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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, November 10, 2021  
WELL WORK PERMIT  
Horizontal 6A / New Drill

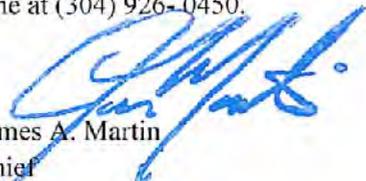
ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET  
DENVER, CO 80202

Re: Permit approval for MAXSON UNIT 2H  
47-085-10413-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless 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: MAXSON UNIT 2H  
Farm Name: DAVID W & DAVID MARTIN  
U.S. WELL NUMBER: 47-085-10413-00-00  
Horizontal 6A New Drill  
Date Issued: 11/10/2021

# PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

## CONDITIONS

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: \_\_\_\_\_

## PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov).

12/24/2021

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

1) Well Operator: Antero Resources Corporat 494507062 085-Ritchie Union Pullman/Oxford7.5  
Operator ID County District Quadrangle

2) Operator's Well Number: Maxson Unit 2H ✓ Well Pad Name: Weekley West Pad ✓

3) Farm Name/Surface Owner: Antero Resources Corporation ✓ Public Road Access: Co Rd 22/3

4) Elevation, current ground: 1,138' Elevation, proposed post-construction: 1,125'

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, 7,000 TVD, Anticipated Thickness 55', Associated Pressure 2,850#

8) Proposed Total Vertical Depth: 7,000' ✓

9) Formation at Total Vertical Depth: Marcellus ✓

10) Proposed Total Measured Depth: 9,400' ✓

11) Proposed Horizontal Leg Length: 4,016' ✓

12) Approximate Fresh Water Strata Depths: 258', 330', 478'

13) Method to Determine Fresh Water Depths: Reference wells 08508569, 0850858, 08508582 Depths have been adjusted according to surface elevations

14) Approximate Saltwater Depths: 1,015' (reference well 08503139), 1,976' (reference well 08507618)

15) Approximate Coal Seam Depths: 734' (reference well 08507618), 1,495' (reference well 08503139)

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: \_\_\_\_\_

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, 218 Cu. Ft.
Fresh Water	13-3/8	New	J-55	54.5#	528	528 ✓	CTS, 477 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#	9,400	9,400 ✓	CTS, 1997 Cu. Ft.
Tubing	2-3/8	New	N-80	4.7#			
Liners							

*Bryan Harris*  
10-13-21

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	~1.18
Fresh Water	13-3/8	17-1/2"	0.380"	2730	1000	Class A	~1.18
Coal	9-5/8	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2	8-3/8" & 8-1/2"	0.415"	12,630 ✓	9300		
Tubing	2-3/8	4.778"	0.190"	11,200		Low-H/POZ & T&H	H/POZ-1.44 & H-1.8
Liners							

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**PACKERS**

WV Department of  
Environmental Protection

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

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): 58.63

22) Area to be disturbed for well pad only, less access road (acres): 8.23

23) Describe centralizer placement for each casing string:

Conductor: No centralizers.  
Surface Casing: One centralizer 10' above the float shoe and one every 4th joint spaced up the hole to surface.  
Intermediate Casing: One centralizer above float joint, one centralizer 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.  
Surface Casing: Class A cement with 2-3% calcium chloride and 1/4 lb of flake.  
Intermediate Casing: Class A cement with 1/4 lb of flake, 5 gallons of clay treat.  
Production Casing 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 Casing Tail Cement: Class H + 45 PPS Calcium Carbonate + 1.0% Flake + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20.

25) Proposed borehole conditioning procedures:

\*Note: Attach additional sheets as needed.

WW-9  
(4/16)

API Number 47 - ~~000~~ <sup>085 10413</sup>  
Operator's Well No. Maxson Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494507062  
Watershed (HUC 10) South Fork Hughes Creek Quadrangle Pullman 7.5/Oxford 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No   
Will a pit be used? Yes  No

If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number                      \*UIC Permit # will be provided on Form WR-34 )
- Reuse (at API Number                      Future permitted well locations when applicable. API# will be provided on Form WR-34 )
- Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
- Other (Explain                      Northwestern Landfill Permit #SWF-1025/WV0109410)

Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Surface - Air/Freshwater, Intermediate - Dust/Silt Foam, Production - Water Based Mud or Synthetic Based Mud

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Please See Attachment

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Gretchen Kohler  
Company Official (Typed Name) Gretchen Kohler  
Company Official Title Director, Environmental and Regulatory Compliance

Subscribed and sworn before me this 5th day of October, 2021

Diane Blair Notary Public

My commission expires 27 Apr 2024



12/24/2021

4708510413

Form WW-9

Operator's Well No. Maxson Unit 2H

**Antero Resources Corporation**

Proposed Revegetation Treatment: Acres Disturbed 51.65 acres Prevegetation pH \_\_\_\_\_

Lime 2-4 Tons/acre or to correct to pH 6.5

Fertilizer type Hay or straw or Wood Fiber (will be used where needed)

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Access Road "A" (9.18 acres) + Access Road "B" (2.59 acres) + Staging Area (0.41) + Well Pad (13.44 acres) + Excess/Topsoil Material Stockpiles (26.03 acres) = 51.65 Acres

**Seed Mixtures**

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for additional seed type (Margery Pad Design)		See attached Table IV-4A for additional seed type (Margery Pad Design)	
*or type of grass seed requested by surface owner		*or type of grass seed requested by surface owner	

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan Harris

Comments: \_\_\_\_\_

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Environmental Protection

Title: Inspector Date: 10-13-21

Field Reviewed? ( ) Yes ( X ) No

12/24/2021

## ***Form WW-9 Additives Attachment***

### **SURFACE INTERVAL**

1. Fresh Water
2. Soap –Foamer AC
3. Air

### **INTERMEDIATE INTERVAL**

#### ***STIFF FOAM RECIPE:***

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 ( 11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard ( 9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

