



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

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

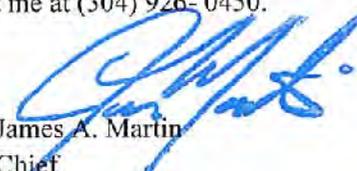
ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET
DENVER, CO 80202

Re: Permit approval for GANDER UNIT 1H
47-085-10416-00-00

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: GANDER UNIT 1H
Farm Name: DAVID W & DAVID MARTIN
U.S. WELL NUMBER: 47-085-10416-00-00
Horizontal 6A New Drill
Date Issued: 11/10/2021

Promoting a healthy environment.

11/12/2021

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

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.

11/12/2021

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: Gander Unit 1H 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: 10,900'

11) Proposed Horizontal Leg Length: 6,212'

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: _____

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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#	10,900	10,900	CTS, 2375 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		Leath-PO2 & TeH	H/PO2-1.44 & H-1.8
Liners							

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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.

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24) Describe all cement additives associated with each cement type:

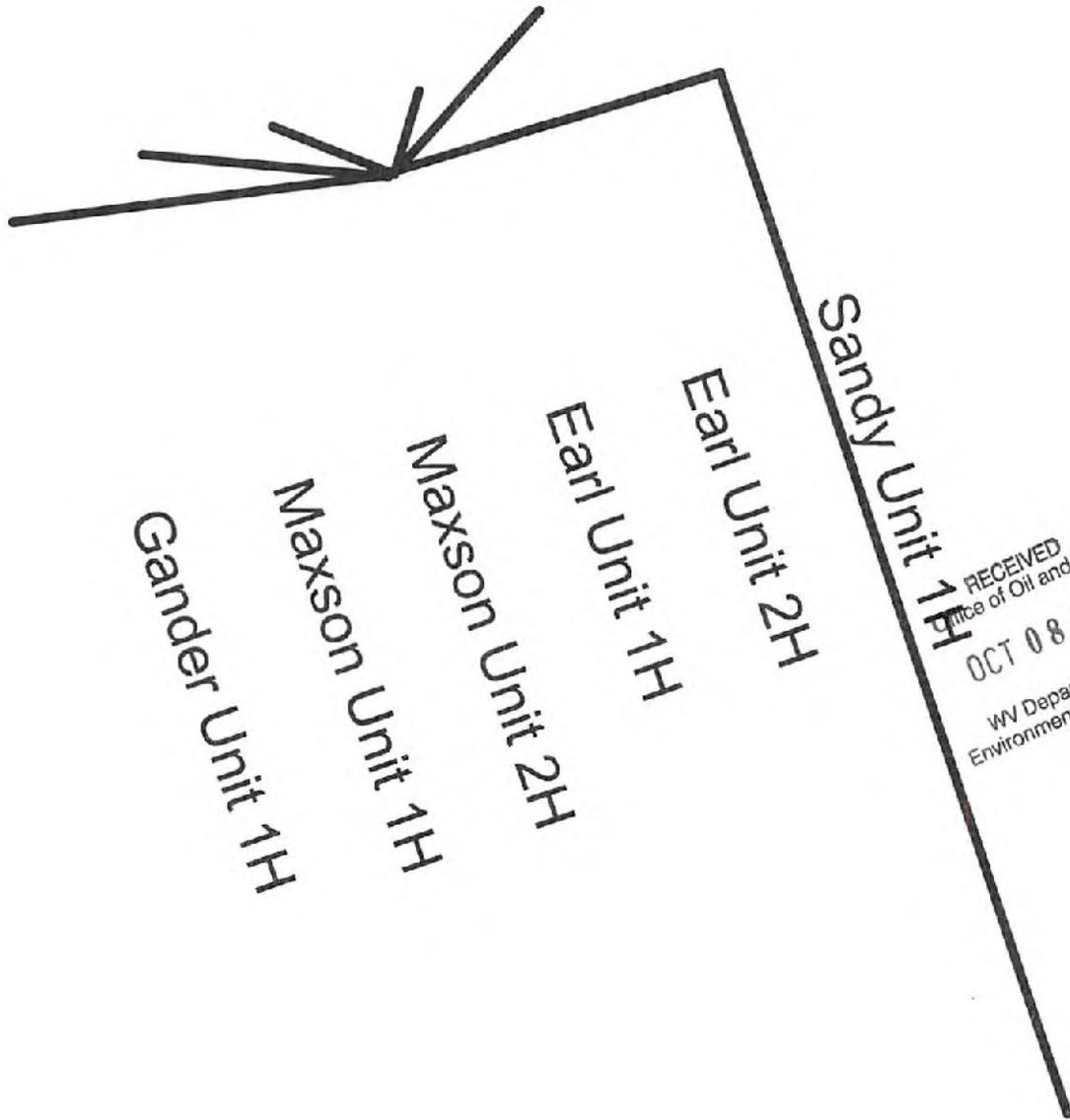
Conductor: no additives, Class A cement.
Surface Casing: Class A cement with 2-3% calcium chloride and 1/4 lb of flake.
Intermediate Casing: Class A cement with 1/4 lb of flake, 5 gallons of clay treat.
Production Casing Lead Cement: 50/50 Class H/POZ + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 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.



