USA, Inc. Gastar Exploration Inc. TH Exploration II, LLC	Sutton Exploration & Production Company, LLC Gastar Exploration USA, Inc. Gastar Exploration Inc. TH Exploration II, LLC Antero Resources Corporation	1/8 Assignment Merger Assignment Assignment	090A/0234 102A/0524 0013/0270 173A/0431 270A/0067
<u>H2: J. Wells Eakin, Et Al Lease</u> J. Wells Eakin, Et Al Sutton's Exploration & Production Company, LLC Gastar Exploration USA, Inc. Gastar Exploration Inc. TH Exploration II, LLC	Sutton Exploration & Production Company, LLC Gastar Exploration USA, Inc. Gastar Exploration Inc. TH Exploration II, LLC Antero Resources Corporation	1/8 Assignment Merger Assignment Assignment	090A/0234 102A/0524 0013/0270 173A/0431 270A/0067
<u>B: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	323A/0531
<u>E: Chesapeake Appalachia LLC. Lease</u> Chesapeake Appalachia LLC. SWN Production Company LLC. Antero Exchange Properties LLC.	SWN Production Company LLC. Antero Exchange Properties LLC. Antero Resources Corporation	1/8 Assignment Merger	157A/0640 177A/0533 0013/0311
<u>G: CSX Transportation, Inc. Lease</u> CSX Transportation, Inc.	Antero Resources Corporation	1/8+	275A/0895

*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.

03/15/2024

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
E: Chesapeake Appalachia LLC, Lease				
	Chesapeake Appalachia LLC.	SWN Production Company LLC.	1/8	157A/0640
	SWN Production Company LLC.	Antero Exchange Properties LLC.	Assignment	177A/0533
	Antero Exchange Properties LLC.	Antero Resources Corporation	Merger	0013/0311

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**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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FEB 28 2024

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 Resources Corporation
 By: Tim Rady
 Its: Senior Vice President of Land