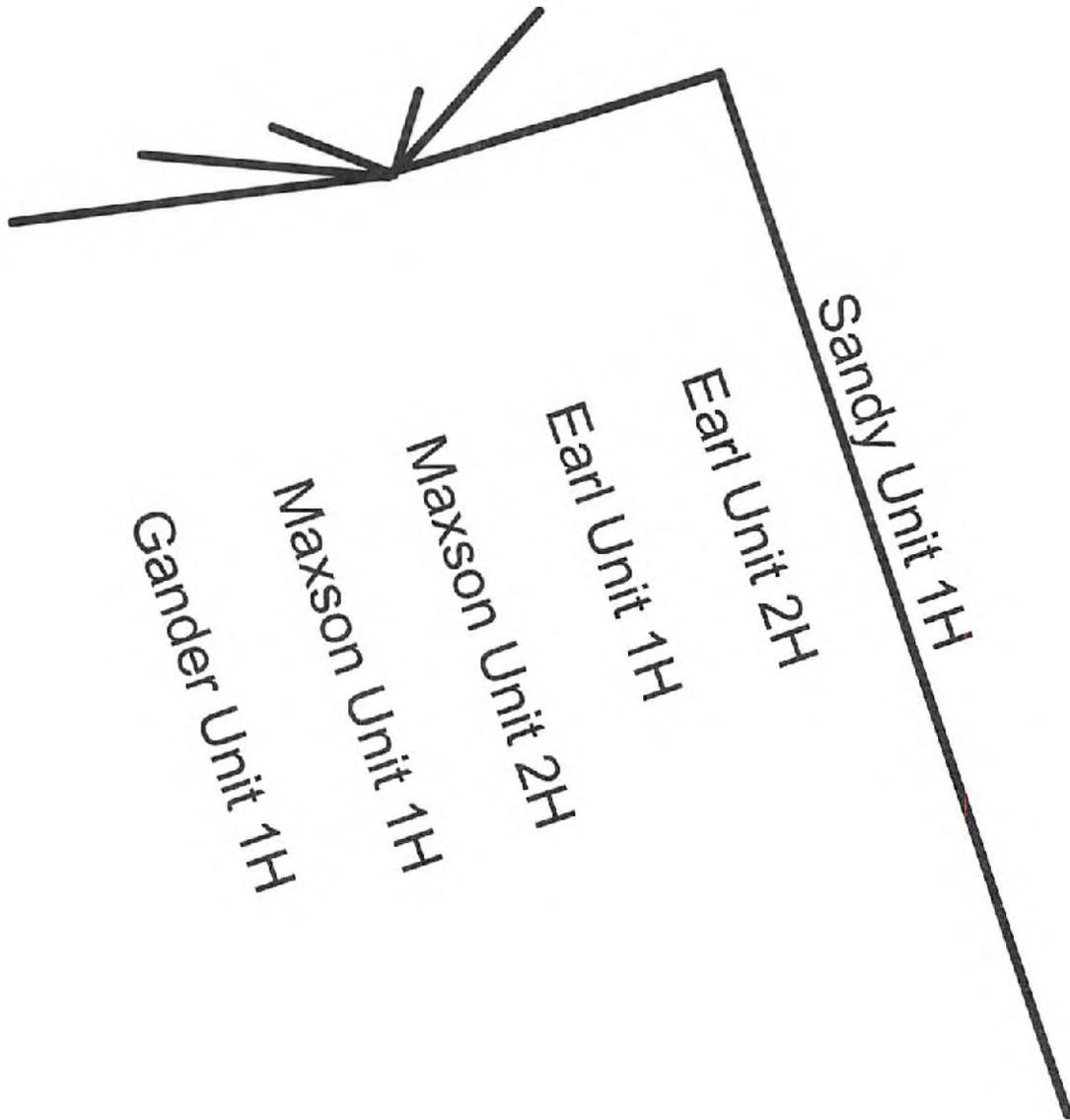
### **PRODUCTION INTERVAL**

1. Alpha 1655  
Salt Inhibitor
2. Mil-Carb  
Calcium Carbonate
3. Cottonseed Hulls  
Cellulose-Cottonseed Pellets – LCM
4. Mil-Seal  
Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM
5. Clay-Trol  
Amine Acid Complex – Shale Stabilizer
6. Xan-Plex  
Viscosifier For Water Based Muds
7. Mil-Pac (All Grades)  
Sodium Carboxymethylcellulose – Filtration Control Agent
8. New Drill  
Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer
9. Caustic Soda  
Sodium Hydroxide – Alkalinity Control
10. Mil-Lime  
Calcium Hydroxide – Lime
11. LD-9  
Polyether Polyol – Drilling Fluid Defoamer
12. Mil Mica  
Hydro-Biotite Mica – LCM

13. Escaid 110  
Drilling Fluid Solvent – Aliphatic Hydrocarbon
14. Ligco  
Highly Oxidized Leonardite – Filtration Control Agent
15. Super Sweep  
Polypropylene – Hole Cleaning Agent
16. Sulfatrol K  
Drilling Fluid Additive – Sulfonated Asphalt Residuum
17. Sodium Chloride, Anhydrous  
Inorganic Salt
18. D-D  
Drilling Detergent – Surfactant
19. Terra-Rate  
Organic Surfactant Blend
20. W.O. Defoam  
Alcohol-Based Defoamer
21. Perma-Lose HT  
Fluid Loss Reducer For Water-Based Muds
22. Xan-Plex D  
Polysaccharide Polymer – Drilling Fluid Viscosifier
23. Walnut Shells  
Ground Cellulosic Material – Ground Walnut Shells – LCM
24. Mil-Graphite  
Natural Graphite – LCM
25. Mil Bar  
Barite – Weighting Agent
26. X-Cide 102  
Biocide
27. Soda Ash  
Sodium Carbonate – Alkalinity Control Agent
28. Clay Trol  
Amine Acid complex – Shale Stabilizer
29. Sulfatrol  
Sulfonated Asphalt – Shale Control Additive
30. Xanvis  
Viscosifier For Water-Based Muds
31. Milstarch  
Starch – Fluid Loss Reducer For Water Based Muds
32. Mil-Lube  
Drilling Fluid Lubricant