Weekley West - Lateral Diagram



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Weekley West Pad

○ *Weekley West Unit 5H*

○ *Sandy Unit 1H*

○ *Earl Unit 2H*

○ *Earl Unit 1H*

○ *Maxson Unit 2H*

○ *Maxson Unit 1H*

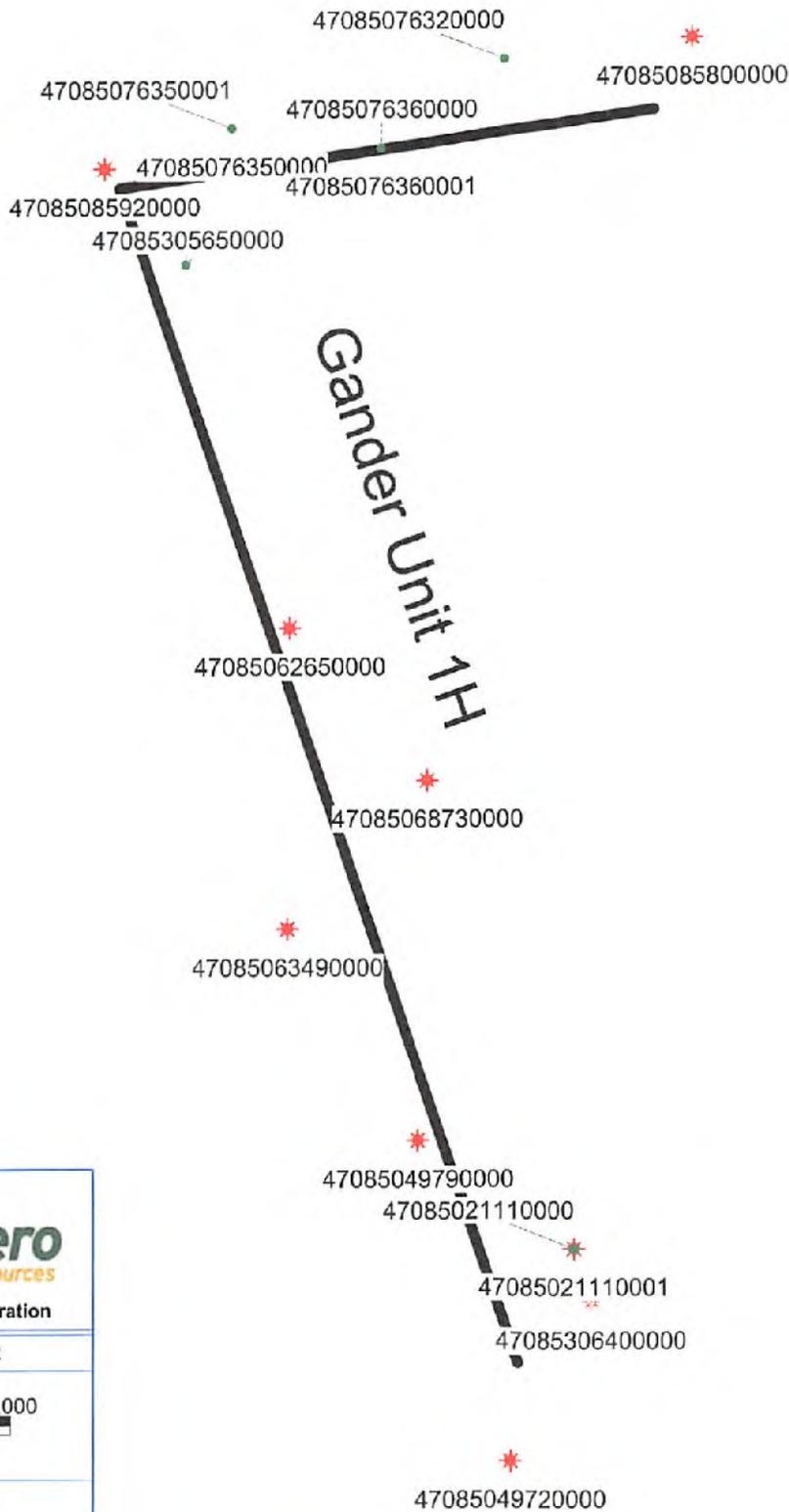
○ *Gander Unit 1H*

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Updated: 9/27/202

NOT TO SCALE
11/12/2021



Antero Resources Corporation

Gander Unit 1H - AOR



- WELL SYMBOLS**
- Gas Well
 - Oil & Gas Well
 - Oil Well
 - Plugged Gas Well
 - Plugged Oil Well

