

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

Tuesday, August 30, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for MARTINDILL UNIT 1H 47-095-02813-00-00

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

Operator's Well Number: MARTINDILL UNIT TH

Farm Name: SHIRLEY J WELLS & SUISE

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-095-02813-00-00

Date Issued: 8/30/2022

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

- 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 coasult 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 (20) feet of casing below the bottom of the void or install less than twenty
- 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
- 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.
- 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: 4709502813

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, consultancement 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.

API NO. 47-095	
OPERATOR WELL NO.	Martindill Unit 1H
Well Pad Name: Wrigle	y Pad

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

1) Well Operator:	Antero Res	ources Corporat	494507062	095-Tyler	Meade	Bens Run 7.5'
*			Operator ID	County	District	Quadrangle
2) Operator's Wel	l Number: Ma	artindill Unit 1H	Well Pa	ad Name: Wrig	ley Pad	
3) Farm Name/Su	rface Owner:	Shirley Wells/Susie Cunn	ingham Public Ro	ad Access: Ro	ck Run Rd	
4) Elevation, curre	ent ground:	964' Ele	evation, proposed	l post-construct	tion: ~937'	r)
) Gas X	Oil	Uno	derground Stora	ige	
)If Gas Sha	llow X	Deep	-		-
6) Existing Pad: Y		rizontal X				
7) Proposed Targe Marcellus Shale	* * * * * * * * * * * * * * * * * * * *), Depth(s), Antici	The latest the second s			
8) Proposed Total	Vertical Dept	h: 6600' TVD				
9) Formation at To		4.4				
10) Proposed Tota	al Measured D	epth: 21500'				
11) Proposed Hori	izontal Leg Le	ength: 12668.5'				
12) Approximate l	Fresh Water S	trata Depths:	397'			
13) Method to Det	termine Fresh	Water Depths: 4	7095025930000 Offset v	vell records. Depths have	ve been adjusted	according to surface elevations.
14) Approximate S	Saltwater Dep	ths: 1436', 1847'				
15) Approximate	Coal Seam De	pths: None Antic	cipated			
16) Approximate	Depth to Possi	ible Void (coal mi	ne, karst, other):	None Anticip	ated	
17) Does Proposed directly overlying			ns Yes	N	o X	
(a) If Yes, provide	de Mine Info:	Name:				RECEIVED Office of Oil and Gas
(A)		Depth:				AUG 1 5 2022
		Seam:				WV Department of
		Owner:				Environmental Protection

Page 1 of 3

Steve M'ly 899/0272022 WW-6B (04/15) API NO. 47- 095

OPERATOR WELL NO. Martindill Unit 1H
Well Pad Name: Wrigley Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	X-60	78.67#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	555'	555'	CTS, 578 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3100'	3100'	CTS, 1262 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110HP	20#	21500'	21500'	CTS, 4500 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.375"	2250	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	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"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A	RECEIVED Office of Oil and Gas
Sizes:	N/A	AUG 1 5 2022
Depths Set:	N/A	WV Department of Environmental Protection

API NO. 47- 095 OPERATOR WELL NO. Martindill Unit 1H
Well Pad Name: Wrigley Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill a new horizontal shallow well into the Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 28.45 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.35 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface. Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

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WV Department of Environmental Projection

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve,

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

WW-9 (4/16)

API Number 47 -	-
Operator's Well No.	Martindill 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
	Bens Run 7.5
Do you anticipate using more than 5,000 bbls of water to complete the proposed we	ll work? Yes ✓ No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and flowback	t Fluids will be stored in tanks. Cuttings will be tanked and hauled वर्ग site.)
Will a synthetic liner be used in the pit? Yes No ✓ If so	o, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number *UIC Perm	
Reuse (at API Number Future permitted well locations when applic Off Site Disposal (Supply form WW-9 for disposal locat	
Other (Explain	Northwestern Landfill Permit #SWF-1025/
	WV0109410 Wetzel County Landfill (Permit #SWF-1021)
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cutting	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater,	Surface - Ar/Freshwater, Intermediate - Dust/ oil based, etc. 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. Orlil cutti	ings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime	e, sawdust) N/A
-Landfill or offsite name/permit number? Meadowill Landfill (Permit #SWF-1032-98 -Wetzel County Landfill (Permit #SW), Northwestern Landfill (Permit #SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of dri West Virginia solid waste facility. The notice shall be provided within 24 hours of re where it was properly disposed.	ill cuttings or associated waste rejected at any
I certify that I understand and agree to the terms and conditions of the GE on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditions or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and compensations for submitting false information, including the possibility of fine or imprise Company Official Signature **Transport Terms and Company Official Signature** **Transport Terms and Conditions of the West Virginia Department of the GE.* **Transport Terms and Conditions of the West Virginia Department of the West Virginia Depa	f Environmental Protection. I understand that the ion of the general permit and/or other applicable familiar with the information submitted on this those individuals immediately responsible for complete. I am aware that there are significant
Company Official (Typed Name) Gretchen Kohler	ALC 1 F 2025
Company Official Title Director, Environmental and Regulatory Compliance	AUG 1 5 2022
	WV Department of
Subscribed and swom before me this 27 day of July	Environmental Protection
	, 20.2.2
My commission expires 27 Apr 2024	Notary Public DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024

Steve 709/02/2022 8/9/22

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

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

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13. Escaid 110

Drilling Fluild Solvent – Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration 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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WW-9 (4/16)