# Weekley West - Lateral Diagram





# Weekley West Pad

 *Weekley West Unit 5H*

 *Sandy Unit 1H*

 *Earl Unit 2H*

 *Earl Unit 1H*

 *Maxson Unit 2H*

 *Maxson Unit 1H*

 *Gander Unit 1H*



Updated: 9/27/202

12/24/2021  
NOT TO SCALE



## Maxson Unit 2H



Antero Resources Corporation

Maxson Unit 2H - AOR



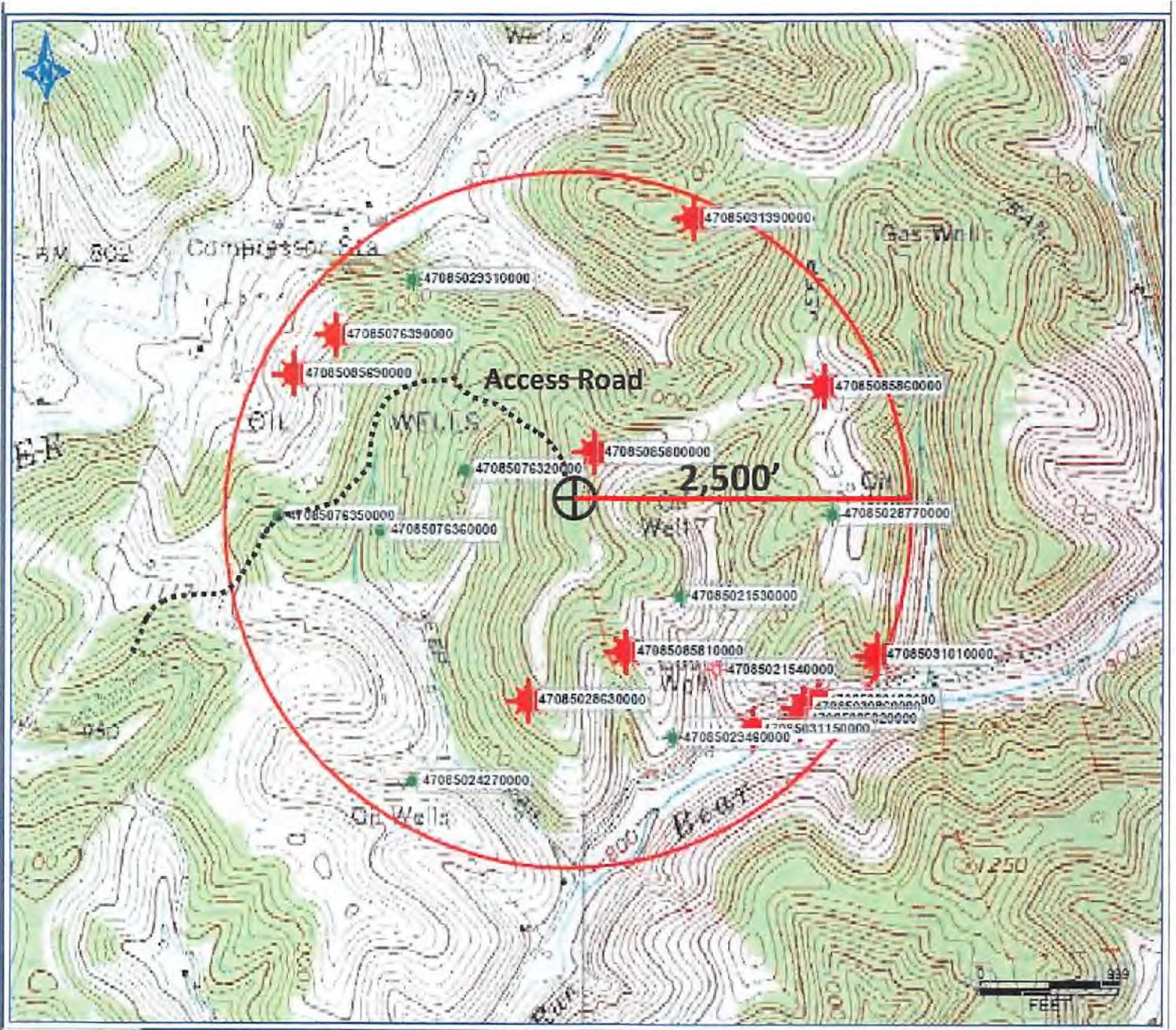
WELL SYMBOLS  
● Oil Well

September 13, 2021

12/24/2021

**MAXSON UNIT 2H**

<b>UWI (APINum)</b>	<b>Well Name</b>	<b>Well Number</b>	<b>Operator</b>	<b>Historical Operator</b>	<b>TD</b>	<b>Perforated Interval (shallowest, deepest)</b>	<b>Perforated Formation(s)</b>	<b>Producible Formation(s) not perf'd</b>
47085076320000	DOTSON T D	3	RITCHIE PET CORP	HOPE CONSTR & REFG	2,062	2017 - 2023	Big Injun	Alexander, Gordon, Berea



12/24/2021



**911 Address**  
**2635 Holbrook Road**  
**Pullman, WV 26451**

# Well Site Safety Plan

## Antero Resources

*Stephen Rami*  
10-13-21

**Well Name: Earl Unit 1H, Earl Unit 2H, Maxson Unit 1H,  
Maxson Unit 2H, Gander Unit 1H, and Sandy Unit 1H**

**Pad Location: WEEKLEY WEST PAD**

Ritchie County/Union District

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**GPS Coordinates:**

**Entrance - Lat 39.165921'/ Long -80.887167' (NAD83)**

**Pad Center - Lat 39.169704'/ Long -80.875163' (NAD83)**

WV Department of  
Environmental Protection

### Driving Directions:

From Pullman: Head northeast on Main Street toward Ash Hill Street for 0.3 miles. Turn right onto Oxford Road for 2.5 miles. Slight right onto White Oak Road for 1.9 miles. Turn right onto CO Rd 22/3 for 0.5 miles. Lease road will be on your left.

### Alternate Route:

From Auburn: Head west onto Auburn Road/Main Street for 30 ft. Turn right onto Toll Gate Road for 0.3 miles. Continue onto Left Fork Bone Creek for 1.0 mile. Slight left onto CO Rd 7/13 for 1.7 miles. Continue straight onto Summer Road Brushy Fork for 1.7 miles. Continue straight onto CO Rd 22/3 for 3.8 miles. Lease road will be on your right.

**EMERGENCY (24 HOUR) CONTACT 1-800-878-1373**



## ANTI-COLLISION

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### 1. Definitions

**Center to Center Distance (C-C):** The measured distance [ft] between two wellbore centers at a given point; measured along the axis of closest approach to the offset wellbore's center.

**Ellipse of Uncertainty:** A volume used to indicate the possible magnitude of a wellbore's position at a given depth based on the accuracy of the surveying tools used.

**Distance between Ellipsoids:** The measured distance [ft] between the edges of the generated ellipsoids of uncertainty for the reference well and offset well.

#### Separation Ratio (SR) Anti Collision Rules:

- $$SR = \frac{C-C \text{ Distance}}{C-C \text{ Distance} - \text{Distance between Ellipsoids}}$$
- A Separation Ratio is a purely mathematical concept that supposes that the closest distance between two ellipsoids of uncertainty whose major or minor axes are not parallel can be determined by ordinary Calculus. The SR is a dimensionless number that can be used to determine the possible separation between wellbores, while accounting for their ellipsoids of uncertainty and not just c-c distance.