October 21, 2021

11/12/2021

Gander Unit 1H - AOR

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085049720000	DOROTHY H COX	1	PETROLEUM RES LLC	CHASE PETROLEUM CO	5,432	4445 - 5128	Riley, Benson, Alexander	Warren, Speechly, Balltown
47085306400000	MANLEY B ZINN 1	4920	PITTSBURGH&W VA GAS	PITTSBURGH&W VA GAS	1,827	Unknown	5th Salt Sand, Big Injun, Squaw	Warren, Speechly, Balltown
47085021110000	G SPIKER	1	ZICKEFOOSE W F & R L	MOSSOR W H	1,824	Unknown	Big Injun, Weir	Warren, Speechly, Balltown
47085021110001	BRADFORD SPIKER	1	ZICKEFOOSE W F & R L	TERM ENERGY	2,160	Unknown	Big Injun, Weir	Warren, Speechly, Balltown
47085049790000	SPIKER B Z & A W	1	BETA HELIX ENRGY LLC	CHASE PETROLEUM CO	5,108	4149 - 4872	Speechley, Balltown, Riley, Benson, Alexander	Alexander, Gordon, Berea
47085063490000	FLORENCE R PIERCE	1	SOLOMON PRODUCTION	STALNAKER GENE INC	5,300	3902 - 5113	Lower Huron, Angola	Alexander, Gordon, Berea
47085068730000	ET AL	1C	BOWYER DAVID	FOX DRILLING	5,138	3304 - 5106	Lower Huron, Angola	Alexander, Gordon, Berea
47085062650000	PIERCE FLORENCE R	1	BOWYER DAVID	STALNAKER GENE INC	5,450	3381 - 5206	Speechley, Riley, Benson, Alexander	Warren, Balltown
47085305650000	JOHN DEBRULAR	1	HOPE CONSTR & REFG	HOPE CONSTR & REFG	2,077	Unknown	Big Injun, Squaw	Alexander, Gordon, Berea
47085085920000	WEEKLY	3	KEY OIL CO	KEY OIL INC	5,320	Unknown	Unknown	Unknown
47085076350000	MARTIN HEIRS	3	RITCHIE PET CORP	HOPE CONSTR & REFG	2,040	2001 - 2009	Big Injun	Alexander, Gordon, Berea
47085076350001	MARTIN HEIRS	3	RITCHIE PET CORP	SOUTH PENN OIL	2,040	2001 - 2018	Big Injun	Alexander, Gordon, Berea
47085076360000	MARTIN HRS	4	RITCHIE PET CORP	HOPE CONSTR & REFG	1,988	1953 - 1958	Big Injun	Alexander, Gordon, Berea
47085076360001	MARTIN HRS	4	RITCHIE PET CORP	HOPE CONSTR & REFG	1,988	1960 - 1960	Big Injun	Alexander, Gordon, Berea
47085076320000	DOTSON T D	3	RITCHIE PET CORP	HOPE CONSTR & REFG	2,062	2023 - 2023	Big Injun	Alexander, Gordon, Berea
47085085800000	PIERCE	1	KEY OIL CO	KEY OIL INC	5,438	3448 - 5250	Balltown, Riley, Benson, Alexander	Gordon, Berea

WW-9
(4/16)

API Number 47 - ⁰⁸⁵~~885~~ - ¹⁰⁴⁶
Operator's Well No. Gander Unit 1H

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/Stiff 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

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" (2.52 acres) + Staging Area (0.41) + Well Pad (13.44 acres) + Excess/Topsail 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 Hansen

Comments: _____

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Title: Inspector Date: 10-13-21

Field Reviewed? () Yes (X) No

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



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ANTI-COLLISION

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 ¹	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

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

Bryan Hearn
 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)