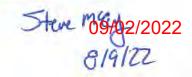
API Number 47 -

Operator's Well No. Martindill Unit 1H

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FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Code 494507062
	Bens Run 7.5
Do you anticipate using more than 5,000 bbls of water to complete the proposed	well work? Yes V No No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No pit will be used at this site (Orilling and flow	wback Fluids will be stored in lanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No ✓ I	f so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	STATE OF THE STATE
Underground Injection (UIC Permit Number *UIC Permi	
Reuse (at API Number Future permitted well locations when ap Off Site Disposal (Supply form WW-9 for disposal lo	
Other (Explain	Northwestern Landfill Permit #SWF-1025/
	WV0109410 Wetzel County Landfill (Permit #SWF-1021)
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cutt	tings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwa	Surface - Air/Freshwater, Intermediate - Dust/ ter, oil based, etc. 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, I	ime, sawdust) N/A
-Landfill or offsite name/permit number? _Meadowfill Landfill (Permit #SWF-103 -Wetzel County Landfill (Permit :	2-98), Northwestern Landfill (Permit #SWF-1025/WV0109410) #SWF-1021)
Permittee shall provide written notice to the Office of Oil and Gas of any load of West Virginia solid waste facility. The notice shall be provided within 24 hours where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or conclaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and a application form and all attachments thereto and that, based on my inquiry obtaining the information, I believe that the information is true, accurate, an penalties for submitting false information, including the possibility of fine or improved the company Official Signature. I certify under penalty of law that I have personally examined and a application form and all attachments thereto and that, based on my inquiry obtaining the information, I believe that the information is true, accurate, an penalties for submitting false information, including the possibility of fine or improved the provided that the	and familiar with the information submitted on this of those individuals immediately responsible for d complete. I am aware that there are significant
Company Official (Typed Name) Gretchen Kohler	A110 + F 0000
Company Official Title Director, Environmental and Regulatory Compliance	AUG 1 5 2022
Sompany Sansan Tana	WV Department of
	Environmental Protecti
Subscribed and sworn before me this 27 day of July	, 20_2_2
My commission expires 27 Apr 2024	Notary Public DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024



Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

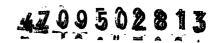
- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic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

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13. Escaid 110

Drilling Fluild Solvent – Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration 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

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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

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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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Operator's Well No. Martindill Unit 1H

Proposed Revegetation Treatment: Ac	res Disturbed 28.45	acres Prevegetation p	Н		
Lime 2-4 Tons	/acre or to correct to pH	6.5			
	Fiber (will be used where needed)				
Fertilizer amount 500	lbs	/acre			
Mulch 2-3	Tons/ac	Te.			
Access Road "A" (4.61 acres) + Staging area (0.75			74 acres) = 28.45 Total Affected Acres		
	Seed	Mixtures			
Temporary		Perm	anent		
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 see type,	(Wrigley Pad Design)	See attached Table IV-4 for additional	seed type (Wrigley Pad Design)		
			*or type of grass seed requested by surface owner		
Attach: Maps(s) of road, location, pit and properovided). If water from the pit will be creage, of the land application area.	osed area for land applica land applied, include dim	tion (unless engineered plans inclu	uding this info have been		
Attach: Maps(s) of road, location, pit and property provided). If water from the pit will be acreage, of the land application area. Photocopied section of involved 7.5' to	osed area for land applica land applied, include dim pographic sheet.	tion (unless engineered plans inclu	uding this info have been		
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LEGEND 0 Proposed gas well 禁 Existing Well, as noted Digitized Well, as noted • 47-095-30231 47-095-30222 47-095-30222 47-095-00617 **GRID NORTH** Plugged The orientation of this survey is Grid North, and its 47-095-30203 coordinate base is the West Virginia Coordinate System of 1927, North Zone 500' Buffer RECEIVED Office of Oil and Gas JUL 28 2022 WV Department of Environmental Protection Bridgeport Office 172 Thompson Drive Phone: (304) 848-5035 Fax: (304) 848-5037 Bridgeport, WV 26330 DRAWN BY J. Smith PARTY CHIEF: C. Lynch 2000 4000' July 15, 2022 RESEARCH: J. Miller PREPARED SURVEYED: Dec. 2016 PROJECT NO: 42-54-U-18 Scale: 1 inch = 2000 fe 019/02/2022 FIELD CREW: C.L., K.M. Sheet 1 of 1 DRAWING NO Martindill 1H AOR

Martindill Unit 1H

4709502813

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095302310000								
47095302220000								
47095302030000		ELECTION (
47095006170000	EPH WELLS	14	TRIAD HUNTER LLC	PENNZOIL CO INC				
Plugged Well								





911 Address 1199 Rock Run Rd Friendly, WV 26146

Well Site Safety Plan Antero Resources

Well Name: Wrigley Unit 5V, Little Unit 1H-2H, Martindill Unit

1H-2H, Trunk Unit 1H-2H

Pad Location: Wrigley Pad

Tyler County/Meade District

GPS Coordinates:

Entrance - Lat 39.423516"/Long -81.006496" (NAD83)

Pad Center - Lat 39.421315"/Long -81.007502" (NAD83)

Driving Directions:

From the town of Wick: Head north on Friendly Rush Fork/Hog Run Rd for 59 ft, Turn left onto Wick Rd for 1.7 miles, Turn right to stay on Wick Rd for 351 ft, Turn right onto Rock Run Rd for 1.1 miles, Access road will be on your left.