Separation Ratio SR <sup>1</sup>	Planning	Drilling
Less than 1.0	Consideration on a well by well basis	STOP AND REVIEW for HSE Risk then Follow collision risk procedures
Greater than or equal to 1.0, less than 1.5	OK	Follow collision risk procedures and monitor AC while drilling
Greater than 1.5	OK	Drill ahead, follow collision risk procedures

## 2. Anti-Collision Guidelines

Collision risk procedures shall be followed whenever the SR is less than 1.5 anywhere along the well path to be drilled. A  $SR > 1.0$  indicates no overlap of the ellipsoids and, therefore, no chance that the wells may intersect.

- Prior to drilling, the drilling consultant and directional drillers must verify that the well slot coordinates and surface elevations are correct, that the bottom hole targets and intended well profiles are correct, and that all survey data used for proximity calculations are the definitive data available at the time.
- During drilling operations, the directional drilling provider shall provide Antero Resources with up-to date survey printouts and horizontal and vertical plots as required.
- The directional drilling provider shall provide 24-hr watch when drilling operations are conducted with SR less than 1.5.
- The bottom-hole assembly should be designed so as to leave the shortest possible distance between the primary directional survey instrument and the drill bit to improve steering effectiveness. If a gyro is to be used for orientations and surveys, leaving out the M/LWD tools may be considered.
- Magnetic-based survey tools are not to be considered as the primary data source when drilling close to an adjacent cased well-bore due to the potential for magnetic interference. Data analysis will indicate a magnetic interference problem in most instances.
- For all gyro surveys anti-collision reports and summary detailing C-C distances and SR to be provided at each survey station and survey frequency to be determined on the case by case basis.
- It is required that proximity calculations be performed and updated at each survey point and/or at least every 90ft dependent on adjacent well proximity as long as the SR are greater than 1.5. When using gyro surveys and when the SR is less than 1.5 the surveys should be conducted every 30ft

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## **Current Well is within the Critical Zone**

The following actions should be performed if the current well has entered into an area where the SR is less than 2.0:

- Proximity calculations and projections should be performed at each survey point. 30ft interval close surveys should be used if the SR is less than 1.5, but should be considered anytime during this phase until the current well exits the critical zone.
- Drilling should proceed with caution to negate any potential damage in the event of contact.





**911 Address**  
**2635 Holbrook Road**  
**Pullman, WV 26451**

# Well Site Safety Plan

## Antero Resources

*Suzanne Parris*  
10-13-21

**Well Name: Earl Unit 1H, Earl Unit 2H, Maxson Unit 1H,  
Maxson Unit 2H, Gander Unit 1H, and Sandy Unit 1H**

**Pad Location: WEEKLEY WEST PAD**

Ritchie County/Union District

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**GPS Coordinates:**

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**EMERGENCY (24 HOUR) CONTACT 1-800-878-1373**

LATITUDE 39°10'00"

LATITUDE 39°12'30" 109'

Antero Resources Corporation  
Well No. Maxson Unit 2H

NOTES:

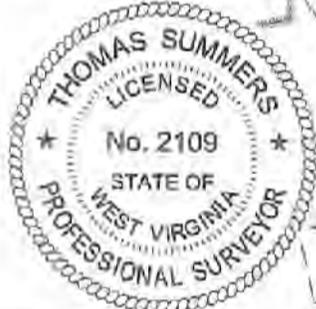
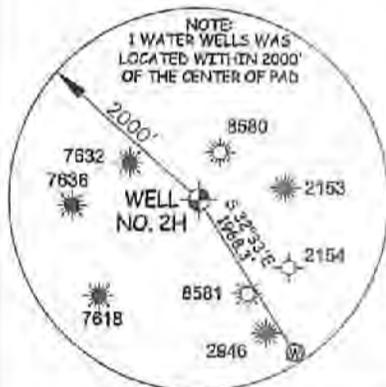
WELL 2H TOP HOLE INFORMATION:  
N: 246,901ft E: 1,610,058ft 2H BOTTOM  
LAT: 39°09'37.00" LON: 80°52'31.39" HOLE  
BOTTOM HOLE INFORMATION:  
N: 243,465ft E: 1,610,489ft  
LAT: 39°09'37.00" LON: 80°52'25.24"  
WEST VIRGINIA COORDINATE  
SYSTEM OF 1927 NORTH ZONE.  
ZONE WAS DERIVED FROM  
MEASUREMENTS 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 2H TOP HOLE INFORMATION:  
N: 4,335,625m E: 510,780m  
BOTTOM HOLE INFORMATION:  
N: 4,334,580m E: 510,929m

(NAD) 27 (UTM) ZONE 17 COORDS:  
WELL 2H TOP HOLE INFORMATION:  
N: 14,223,748ft E: 1,675,735ft  
POINT OF ENTRY INFORMATION:  
N: 14,224,121ft E: 1,674,930ft  
BOTTOM HOLE INFORMATION:  
N: 14,220,320ft E: 1,676,224ft

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.

NOTE:  
1 WATER WELLS WAS  
LOCATED WITHIN 2000'  
OF THE CENTER OF PAD



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.

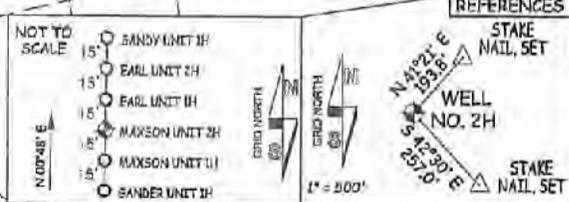


STATE OF WEST VIRGINIA, DIVISION  
OF ENVIRONMENTAL PROTECTION,  
OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC  
220 MASONIC AVE. PENNSBORO  
WEST VIRGINIA 26415

JOB # 15-058WA  
DRAWING # MAXSON2HR2S  
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 09/02/21  
OPERATOR'S WELL# MAXSON UNIT #2H