OCT 18 2021

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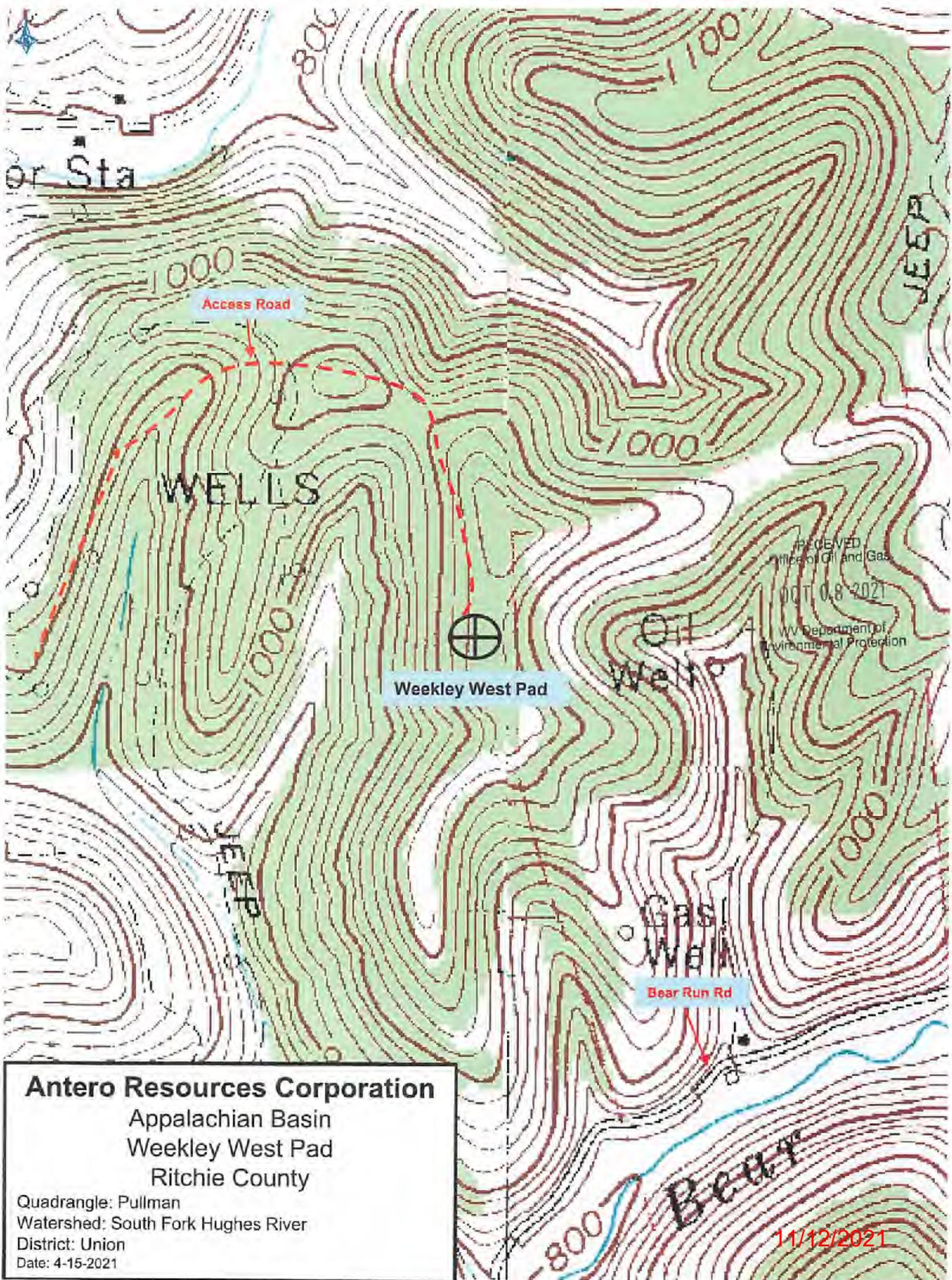
Driving Directions:

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



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Antero Resources Corporation
Appalachian Basin
Weekley West Pad
Ritchie County

Quadrangle: Pullman
Watershed: South Fork Hughes River
District: Union
Date: 4-15-2021

11/12/2021

LATITUDE 39°12'30" 109'

LATITUDE 39°10'00" 813' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Gander Unit 1H

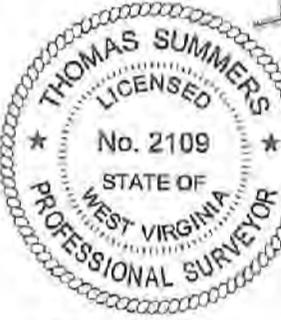
NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 246,871ft E: 1,610,057ft
LAT: 39°10'10.60" LON: 80°52'31.39"
BOTTOM HOLE INFORMATION:
N: 240,750ft E: 1,609,260ft
LAT: 39°09'09.98" LON: 80°52'40.31"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. SYSTEM WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT 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 1H TOP HOLE INFORMATION:
N: 4,335,616m E: 510,780m
BOTTOM HOLE INFORMATION:
N: 4,333,747m E: 510,568m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,223,718ft E: 1,675,735ft
POINT OF ENTRY INFORMATION:
N: 14,223,467ft E: 1,673,045ft
BOTTOM HOLE INFORMATION:
N: 14,217,565ft E: 1,675,040ft

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

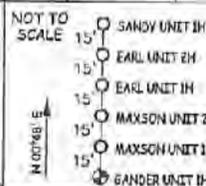
JOB # 15-058WA
DRAWING # GANDER1HR2S
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND
--- Surface Owner Boundary Lines +/-
--- Adjoining Surface Tracts +/-
⊕ Found monument, as noted

THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 09/02/21
OPERATOR'S WELL# GANDER UNIT #1H



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 085 - 16416
(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 +/-

OIL & GAS ROYALTY OWNER T. D. DOTSON ET UX; ALMA J. MARTIN ET AL.; DAVID W. WEEKLEY ET AL.; LEASE ACREAGE 39.87 AC. ±; 39.88 AC. ±; 71 AC. ±; JOHN M. DEBRULAR ET UX; LEWIS EARL PIERCE ET UX; BRADFORD SPIKER ET UX; DOROTHY H. COX; 154 AC. ±; 82 AC. ±; 52 AC. ±; 36 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 10,900' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD

FORM WW-5 DENVER, CO 80202 CHARLESTON, WV 25313

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
20-11.1	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
21-3	Dallas Smith
21-5	James Beek
25-6	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 Sportsman Assn, Inc.
26-16.1	South Fork Sportsman Assn, Inc.
26-17	South Fork Sportsman Assn, Inc.
26-26	Marvin Brissey
26-27	South Fork Sportsman Assn, Inc.
26-30	South Fork Sportsman Assn, Inc.
27-1	Linda Tennings
27-1.1	Linda Tennings
27-2	Randall Hies
27-3	Steven Luek
27-3.4	Ken Grotjan
27-3.5	Joshua Friedman
27-3.6	Lillian Martin
27-11	Miles Ball
27-15	Randall Pierce
27-15.1	Randall Pierce
27-16	Clarence Bush
27-20	South Fork Sportsman Assn, Inc.
27-21	Maxson Land LLC
27-22	Clarence Bush
32-1	Stanley Echard
32-1.3	Stanley Echard
32-2	Harold Pierce

5,061' TO BOTTOM HOLE

14,103'

1010H

LONGITUDE 80°52'30"

LATITUDE 39°12'30" 109'

LATITUDE 39°10'00" 813' TO BOTTOM HOLE

Antero Resources Corporation Well No. Gander Unit 1H

NOTES: WELL 1H TOP HOLE INFORMATION: N: 246,871ft E: 1,610,057ft LAT: 39°10'10.60" LON: 80°52'31.39" BOTTOM HOLE INFORMATION: N: 240,750ft E: 1,609,260ft LAT: 39°09'09.98" LON: 80°52'40.31" 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.

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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.



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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 # GANDER1HR2S SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND: Surface Owner Boundary Lines +/-, Adjoining Surface Tracts +/-, Found monument, as noted. THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 09/02/21 OPERATOR'S WELL# GANDER UNIT #1H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 085 - 10416 (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 DATE 11/12/2021 SURFACE OWNER DAVID W. & DAVID MARTIN WEEKLEY ACREAGE 39.87 ACRES +/- OIL & GAS ROYALTY OWNERT. D. DOTSON ET UX; ALMA J. MARTIN ET AL; DAVID W. WEEKLEY ET AL; LEASE ACREAGE 39.87 AC.±; 39.88 AC.±; 71 AC.±; JOHN M. DEBRULAR ET UX; LEWIS EARL PIERCE ET UX; BRADFORD SPIKER ET UX; DOROTHY H. COX; 154AC.±; 82 AC.±; 52 AC.±; 36 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 10,900' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

Table listing Union District - Ritchie County and well numbers (14-19, 20-3, 20-4, 20-7, 20-8, 20-9, 20-10, 20-11, 20-11.1, 20-11.4, 20-12, 20-12.1, 20-13, 20-13.1, 20-17, 20-18, 20-19, 20-20, 20-21, 21-3, 21-5, 21-5, 21-5, 26-6, 26-6.1, 26-7, 26-8, 26-9, 26-14, 26-14.1, 26-15, 26-16, 26-16.1, 26-17, 26-26, 26-27, 26-30, 27-1, 27-1.1, 27-2, 27-3, 27-3.4, 27-3.5, 27-3.6, 27-11, 27-12, 27-15.1, 27-16, 27-20, 27-21, 27-22, 32-1, 32-1.3, 32-2) with corresponding owner names.

5,061' TO BOTTOM HOLE LONGITUDE 80°52'30" 14,103' LONGITUDE 80°52'30"

WW-6A1

Operator's Well Number Gander Unit 1H

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>T.D. Dotson, et ux Lease</u>			
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
<u>Alma J. Martin, et al Lease</u>			
Alma J. Martin, et al	The Carter Oil Company	1/8	0011/0589
The Carter Oil Company	Hope Construction and Refining Company	Assignment	0052/0194
Hope Construction and Refining Company	Hope Natural Gas Company	Conveyance	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.	Merger	0058/0366
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CONSOL Energy Holdings, LLC	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
<u>David W. Weekley, et al Lease</u>			
David W. Weekley, et al	Ritchie Petroleum Corporation	1/8	0221/0796
Ritchie Petroleum Corporation	Key Oil Company	Assignment	0226/0492
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0253/0747
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705
<u>John M. Debrular et al Lease</u>			
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	Carter Oil Company	Assignment	0012/0373
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

11/12/2021

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
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
<u>Lewis Earl Pierce, et ux Lease</u> ✓			
Lewis Earl Pierce, et ux	C.O. Wise	1/8	0086/0291
C.O. Wise	C.A. Stricklin	Assignment	0093/0360
C.A. Stricklin	Big A Oil Corporation	Assignment	0152/0591
Big A Oil Corporation	Lamar Oil & Gas Company, Inc	Assignment	0266/0031
Lamar Oil & Gas Company, Inc	Antero Resources Appalachian Corporation	Assignment	0257/0778
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705
<u>Bradford Z. Spiker, et ux Lease</u> ✓			
Bradford Z. Spiker, et ux	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, & Desari S. Garrett	DC Petroleum, Inc	Assignment	0247/0245
DC Petroleum, Inc	Antero Resources Appalachian Corporation	Assignment	0254/0789
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705

**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
Dorothy H. Cox	Dorothy H. Cox	Alton Skinner	1/8	0132/0477
	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	0254/0902
	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 57th Street SE
Charleston, WV 25304

RE: Gander Unit 1H
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 Gander Unit 1H 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 Gander Unit 1H 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

11/12/2021

**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- 085 - 10416
Operator's Well No. Gander Unit 1H
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>4,355,616m</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 & 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		OOG OFFICE USE ONLY
<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:

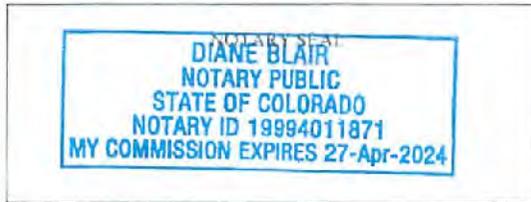
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

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 5th 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 or your personal information, please contact DEP's Chief Privacy Officer at deprivacvofficer@wv.gov.