Office of Oil and Gas

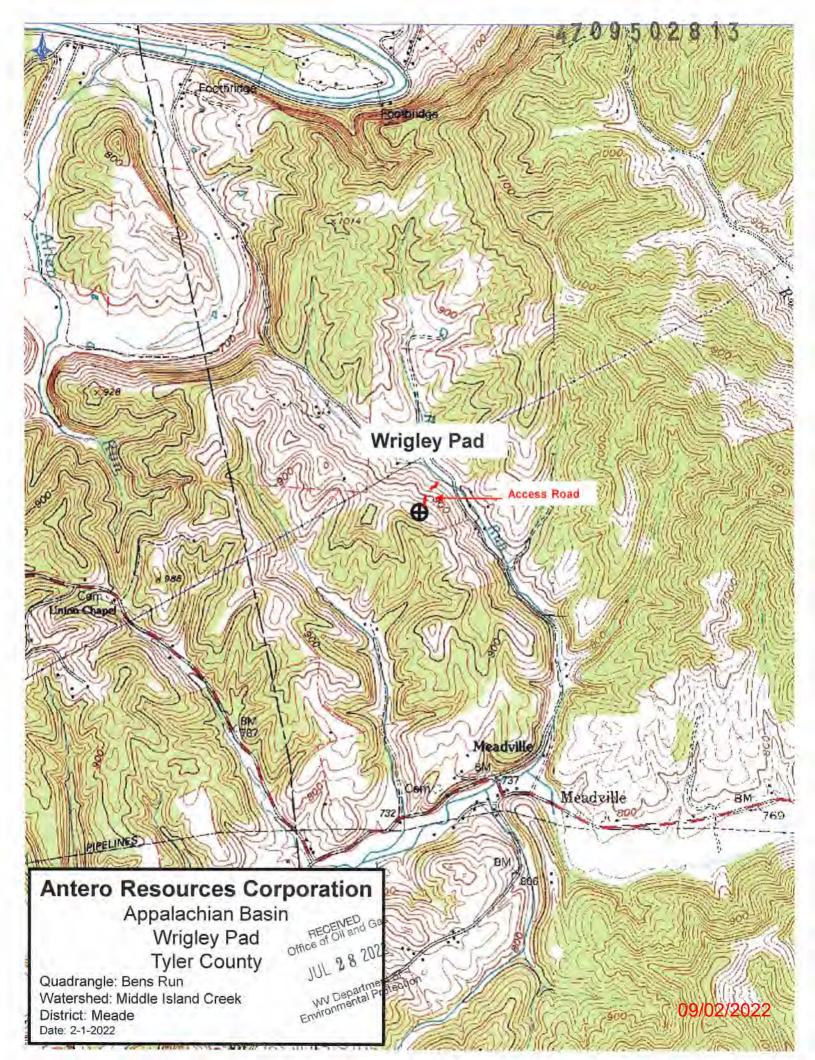
Alternate Route:

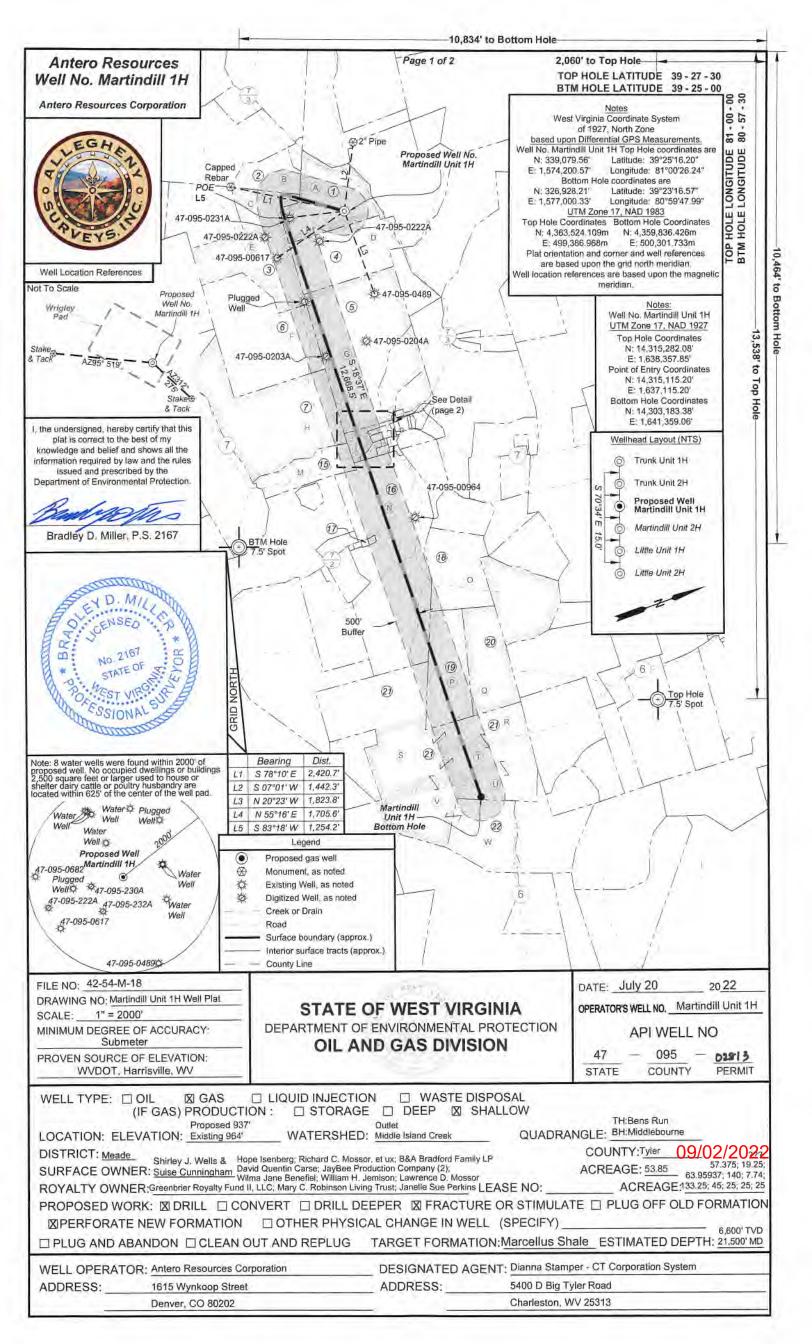
AUG 1 5 2022

From the town of Long Reach: Head southwest on WV-2 S for 1.9 miles, Turn left onto Affilia Reliment of Environmental Profestion for 4.0 miles, Turn right to stay on Arvilla Rd for 1.1 miles, Turn left onto Beech Run for 1.7 miles, Slight right onto Allen Run for 0.5 miles, Continue onto Falls Mills Rd/Shiloh-Slicker for 0.1 miles, Turn right onto Rock Run Rd for 1.7 miles, Access road will be on your right.