Union District - Ritchie County

14-19	David W. Weekley
20-3	David W. Weekley
20-4	David W. Weekley
20-7	David W. Weekley
20-8	David W. Weekley
20-9	Albin Gesek
20-10	David W. Weekley
20-11	Antero Resources Corp.
20-11.4	Bryan Ireland
20-12	Albin Gesek
20-12.1	Albin Gesek
20-13	David Pierce
20-13.1	Dallas Smith
20-17	Christopher Cross
20-18	Richard Pierce
20-19	Charles Adams
20-20	Mark Spiker
20-21	Charles Adams
20-3	Dallas Smith
21-5	James Beak
26-6	Mark Spiker
26-6.1	Earl Fleisher
26-7	Donald Sheets
26-8	Mark Spiker
26-9	Donald Sheets
26-14	Mark Spiker
26-14.1	Mark Spiker
26-15	Mark Spiker
26-16	South Fork Sportsmen Assn, Inc.
26-16.1	South Fork Sportsmen Assn, Inc.
26-17	South Fork Sportsmen Assn, Inc.
26-26	Marvin Brlesay
26-27	South Fork Sportsmen Assn, Inc.
26-30	South Fork Sportsmen Assn, Inc.
27-1	Linda Jennings
27-1.1	Linda Jennings
27-2	Randall Hess
27-3	Steven Lusk
27-3.1	Kent Grotjan
27-3.5	Joshua Friedman
27-3.6	Lillian Martin
27-11	Miles Ball
27-12	Randall Pierce
27-12.1	Randall Pierce
27-16	Clerence Bush
27-20	South Fork Sportsmen Assn, Inc.
27-21	Maxson Land LLC
27-22	Clerence Bush
32-1	Stanley Echard
32-1.3	Stanley Echard
32-2	Harold Pierce

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  47 - 085 - 10413 H6A  
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  STATE COUNTY PERMIT  
LOCATION: ELEVATION 1,138'-ORIGINAL 1,125'-PROPOSED WATERSHED SOUTH FORK HUGHES RIVER  
QUADRANGLE TH-PULLMAN 7.5' BH- OXFORD 7.5' DISTRICT UNION COUNTY RITCHIE  
SURFACE OWNER DAVID W. & DAVID MARTIN WEEKLEY ACREAGE 39.87 ACRES +/- 12/24/2021  
OIL & GAS ROYALTY OWNER T.D. DOTSON ET UX; JOHN M. DEBRULAR ET UX; BRADFORD SPIKER ET UX; LEASE ACREAGE 39.87 AC. ±; 154AC. ±; 52 AC. ±;

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY)  PLUG & ABANDON  CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 9,400' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313

2,327' 10" BOTTOM HOLE LONGITUDE 80°50'00"

14,073'

LONGITUDE 80°52'30"

COUNTY NAME

PERMIT

Antero Resources Corporation Well No. Maxson Unit 2H

NOTES:

WELL 2H TOP HOLE INFORMATION: N: 246,901ft E: 1,610,058ft 2H BOTTOM... BOTTOM HOLE INFORMATION: N: 243,455ft E: 1,610,489ft... WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE...

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 4,335,625m E: 510,780m... BOTTOM HOLE INFORMATION: N: 4,334,580m E: 510,929m

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 14,223,748ft E: 1,675,735ft... POINT OF ENTRY INFORMATION: N: 14,224,121ft E: 1,674,930ft... BOTTOM HOLE INFORMATION: N: 14,220,320ft E: 1,676,224ft

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.

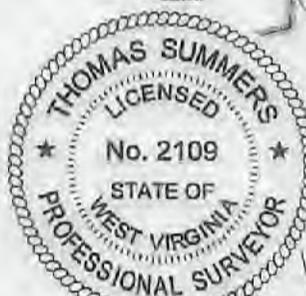


Table listing Union District - Ritchie County with well numbers and names: 14-19 David W. Weekley, 20-3 David W. Weekley, 20-4 David W. Weekley, 20-7 David W. Weekley, 20-8 David W. Weekley, 20-9 Albin Gesek, 20-10 David W. Weekley, 20-11L Antero Resources Corp., 20-11.4 Bryon Ireland, 20-12 Albin Gesek, 20-12.1 Albin Gesek, 20-15 David Pierce, 20-13.1 Dallas Smith, 20-17 Christopher Cress, 20-18 Richard Pierce, 20-19 Charles Adams, 20-20 Mark Spiker, 20-21 Charles Adams, 21-3 Dallas Smith, 21-5 James Besk, 21-6 Mark Spiker, 21-6.1 Earl Fleisher, 21-7 Donald Sheets, 21-8 Mark Spiker, 21-9 Donald Sheets, 21-14 Mark Spiker, 21-15 Mark Spiker, 21-16 Mark Spiker, 21-16 South Fork Spartans Assn. Inc., 21-16.1 South Fork Spartans Assn. Inc., 21-17 South Fork Spartans Assn. Inc., 21-20 Marvin Brlesoy, 21-21 South Fork Spartans Assn. Inc., 21-20 South Fork Spartans Assn. Inc., 21-21 Linda Jennings, 21-21 Linda Jennings, 21-2 Randall Hess, 21-3 Steven Lush, 21-3.4 Kent Grafton, 21-3.5 Joshua Friedman, 21-3.6 Lillian Martin, 21-11 Miles Ball, 21-15 Randall Pierce, 21-15.1 Randall Pierce, 21-16 Clarence Bush, 21-20 South Fork Spartans Assn. Inc., 21-21 Maxson Land LLC, 21-22 Clarence Bush, 21-1 Stanley Echard, 21-1.3 Stanley Echard, 21-2 Harold Pierce.

2,327' TO BOTTOM HOLE LONGITUDE 80°50'00"

14,073' LONGITUDE 80°52'30"

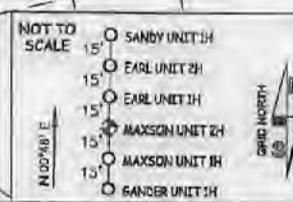
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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 # 15-059WA DRAWING # MAXSON2HR2S 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 09/02/21 OPERATOR'S WELL # MAXSON UNIT #2H



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 085 10413,64 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,138'-ORIGINAL 1,125'-PROPOSED WATERSHED SOUTH FORK HUGHES RIVER QUADRANGLE TH - PULLMAN 7.5 BH - OXFORD 7.5 DISTRICT UNION COUNTY RITCHIE SURFACE OWNER DAVID W. & DAVID MARTIN WEEKLEY ACREAGE 39.87 ACRES +/- 12/24/2021 OIL & GAS ROYALTY OWNER T. D. DOTSON ET UX; JOHN M. DEBRULAR ET UX; BRADFORD SPIKER ET UX; LEASE ACREAGE 39.87 AC +/- 154 AC +/- 52 AC +/-

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 9,400' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD DENVER, CO 80202 CHARLESTON, WV 25313