WW-6A
(9-13)

API NO. 47-085 - 10416
OPERATOR WELL NO. Gandor Unit 1H
Well Pad Name: Weekley West Pad

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 26170

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

11/12/2021

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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.**

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.

WW-6A
(8-13)

API NO. 47- 085. 184/6
OPERATOR WELL NO. Gander Unit 1H
Well Pad Name: Weekley West Pad

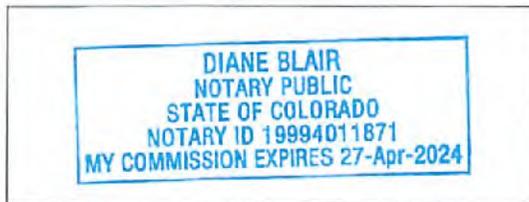
Notice is hereby given by:

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

Address: 1815 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 deprivacvofficer@wv.gov.



Subscribed and sworn before me this 5th day of Oct. 2021.

Diane Blair Notary Public

My Commission Expires 27 Apr 2024

11/12/2021

WW-6A ATTACHMENT – GANDER UNIT 1H

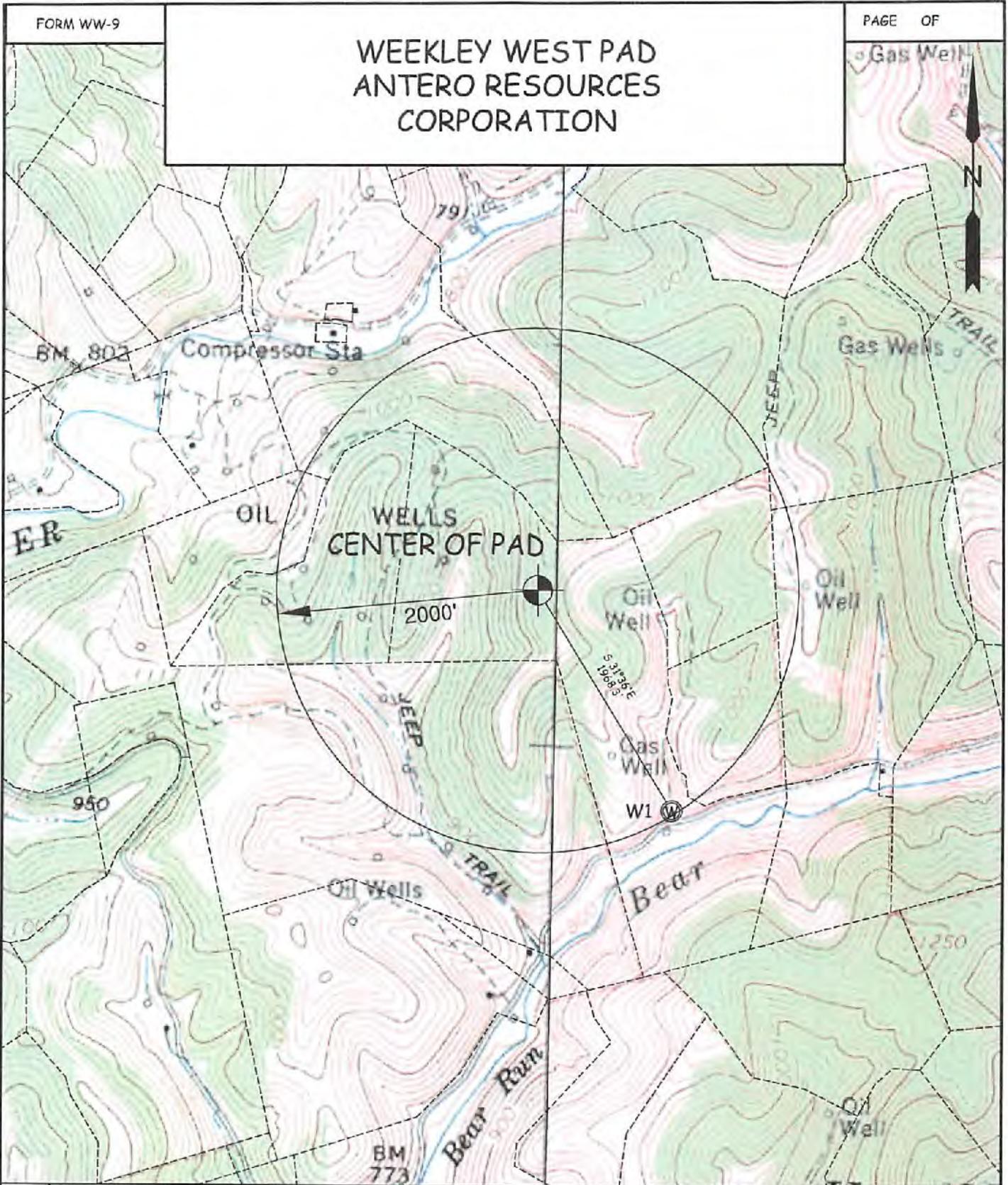
SURFACE OWNER(S) (ROAD AND OTHER DISTURBANCES):