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

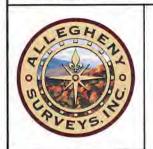
<u>69/02/2022</u> 8/9/27





Antero Resources Well No. Martindill 1H

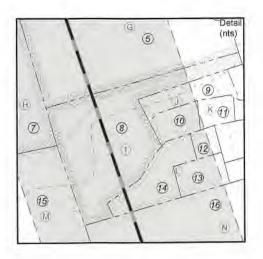
Antero Resources Corporation



ADDRESS:

1615 Wynkoop Street

Denver, CO 80202



	Leases
A	Greenbrier Royalty Fund II LLC
В	Antero Minerals, LLC
C	Janelle Sue Perkins
D	Mary C. Robinson Living Trust
E	Inex B. Fletcher, et vir
F	E.E. Bonner, et ux
G	Wilma Jane Benefiel
Н	Robert Carl Anderson
1	Hope Isenberg
J	Russell J. Lough, et ux
K	David C. Henderson
L	Richard C. Mossor, et ux
M	Richard L. Gorrell, et ux
N	William H. Jemison
0	Ridgetop Royalties, LLC
P	David Quentin Carse
Q	David C. Henderson
R	JayBee Production Company
S	JayBee Production Company
T	JayBee Production Company
U	Lawrence D. Mossor
٧	B&A Bradford Family LP
W	Ronald L. Simons

ID	TM/Par	Owner	Bk/Pg	Acres
1	7-2	Shirley J. Wells & Susie Cunningham	334/82	53.85
2	7-1.1	Daniel Preston Bonner	416/11	20.19
3	7-7	Janelle S. Perkins	184/378	74.08
4	7-8	John Wells	428/412	52.39
5	7-12	Wilma Jane (Benefiel) Wagner	W35/225	110.30
6	7-11	Timothy Bryant Perkins	481/481	91.77
7	7-17&18	Barbara Trunk Renner	332/525	97.00
8	7A-2	Hope Isenberg	358/449	7.74
9	7A-2.1	Russell J. & Judith Ann Lough	299/337	1.25
10	7A-17	Russell J. & Judith Ann Lough	299/337	1.25
11	7A-11	David Henderson & Sharley Shortridge	W47/263	0.72
12	7A-14	Richard C. & Shelly J. Mossor	558/470	0.40
13	7A-16	Richard C. & Shelly J. Mossor	58/472	1.00
14	7A-15	Richard C. & Shelly J. Mossor	558/474	1.36
15	7-17.2	Barbara Trunk Renner, et al	248/471	20.00
16	7-21	Wilma J. Monroe	W75/840	133.25
17	10-32	Wilma J. Monroe	W75/840	0.98
18	10-5	Thaddeus R. & Deborah A. Biedrzycki	349/513	44.73
19	10-6	BB Farm Investments LLC	594/417	45.00
20	10-7	David Henderson & Sharley Shortridge	W47/263	41.00
21	10-24	BB Farm Investments LLC	594/417	220.80
22	10-28	Ronald L. Simmons	340/784	42.04

5400 D Big Tyler Road

Charleston, WV 25313

FILE NO: 42-54-M-18 DATE: July 20 20 22 DRAWING NO: Martindill Unit 1H Well Plat OPERATOR'S WELL NO. Martindill Unit 1H STATE OF WEST VIRGINIA 1" = 2000' SCALE: DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: API WELL NO Submeter OIL AND GAS DIVISION 47 095 -02813 PROVEN SOURCE OF ELEVATION: COUNTY WVDOT, Harrisville, WV STATE PERMIT ☐ WASTE DISPOSAL ☐ LIQUID INJECTION X GAS WELL TYPE: □ OIL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW Proposed 937'
Existing 964'

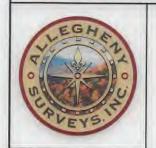
Outlet

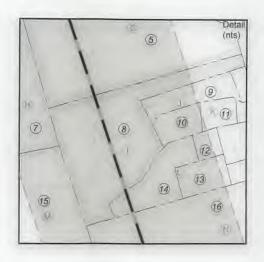
WATERSHED: Middle Island Creek

QUADRANGLE: BH:Middlebourne TH:Bens Run LOCATION: ELEVATION: Existing 964' COUNTY: Tyler 09/02/2022 DISTRICT: Meade Shirley J. Wells & Hope Isenberg; Richard C. Mossor, et ux; B&A Bradford Family LP David Quentin Carse; JayBee Production Company (2); ACREAGE: 53.85 57.375; 19.25; 19. PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,500' MD ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG DESIGNATED AGENT: Dianna Stamper - CT Corporation System WELL OPERATOR: Antero Resources Corporation

ADDRESS: _

Antero Resources Corporation





	Leases
A	Greenbrier Royalty Fund II LLC
В	Antero Minerals, LLC
C	Janelle Sue Perkins
D	Mary C. Robinson Living Trust
E	Inex B. Fletcher, et vir
F	E.E. Bonner, et ux
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21	10-24	BB Farm Investments LLC	594/417	220.80
22	10-28	Ronald L. Simmons	340/784	42.04

FILE NO: 42-54-M-18 DRAWING NO: Martindill Unit 1H Well Plat 1" = 2000' SCALE: MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