WW-6A1

Operator's Well Number Maxson Unit 2H

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
<b><u>T.D. Dotson, et ux Lease</u></b>			
T.D. Dotson, et ux	J.T. Carter	1/8	0011/0297
J.T. Carter	The Carter Oil Company	Assignment	0011/0528
The Carter Oil Company	Hope Construction and Refining Company	Assignment	0052/0194
Hope Construction and Refining Company	Hope Natural Gas Company	Merger	0111/0520
Hope Natural Gas Company	Consolidation Gas Supply Corporation	Conveyance	0151/0436
Consolidation Gas Supply Corporation	Consolidation Gas Transmission Corporation	Assignment	0169/0756
Consolidation Gas Transmission Corporation	CNG Development Company	Assignment	0176/0601
CNG Development Company	CNG Producing Company	Name Change	WVSOS
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	0058/0366
Dominion Exploration & Production, Inc.	Dominion Transmission, Inc.	Assignment	0251/0621
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC	Assignment	0251/0648
CONSOL Energy Holdings, LLC	Consol Gas Company	Merger	0006/0576
Consol Gas Company	CNX Gas Company, LLC	Merger	0006/0634
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0269/0429
<b><u>John M. Debrular et al Lease</u></b>			
John M. Debrular and Susan J. Debrular his wife	W.W. Water	1/8	0011/0321
W.W. Water	M.G. Zinn	Assignment	0012/0370
M.G. Zinn	The Carter Oil Company	Assignment	0012/0373
The Carter Oil Company	Hope Construction and Refining Company	Assignment	0052/0194
Hope Construction and Refining Company	Hope Natural Gas Company	Assignment	0111/0520
Hope Natural Gas Company	Consolidation Gas Supply Corporation	Conveyance	0151/0436
Consolidation Gas Supply Corporation	Consolidation Gas Transmission Corporation	Conveyance	0169/0756
Consolidation Gas Transmission Corporation	CNG Development Company	Assignment	0176/0601
CNG Development Company	CNG Producing Company	Assignment	0058/0366
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	0058/0366
Dominion Exploration & Production, Inc.	Dominion Transmission, Inc.	Assignment	0251/0621
Dominion Transmission, Inc.	Consol Energy Holdings, LLC XVI	Assignment	0251/0648
Consol Energy Holdings, LLC XVI	Consol Gas Company	Merger	0006/0576
Consol Gas Company	CNX Gas Company, LLC	Name Change	0006/0634
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0269/0429

12/24/2021

WW-6A1  
(5/13)

Operator's Well No. Maxson Unit 2H

**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
Bradford Spiker et ux	Bradford Spiker and Alice W Spiker husband and wife	Alton Skinner	1/8	0132/0392
	Alton Skinner	Alton L. Skinner II, Crystal G. Skinner Desari S. Garrett	Assignment	0216/0391
	Alton L. Skinner II, Crystal G. Skinner	DC Petroleum, Inc	Assignment	0247/0245
	Desari S. Garrett	Antero Resources Appalachian Corporation	Assignment	0254/0789
	DC Petroleum, Inc	Antero Resources Corporation	Name Change	0015/0705
	Antero Resources Appalachian Corporation			

\*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.

**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: VP of Land



Antero Resources  
1615 Wynkoop St.  
Denver, CO 80202  
Office: 303.357.7310  
Fax: 303.357.7315

October 1, 2021

West Virginia Department of Environmental Protection  
Chief, Office of Oil and Gas  
Attn: Mr. James Martin  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

RE: Maxson Unit 2H  
Quadrangle: Pullman 7.5'/Oxford 7.5'  
Ritchie County/Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Maxson Unit 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Maxson Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tyler Skavdahl".

Tyler Skavdahl

Landman

12/24/2021

WW-6AC  
(1/12)

RECEIVED  
Office of Oil and Gas

OCT 08 2021

4708510413

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE CERTIFICATION

Date of Notice Certification: 09/29/2021

API No. 47- \_\_\_\_\_  
Operator's Well No. Maxson Unit 2H  
Well Pad Name: Weekley West Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>510,780m</u>
County: <u>Ritchie</u>		Northing: <u>4,355,625m</u>
District: <u>Union</u>	Public Road Access: <u>CO 22/3</u>	
Quadrangle: <u>Pullman 7.5/Oxford 7.5'</u>	Generally used farm name: <u>David Martin Weekley &amp; David W. Weekley</u>	
Watershed: <u>South Fork Hughes River</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  *PLEASE CHECK ALL THAT APPLY		<b>OOG OFFICE USE ONLY</b>
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<input type="checkbox"/> RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

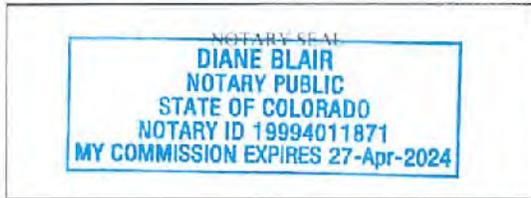
12/24/2021

WW-6AC  
(1/12)

**Certification of Notice is hereby given:**

THEREFORE, I \_\_\_\_\_, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	<u>Antero Resources Corporation</u>	Address:	<u>1615 Wynkoop Street</u>
By:	<u>Diana Hoff <i>Diana O. Hoff</i></u>		<u>Denver, CO 80202</u>
Its:	<u>Sr. VP of Operations</u>	Facsimile:	<u>303-357-7315</u>
Telephone:	<u>304-842-4153</u>	Email:	<u>mhamsher@anteroresources.com</u>



Subscribed and sworn before me this 5<sup>th</sup> day of October 21.