Antero Resources Corporation
1615 Wynkoop Street
Denver, CO 80202

David Martin Weekley & David W. Weekley
987 Middle Island Creek Road
St. Marys, WV 26170

Carol A. Myers and Albin A Gesek
441 Pleasant Hollow Road
West Union, WV 26456

WEEKLEY WEST PAD ANTERO RESOURCES CORPORATION



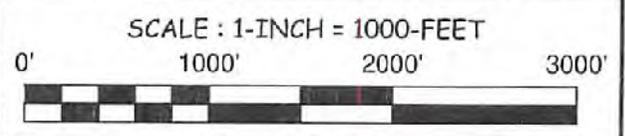
WELL SURFACE OWNER	ADDRESS	WELL LATITUDE	WELL LONGITUDE
W1 ELMER W. PIERCE	RT. 1 BOX 118, WEST UNION, WV 26456	39°09'55.34"	80°52'18.06"

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.
 JOB #: 12-063WA

DATE: 04/12/21 DRAWN BY: D.L.P.

FILE: WEEKLEYWEST5HWATERMAP



11/12/2021

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: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>Approx. 39.169759, -80.875204</u>
County: <u>Ritchie</u>	Public Road Access: <u>CR 22/3</u>
District: <u>Union</u>	Watershed: <u>South Fork Hughes River</u>
Quadrangle: <u>Pullman 7.5'</u>	Generally used farm name: <u>Weekley, David W. & David Martin</u>

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 57th 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.

Notice is hereby given by:

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

Tax Map 20 Parcel 10
Tax ~~11/12/2021~~ 12
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. Gesek
Address: 441 Pleasant Hollow Rd. ✓
 West Union, WV 26456

Owner: Carol A. Myers & Albina A. Gesek
 (2nd 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 (2nd 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 27th 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

RECEIVED
Office of Oil and Gas

OCT 08 2021

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

WV Department of
Environmental Protection

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 1st 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

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 (2nd 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

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 04/02/2021 **Date Permit Application Filed:** 04/19/2021

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: David M. Weekley and David W. Weekley
Address: 987 Middle Island Creek Road
St. Marys, WV 26170-4736

Name: David Pierce
Address: 715 Pleasant Hollow Road
West Union, WV 26456-6270

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 510777m
County: Ritchie Northing: 4335651m
District: Union Public Road Access: CR 22/3
Quadrangle: Pullman 7.5' Generally used farm name: David W. Weekley et al
Watershed: South Fork Hughes River

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Antero Resources Appalachian Corporation
Address: 1615 Wynkoop St.
Denver, CO 80202
Telephone: 303-357-7223
Email: mgriffith@anteroresources.com
Facsimile: 303-357-7315

Authorized Representative: Megan Griffith
Address: 1615 Wynkoop St.
Denver, CO 80202
Telephone: 303-357-7223
Email: mgriffith@anteroresources.com
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.

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

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:** 10/05/2021

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: David Martin Weekley & David W. Weekley
Address: 687 Middle Island Creek Road
St. Marys, WV 26170

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

RECEIVED
Office of Oil and Gas
OCT 08 2021

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on 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>4,335,616m</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 & David W. Weekley</u>	
Watershed:	<u>South Fork Hughes River</u>			

WV Department of Environmental Protection

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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

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

Oil and Gas Privacy Notice:

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, _____, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>510,780m</u>
County:	<u>Ritchie</u>	UTM NAD 83 Northing:	<u>4,335,616m</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 & David W. Weekley</u>
Watershed:	<u>South Fork Hughes River</u>		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p style="text-align: center;">FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p style="text-align: center;">FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
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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 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Weekly West Pad, Ritchie County
Gander Unit 1H 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,

A handwritten signature in blue ink that reads "Gary K. Clayton".