Denver, CO 80202

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

DATE: July 20 20 22 OPERATOR'S WELL NO. Martindill Unit 1H API WELL NO 02213 095

PERMIT

WVDOT, Harrisville, WV ☐ WASTE DISPOSAL ☐ LIQUID INJECTION WELL TYPE: □ OIL X GAS (IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW WATERSHED: Outlet TH:Bens Run

Middle Island Creek QUADRANGLE: BH:Middlebourne LOCATION: ELEVATION: Existing 964'

COUNTY: Tyler 09/02/2022

STATE COUNTY

DISTRICT: Meade DISTRICT: Meade Shirley J. Wells & Hope Isenberg; Richard C. Mossor, et ux; B&A Bradford Family LP
SURFACE OWNER: Suise Cunningham David Quentin Carse; JayBee Production Company (2);
Wilma Jane Benefiel; William H. Jemison; Lawrence D. Mossor
ROYALTY OWNER: Greenbrier Royalty Fund II, LLC; Mary C. Robinson Living Trust; Janelle Sue Perkins LEASE NO:

57.375; 19.25; ACREAGE: 53.85 57.375; 19.25; 63.95937; 140; 7.74; ACREAGE:133.25; 45; 25; 25; 25

TOTALIT OWNER, STOCKERS HOUSE	in each time, and respect to the surface of the sur	The state of the s	Chief Charles Control of the Control
PROPOSED WORK: IN DRILL III CO	NVERT DRILL DEEPER	R IN FRACTURE OR STIMULATE	□ PLUG OFF OLD FORMATION
XIPERFORATE NEW FORMATION	OTHER PHYSICAL CH	HANGE IN WELL (SPECIFY)	6 600' TVD

			עעו טעס,ס
☐ PLUG AND ABANDON	☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus Shale	ESTIMATED DEPTH: 21,500' MD

WELL OPERATO	OR: Antero Resources Corporation	DESIGNATED AC	GENT: Dianna Stamper - CT Corporation System
ADDRESS:	1615 Wynkoop Street	ADDRESS:	5400 D Big Tyler Road
SONIONIS SELECT	Denver, CO 80202		Charleston, WV 25313

Operator's Well Number

Martindill 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
A: Greenbrier Royalty Fund II, LLC Lease Greenbrier Royalty Fund II, LLC	Antero Resources Corporation	1/8+	0108/0631
B: Antero Minerals, LLC Lease Antero Minerals, LLC	Antero Resources Corporation	1/8÷	0184/0780
C: Janelle Sue Perkins Lease Janelle Sue Perkins	Antero Resources Corporation	1/8+	0155/0530
A: Greenbrier Royalty Fund II, LLC Lease Greenbrier Royalty Fund II, LLC	Antero Resources Corporation	1/8+	0108/0631
<u>D: Mary C. Robinson Living Trust Lease</u> Mary C. Robinson Living Trust	Antero Resources Corporation	1/8+	0590/0141
/G: Wilma Jane Benefiel Lease Wilma Jane Benefiel	Antero Resources Corporation	1/8+	0595/0537
/ I: Hope Isenberg Lease Hope Isenberg	Antero Resources Corporation	1/8+	0157/0184
L: Richard C. Mossor, et ux Lease Richard C. Mossor, et ux	Antero Resources Corporation	1/8+	0186/0737
N: William H. Jemison Lease William H. Jemison, a married man dealing in his sole and separate property	Antero Resources Corporation	1/8+	0424/0837
P: David Quentin Carse Lease David Quentin Carse	Antero Resources Corporation	1/8+	0168/0062
R: JayBee Production Company Lease JayBee Production Company	Antero Resources Corporation	1/8+ RECEIVED	0166/0358
/ <u>T: JayBee Production Company Lease</u> JayBee Production Company	Antero Resources Corporation	Office of Oil and Gas 1/8+ JUL 2 8 2022	0166/0358
		WV Department of Environmental Protecti	ion

^{*}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.

W	W-	6A1
(5/	/13))

Operator's Well No.	Martindill 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)

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- (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:

	Lawrence D. Mossor	Antero Resources Corporation	1/8+	0140/0778
/ U: Lawrence D. Mossor Lease				
Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

*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	RECEIVED Office of Oil and Gas
By:	Tim Rady (Led)	
Its:	Senior Vice President - Land	JUL 2 8 2022
		WV Department of

WV Department of Environmental Protection

Page 1 of 1



Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

July 26, 2022

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

RE: Martindill Unit 1H - 2H

Quadrangle: Bens Run 7.5'

Tyler County/Meade District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following applications for a new well work permits for the Martindill Unit 1H-2H horizontal shallow wells. 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 Martindill Unit 1H-2H horizontal laterals will drill through including any and all roads crossed under as identified on the attached survey plats.