Diane Blair

Notary Public

My Commission Expires 27 Apr 2024

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas  
OCT 08 2021  
WV Department of  
Environmental Protection

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 10/04/2021 **Date Permit Application Filed:** \_\_\_\_\_

**Notice of:**

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)  
Name: David Martin Weekley & David W. Weekley ✓  
Address: 987 Middle Island Creek Road  
St. Marys, WV 25170

Name: David Pierce ✓  
Address: 715 Pleasant Hollow Road  
West Union, WV 26456

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: See Attachment  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: No Declarations on Record with County  
Address: \_\_\_\_\_

COAL OPERATOR  
Name: No Declarations on Record with County  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Elmer W. Pierce ✓  
Address: Rt 1, Box 118  
West Union, WV 26456

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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WW-6A  
(8-13)

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API NO. 47- 085- 10413  
OPERATOR WELL NO. Maxson Unit 2H  
Well Pad Name: Weekley West Pad

WV Department of  
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**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

**This Notice Shall Include:**

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

12/24/2021

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

**Water Well Testing:**

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

**Water Testing Laboratories:**

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

**Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:**

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

**Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

12/24/2021

**Time Limits and Methods for Filing Comments.**

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

**Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

**Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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12/24/2021

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(8-13)

API NO. 47- 085 10413  
OPERATOR WELL NO. Maxson Unit 2H  
Well Pad Name: Weekley West Pad

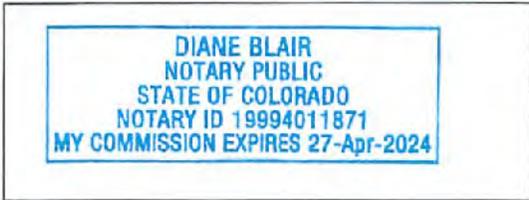
**Notice is hereby given by:**

Well Operator: Antero Resources Corporation  
Telephone: 304-842-4153 Diana O. Hoff  
Email: mhamsher@anteroresources.com

Address: 1615 Wynkoop Street  
Denver, CO 80202  
Facsimile: 303-357-7315

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 5<sup>th</sup> day of October 21.

Diane Blair Notary Public

My Commission Expires 27 Apr 2024

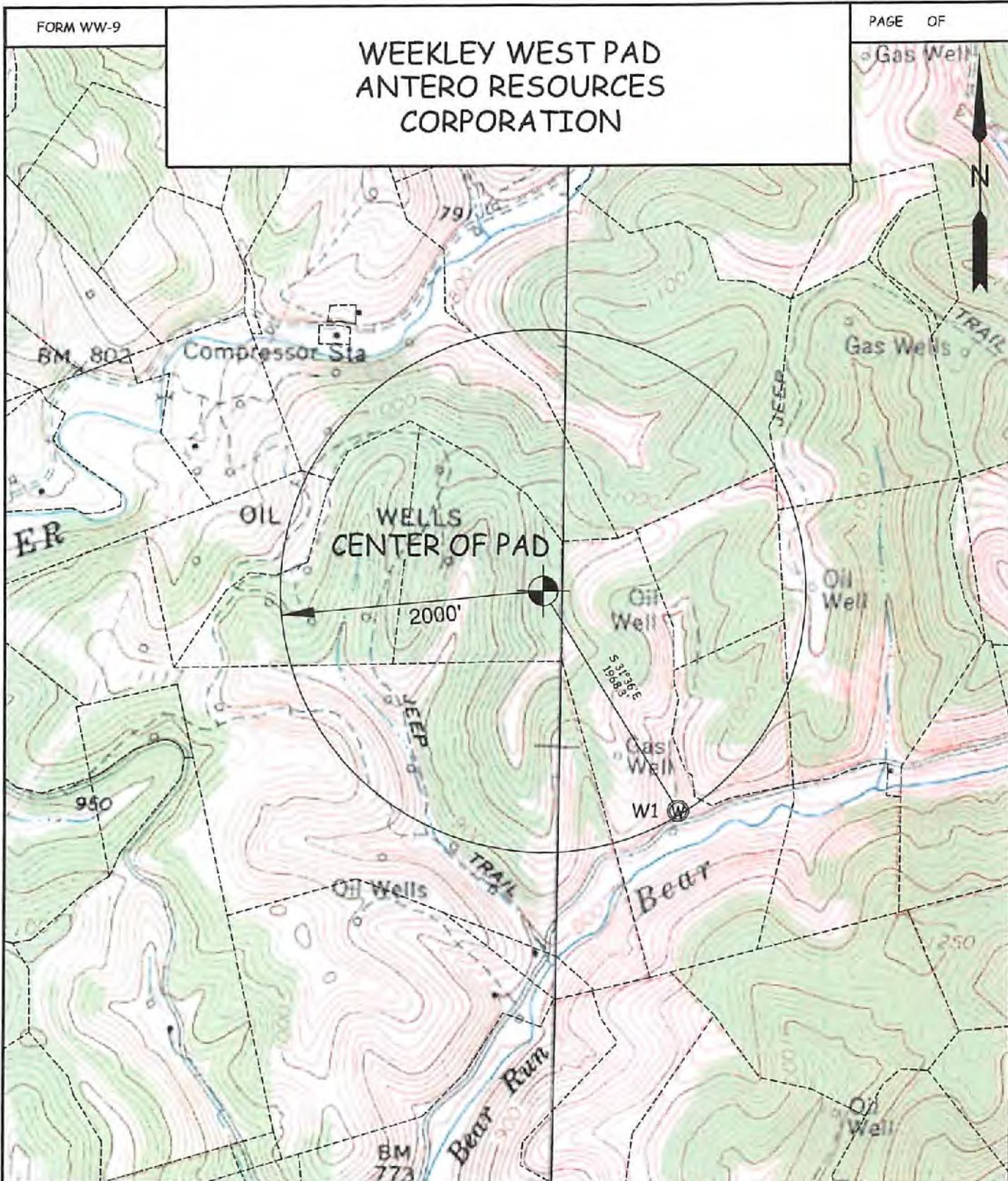
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12/24/2021

# WEEKLEY WEST PAD ANTERO RESOURCES CORPORATION



W1	WELL SURFACE OWNER ELMER W. PIERCE	ADDRESS RT. 1 BOX 118, WEST UNION, WV 26456	WELL LATITUDE 39°09'55.34"	WELL LONGITUDE 80°52'18.06"
----	---------------------------------------	--	-------------------------------	--------------------------------

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

TOPO SECTION(S) OF :  
PULLMAN 7.5' QUAD. &  
OXFORD 7.5' QUAD.

SCALE : 1-INCH = 1000-FEET

0'      1000'      2000'      3000'

DATE: 04/12/21      DRAWN BY: D.L.P.

JOB #: 12-063WA  
FILE: WEEKLEYWESTSHWATERMAP

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF ENTRY FOR PLAT SURVEY**

**Notice Time Requirement:** Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

**Date of Notice:** 11/24/2015      **Date of Planned Entry:** \*\*12/1/2015

\*Please note that this is an estimated date. Antero may begin surveying seven (7) days but no more than forty-five (45) after your receipt of this notice (whichever comes first).