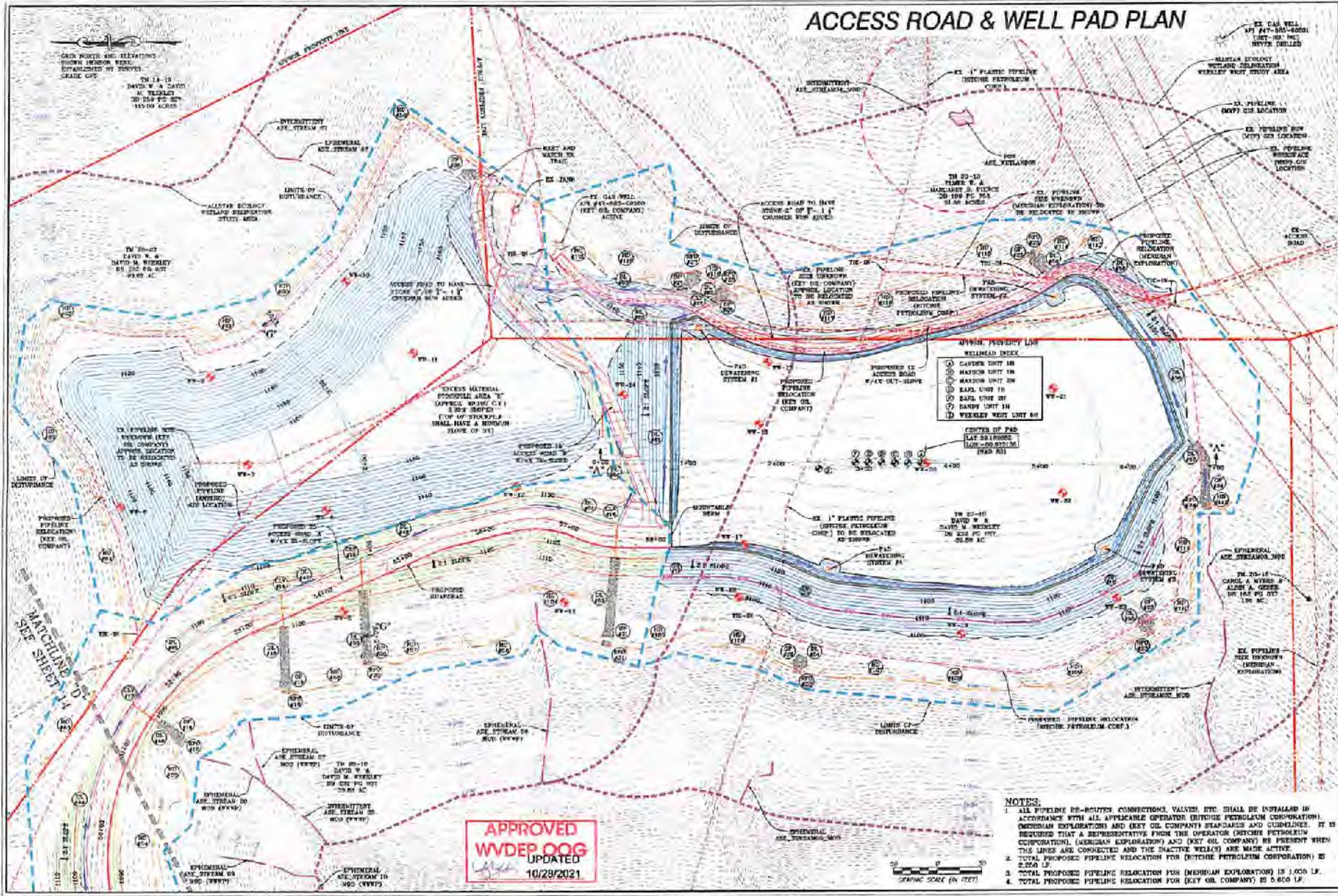
Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

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

List of Anticipated Additives Used for Fracturing or Stimulating Well

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

ACCESS ROAD & WELL PAD PLAN



APPROVED
WVDER DOG
UPDATED
10/29/2021

- NOTES:**
1. ALL PIPELINE RE-ROUTES, CONNECTIONS, VALVES, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE OPERATOR (RITCHEE PETROLEUM CORPORATION), (MERRIMAN EXPLORATION) AND (KEY OIL COMPANY) STANDARDS AND GUIDELINES. IT IS REQUIRED THAT A REPRESENTATIVE FROM THE OPERATOR (RITCHEE PETROLEUM CORPORATION), (MERRIMAN EXPLORATION) AND (KEY OIL COMPANY) BE PRESENT WHEN THE LINES ARE CONNECTED AND THE INACTIVE WELLS ARE MADE ACTIVE.
 2. TOTAL PROPOSED PIPELINE RELATIONSHIP FOR (RITCHEE PETROLEUM CORPORATION) IS 2,050 LF.
 3. TOTAL PROPOSED PIPELINE RELATIONSHIP FOR (MERRIMAN EXPLORATION) IS 1,000 LF.
 4. TOTAL PROPOSED PIPELINE RELATIONSHIP FOR (KEY OIL COMPANY) IS 0,800 LF.

NAVITUS
ENERGY ENGINEERING

DATE	REVISION
04/04/2021	REVISED FOR DATE MODIFICATION
04/24/2021	REVISED FOR WELL
04/24/2021	REVISED FOR TRAIL ACCESS
04/24/2021	REVISED FOR WELLS



THIS DOCUMENT WAS PREPARED FOR ANTERO ENERGY CORPORATION

ACCESS ROAD & WELL PAD PLAN
WEEKLEY WEST
WELL PAD & WATER CONTAINMENT PAD
UNION DISTRICT
RITCHIE COUNTY, WEST VIRGINIA



DATE: 04/09/2021
SCALE: 1" = 50'
SHEET 15 OF 30