Sincerely,

Tyler Adams Landman

Tyler Adams

RECEIVED Office of Oil and Gas

JUL 2 8 2022

Date of Notice Certification: 07/26/2022

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION 4709502813

API No. 47- 095

		•	Operator's	Well No. Mart	indill Unit 1H
			Well Pad N	ame: Wrigley	Pad
	e provisions in West Virginia Code §	22-6A, the Operator has prov	ided the rec	uired parties v	vith the Notice Forms listed
below for the State:	tract of land as follows: West Virginia		Facting:	499386.97m	
State: County:	Tyler		Easting: Northing:	4363524.11m	
District:	Meade	Public Road Acce	_	Rock Run Rd	
Quadrangle:	Bens Run	Generally used far		Wells	
Watershed:	Outlet Middle Island Creek				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shall the owners of the surface describe equired by subsections (b) and (c), sec surface owner notice of entry to surfor subsection (b), section sixteen of a § 22-6A-11(b), the applicant shall tend have been completed by the applicant.	ed in subdivisions (1), (2) artion sixteen of this article; (ii) vey pursuant to subsection (a) this article were waived in order proof of and certify to the	nd (4), subs that the real, section to writing by	ection (b), se quirement was ten of this art the surface or	ction ten of this article, the deemed satisfied as a resulticle six-a; or (iii) the notice wher; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required ECK ALL THAT APPLY	rator has attached proof to the parties with the following:	is Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURVI	EY or 🔳 NO PLAT SURVI	EY WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NO		☐ NOTICE NOT REQUIR NOTICE OF ENTRY FOR IT WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER II (PLEASE ATTACH)	BY SURFA	CE OWNER	
■ 4. NO	ΓΙCE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUI	BLIC NOTICE		Offic	RECEIVED e of Oil and Ga	≅□ RECEIVED
■ 6. NO	TICE OF APPLICATION		Jl	JL 28 2022	☐ RECEIVED
	ttoohmonto			/ Department c nmental Protec	ction

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.

Its:

Certification of Notice is hereby given:

THEREFORE, I Diana Hoff , 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: Antero Resources Corporation By: Diana Hoff ana

Senior VP of Operations

Telephone: 303-357-7310 Address: 1615 Wynkoop Street

Denver, CO 80202 303-357-7315

Facsimile:

Email: mstanton@anteroresources.com

DNOTARY SEA NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 AY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 27 day of

Notary Public

My Commission Expires

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.

> RECEIVED Office of Oil and Gas

JUL 28 2022

WW-6A (9-13)

4709502813

API NO. 47- 095

OPERATOR WELL NO. Martindill Unit 1H

Well Pad Name: Wrigley 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: 03/24/2022 Date Permit Application Filed: 07/27/2022 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE PERMIT FOR ANY WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) **PERSONAL** REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL 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: ☐ COAL OWNER OR LESSEE SURFACE OWNER(s) Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: Shirley Wells Address: Address: 1509 Maple Avenue Wellsville, OH 43968-1253 COAL OPERATOR Name: Susie Cunningham RECEIVED Name: NO DECLARATIONS ON RECORD WITH COUNTY Office of Oil and Gas Address: 1509 Maple Avenue Address: Wellsville, OH 43968-1253 JUL 28 2022 ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) M SURFACE OWNER OF WATER WELL Name: WV Department of AND/OR WATER PURVEYOR(s) Address: **Environmental Protection** Name: PLEASE SEE ATTACHMENT Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

RECEIVED Office of Oil and Gas

JUI 28 2022

OPERATOR WELL NO. Martindill Unit 1H Well Pad Name: Wrigley Pad

Notice is hereby given:

WV Department of Pursuant to West Virginia Code § 22-6A-10(b), notice is hereb Egyion that all protectioned 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/oiland-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

WW-6A (8-13) A 7 0 9 5 0 2 8 1 3

OPERATOR WELL NO. Martindill Unit 1H

Well Pad Name: Wrigley Pad

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:

Office of Oil and Gas

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

JUL 28 2022

WV Department of Environmental Protection

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.

WW-6A (8-13) API NO. 47-095 9 5 0 2 8 1 3 OPERATOR WELL NO. Martindill Unit 1H Well Pad Name: Wrigley Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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JUL 28 2022

WW-6A (8-13)

API NO. 4

OPERATOR WELL NO. Martindill Unit 1H

Well Pad Name: Wrigley Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

(303) 357-7310 Telephone: Email:

Diana mstanton@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.

DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 27 day of July 2022.

Notary Public

My Commission Expires

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JUL 28 2022

WW-6A Notice of Application Attachment (WRIGLEY PAD- MULTIPLE WELLS)

WATER SOURCE OWNERS: Within 2000'

TM 4 PCL 20.3

1 Water Well: 1585.3" (W1)

Owner:

Cecil E. & Linda M. Jordan

Address:

535 Washington St.

Newell, WV 26050-1127

TM 4 PCL 20.1

3 Water Wells:1545.2" (W2) 1461.6' (W3) & 1430.3' (W5)

Owner:

Richard W. Barnhart, Jr.

Address:

1431 Rock Run Rd.

Friendly, WV 26146-7505

TM 7 PCL 2

1 Water Well: 792.4' (W4)

Owner:

Susie Cunningham

Address:

1509 Maple Ave.

Wellsville, OH 43968-1258

TM 7 PCL 3

2 Water Wells: 853.5' (W6) & 870.0' (W7)

Owner:

Harry Edward West

Address:

1059 Rock Run Rd.

Friendly, WV 26146-7506

TM 7 PCL 8

1 Water Well: 1021.5' (W8)

Owner:

John W. Wells

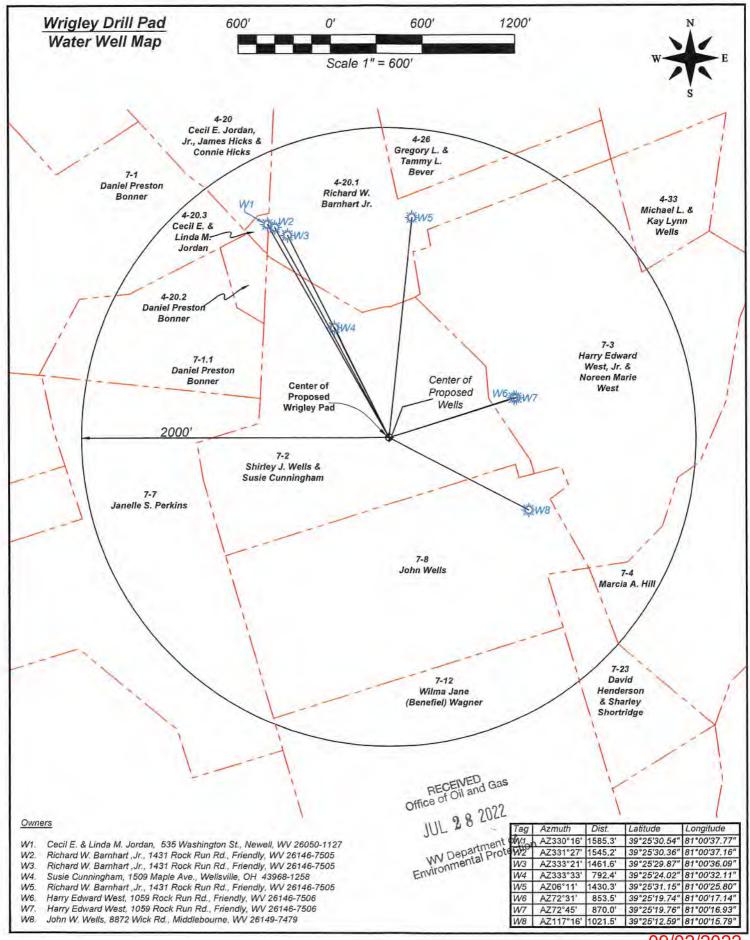
Address:

8872 Wick Rd.

Middlebourne, WV 26149-7479

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JUL 28 2022



WW-6A4 (1/12) Operator Well No. Martindill Unit 1H
Wrigley Pad

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.

Date of Notice		Notice shall be pro-	ate Permit Appl					
Delivery meth	hod pursuant t	o West Virginia C	Code § 22-6A-16	(b)				
☐ HAND	•	CERTIFIED MAII	L					
DELIVE	RY	RETURN RECEI	PT REQUESTEI)				
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Address: 1509	Maple Ave			Address:	1509 Maple Ave			
Wells	ville, OH 43968-1258				Wellsville, OH 4396	68-1258		
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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 deprivacyofficer@wv.gov.

WW-6A5 (1/12) Operator Well No. Martindill Unit 1H

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

Date of Noti		rided no later than the filing date of permit rmit Application Filed: 07/27/2022	t application.
Delivery me	thod pursuant to West Virginia C	Code § 22-6A-16(c)	
■ CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receip the planned required to b drilling of a damages to ti (d) The notice of notice.	t requested or hand delivery, give to operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas of the required by this section shall be	the surface owner whose land will be used for this subsection shall include: (1) A copy on ten of this article to a surface owner who had surface use and compensation agreement perations to the extent the damages are compared to the surface owner at the address like the surface owner at the address like the surface owner at the surface owner at the address like the surface owner at the address like the surface owner at the su	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for appensable under article six-b of this chapter, isted in the records of the sheriff at the time
	reby provided to the SURFACE (ss listed in the records of the sheriff		
	rley Wells	Name: Susie Cunningha	
Address: 150		Address: 1509 Maple Ave	
	eby given:	Wellsville, OH 43	3968-1253
Notice is her Pursuant to V operation on State: County:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the puwest Virginia Tyler	notice is hereby given that the undersigned urpose of drilling a horizontal well on the transport of the UTM NAD 83 Output Discrepance of the control of t	well operator has developed a planned act of land as follows: 499386.97m 4363524.11m
Notice is her Pursuant to V operation on State: County: District:	reby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Tyler Meade	notice is hereby given that the undersigned urpose of drilling a horizontal well on the tree Easting: UTM NAD 83 Northing: Public Road Access:	well operator has developed a planned act of land as follows: 499386.97m 4363524.11m Rock Run Rd
Notice is her Pursuant to V operation on State: County: District: Quadrangle:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the puwest Virginia Tyler	notice is hereby given that the undersigned urpose of drilling a horizontal well on the transport of the UTM NAD 83 Output Discrepance of the control of t	well operator has developed a planned act of land as follows: 499386.97m 4363524.11m
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice Pursuant to V to be provid horizontal was surface affectinformation	reby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the put west Virginia Tyler Meade Bens Run Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(bell; and (3) A proposed surface used ted by oil and gas operations to the related to horizontal drilling may, located at 601 57th Street, SE,	notice is hereby given that the undersigned urpose of drilling a horizontal well on the transpose of drilling. Public Road Access: Generally used farm name: this notice shall include: (1)A copy of this to a surface owner whose land will be and compensation agreement containing a ne extent the damages are compensable unbe obtained from the Secretary, at the WV	well operator has developed a planned act of land as follows: 499386.97m 4363524.11m Rock Run Rd Wells 4 code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-RECEIVED
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice Pursuant to V to be provid horizontal was surface affect information in headquarters gas/pages/de	reby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the put west Virginia Tyler Meade Bens Run Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface used the poil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx.	notice is hereby given that the undersigned urpose of drilling a horizontal well on the transpose of drilling. Public Road Access: Generally used farm name: this notice shall include: (1)A copy of this to a surface owner whose land will be and compensation agreement containing a neextent the damages are compensable unbe obtained from the Secretary, at the WY Charleston, WV 25304 (304-926-0450)	well operator has developed a planned act of land as follows: 499386.97m 4363524.11m Rock Run Rd Wells 4 code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection (a) or by visiting www.dep.wv.gov/oil-and-RECEIVED Office of Oil and Gas
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice Pursuant to V to be provid horizontal we surface affect information of headquarters gas/pages/de	reby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the pure west Virginia Tyler Meade Bens Run Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(bell; and (3) A proposed surface use eted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx. Or: Antero Resources Corporation	notice is hereby given that the undersigned urpose of drilling a horizontal well on the transpose of drilling. Public Road Access: Generally used farm name: this notice shall include: (1)A copy of this to a surface owner whose land will be and compensation agreement containing a ne extent the damages are compensable unbe obtained from the Secretary, at the WV Charleston, WV 25304 (304-926-0450 Address: 1615 Wynkoop Str.	well operator has developed a planned act of land as follows: 499386.97m 4363524.11m Rock Run Rd Wells code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-RECEIVED Office of Oil and Gaseet
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice Pursuant to V to be provid horizontal wasurface affectinformation in headquarters	reby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the put west Virginia Tyler Meade Bens Run Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface used the poil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx.	notice is hereby given that the undersigned urpose of drilling a horizontal well on the transpose of drilling. Public Road Access: Generally used farm name: this notice shall include: (1)A copy of this to a surface owner whose land will be and compensation agreement containing a neextent the damages are compensable unbe obtained from the Secretary, at the WY Charleston, WV 25304 (304-926-0450)	well operator has developed a planned act of land as follows: 499386.97m 4363524.11m Rock Run Rd Wells code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-RECEIVED Office of Oil and Gaseet 111 2 8 7022