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

- PERSONAL SERVICE       REGISTERED MAIL       METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: PLEASE SEE ATTACHMENT  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: NO DECLARATIONS ON RECORD WITH COUNTY  
Address: \_\_\_\_\_

MINERAL OWNER(s)

Name: PLEASE SEE ATTACHMENT  
Address: \_\_\_\_\_

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia  
County: Ritchie  
District: Union  
Quadrangle: Pullman 7.5'

Approx. Latitude & Longitude: Approx. 39.169759, -80.875204  
Public Road Access: CR 22/3  
Watershed: South Fork Hughes River  
Generally used farm name: Weekley, David W. & David Marlin

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Antero Resources Corporation  
Telephone: (303) 357-7310  
Email: asteelle@anteroresources.com

Address: 1615 Wynkoop Street  
Denver, CO 80202  
Facsimile: (303) 357-7316

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

Tax Map 20 Parcel 10  
Tax 12/24/2021  
Tax Map 20 Parcel 13

**WW-6A3 Notice of Entry For Plat Survey Attachment:****Surface Owners:**Tax Parcel ID: 20-10

**Owner:** David Martin & David W. Weekley ✓  
**Address:** 1143 Middle Island Creek Rd.  
 St. Mary's, WV 26170

**Surface Owners:**Tax Parcel ID: 20-12

**Owner:** Carol A. Myers & Albina A. Gesck ✓  
**Address:** 441 Pleasant Hollow Rd.  
 West Union, WV 26456

**Owner:** Carol A. Myers & Albina A. Gesck ✓  
 (2<sup>nd</sup> Address)  
**Address:** RR 1 Box 122  
 West Union, WV 26456

**Surface Owners:**Tax Parcel ID: 20-13

**Owner:** Elmer Woodyard Pierce ✓  
**Address:** 1634 Pleasant Hollow Rd.  
 West Union, WV 26456

**Owner:** Elmer Woodyard Pierce (2<sup>nd</sup> Address) ✓  
**Address:** RR 1 Box 118  
 West Union, WV 26456

**Mineral Owners:**Tax Parcel ID: 20-10

**Owner:** David Martin & David W. Weekley ✓  
**Address:** 1143 Middle Island Creek Rd.  
 St. Mary's, WV 26170

**Owner:** Barbara Keating ✓  
**Address:** 60 Short Beach Rd.  
 East Haven, CT 06512

**Owner:** Betty D. Prunty ✓  
**Address:** 208 Walnut St.  
 Hamlin, WV 25523

**Mineral Owners:**Tax Parcel ID: 10-12

**Owner:** Mable Lenore Randolph ✓  
**Address:** Rt. 2 Box 289  
 Lost Creek, WV 26385

**Owner:** Roberta N. Finch ✓  
**Address:** 1604 27<sup>th</sup> St.  
 Parkersburg, WV 26101

**Owner:** Lewis W. DeBrular ✓  
**Address:** Rt. 4 Box 454  
 Weston, WV 26452

**Owner:** Robert L. DeBrular ✓  
**Address:** 862 Cherokee Trail  
 Willoughby, OH 44094

**Owner:** Don D. DeBrular ✓  
**Address:** 5306 Pamela Circle  
 Charleston, WV 25313

**Owner:** Eileen Myra Barker ✓  
**Address:** PO Box 13  
 Pennsboro, WV 26415

**Owner:** Irene Teresa Cunningham ✓  
**Address:** 363 Cunningham Hl.  
 Harrisville, WV 26362

**Owner:** James L. DeBrular ✓  
**Address:** 1601 Washington Ave.  
 Parkersburg, WV 26101

**Owner:** Helene Y. Dodd ✓  
**Address:** 511 1<sup>st</sup> St.  
 Pennsboro, WV 26415

**Owner:** Key Oil Company ✓  
**Address:** 22 Garton Plaza  
 Weston, WV 26452

**Owner:** Franklin L. Butler ✓  
**Address:** 22 Garton Plaza  
 Weston, WV 26452

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**Mineral Owners:**

Tax Parcel ID: 20-13

**Owner:** Alfred Andrew Smith (Subject to the Life Estate of Leona May McVay) ✓  
**Address:** 1266 Kay Dr.  
Mason, OH 45040

**Owner:** Daniel Lee Ashley, Jr. & Dawn Michelle  
**Address:** 7771 High Mill Ave NW ✓  
Canal Fulton, OH 44614

**Owner:** Dallas Franklin Smith  
**Address:** RR 2 Box 72 ✓  
Harrisville, WV 26362

**Owner:** Larry T. Hardman ✓  
**Address:** 1015 Buffaloville Rd.  
Santa Claus, IN 47579

**Owner:** Jacob Andrew Pierce ✓  
**Address:** 7281 E Dry Branch Rd.  
Milltonw, IN 47145

**Owner:** Richard Fredrick Pierce ✓  
**Address:** RR 1 Box 123  
West Union, WV 26456

**Owner:** Elmer Woodyard Pierce ✓  
**Address:** 1634 Pleasant Hollow Rd.  
West Union, WV 26456

**Owner:** Elmer Woodyard Pierce (2<sup>nd</sup> Address) ✓  
**Address:** Rt. 1 Box 118  
West Union, WV 26456

**Owner:** Lewis Frank Pierce ✓  
**Address:** 475 Burton Run Rd.  
Pennsboro, WV 26415

**Owner:** James (Jim) A. Eliopulos ✓  
**Address:** PO Box 2407  
Buckhannon, WV 26201

**Owner:** Jack H. & Linda M. Langford ✓  
**Address:** 1487 White Oak Rd.  
Pullman, WV 26421

**Owner:** Rolley J. Wilson ✓  
**Address:** 353 Maryland Ave.  
Clarksburg, WV 26301

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12/24/2021







WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110  
 Charleston, West Virginia 25305-0430 • (304) 558-3505

D. Alan Reed, P.E.  
 State Highway Engineer

Jimmy Wriston, P. E.  
 Deputy Secretary/  
 Deputy Commissioner

September 22, 2021

James A. Martin, Chief  
 Office of Oil and Gas  
 Department of Environmental Protection  
 601 57<sup>th</sup> Street, SE  
 Charleston, WV 25304

Subject: DOH Permit for the Weekly West Pad, Ritchie County  
 Maxson Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #03-2016-0096 which has been issued to Antero Resources for access to the State Road for a well site located off Ritchie County Route 22/3 SLS MP 0.44.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.  
 Regional Maintenance Engineer  
 Central Office O&G Coordinator

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Cc: Melissa Hamsher  
 Antero Resources  
 CH, OM, D-3  
 File

# List of Anticipated Additives Used for Fracturing or Stimulating Well

4708510413

Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamethylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
Diethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

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