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 deprivacyofficer@wv.gov.

4709502813 API NO. 47-095 OPERATOR WELL NO. Martindill Unit 1H

Well Pad Name: Wrigley Pad

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 , 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 , including the erosion and sediment control plan, if WW-6A and attachments consisting of pages one (1) through required, and the well plat, all for proposed well work on the tract of land as follows: State: West Virginia Easting: 499386.97m UTM NAD 83 County: Tyler Northing: 4363524.11m District: Public Road Access: Meade Rock Run Rd Quadrangle: Generally used farm name: Bens Run Watershed: Outlet Middle Island Creek

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.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
☐ SURFACE OWNER	Signature:
☐ SURFACE OWNER (Road and/or Other Disturbance)	Print Name:
☐ SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION, ETC.
☐ COAL OWNER OR LESSEE	Company:
☐ COAL OPERATOR	By: RECEIVED Its: Office of Oil and Gas
☐ WATER PURVEYOR	Signature: JUL 2 8 2022
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: WV Department of Environmental Protection

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 deprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

July 11, 2022

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 Wrigley Pad, Tyler County

Martindill Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0028 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 7/3 SLS MP 1.19.

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,

RECEIVED
Office of Oil and Gas

Gary K. Clayton, P.E.

Gary K. Clayton, P.E.

Regional Maintenance Engineer Environmental Protection

Central Office O&G Coordinator

Cc: Diane Blair

Antero Resources CH, OM, D-6

File

Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code 22-6-22.)

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)	
1.	Fresh Water	7732-18-5	
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
3.	Ammonium Persulfate	7727-54-0	
4.	Anionic copolymer	Proprietary	
5.	Anionic polymer	Proprietary	
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	
7.	Cellulase enzyme	(Proprietary)	
8.	Demulsifier Base	(Proprietary)	
9.	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	
	i. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
	'. Isopropyl alcohol	67-63-0	
18	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2	
19	. Microparticle	Proprietary	
20	. Petroleum Distillates (BTEX Below Detect)	64742-47-8	
21	Polyacrylamide	57-55-6	
22	. Propargyl Alcohol	107-19-7	
23	. Propylene Glycol	57-55-6	
24	. Quartz	14808-60-7	
25	. Sillica crystalline quartz	7631-86-9	
26	. Sodium Chloride	7647-14-5	
27	. Sodium Hydroxide	1310-73-2	
	S. Sugar	57-50-1	
	. Surfactant	68439-51-0	
30	. Suspending agent (solid)	14808-60-7	
	. Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7	
	. Solvent Naptha, 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	
	. Hexamythylene Triamine Penta	34690-00-1	
	. Phosphino Carboxylic acid polymer	71050-62-9	
	. Hexamethylene diamine penta	23605-74-5	
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9 Office	ECEIVED of Oil and Gas
	. Hexamethylene diamine penta (methylene phosphonic a	orcid) 23605-74-5	of Oil and Ga
	. Diethylene Glycol		2 8 2022
	. Methenamine	100-97-0	# 0 LULL
	. Polyethylene polyamine	cocoa ez o WV De	partment of
	. Coco amine	61791-14-8	ental Protection
-1-1	. 2-Propyn-1-olcompound with methyloxirane	38172-91-7	

WRIGI FY WELL PAD & WATER CONTAINMENT PAD

SITE DESIGN & CONSTRUCTION PLAN. **EROSION & SEDIMENT CONTROL PLANS**

> MEADE DISTRICT, TYLER COUNTY, WEST VIRGINIA SUGAR CREEK WATERSHED

> USGS 7.5 BENS RUN & MIDDLEBOURNE QUAD MAPS

PROPOSED

APPROVED WVDEP OOG 8/29/2022

CENTER OF TANK
LATITUDE: 39.421600 LONGITUDE -81.008242 (NAB 83)
LATITUDE: 39.421523 LONGITUDE: -81.008510 (NAD 27)
N. 4383565 87 E 408281-97 (UTN ZONE 17 NETERS) CENTROID OF PAD LATITUDE: 39.421316 LORGITUDE: -01.007602 (NAD 23) LATITUDE: 39.421236 LONGITUDE: -01.007670 (NAD 27) N 4335352.11 E 498354.26 (UTM ZONE 17 METERS)

LOCATION COORDINATES:
ACCESS ROAD ENTRANCE
LATITUDE: 39.422516 LONGITUDE: -81.008498 (NAD 83)
LATITUDE: 39.422549 LONGITUDE: -81.008498 (NAD 27)
A JOSEPH S. 6. 499440.83 (UTM 20NE 17 METER)

FLOODPLAIN NOTES:
THE PROPOSED SITE IS LOCATED IN FLOOD ZONE X" PER FEMA MAP NUMBERS #54095C0125C

MISS UTILITY STATEMENT.

WILL SOFTING MISS LITERATE OF WEST VIBIGINA FOR THE LOCATING OF UTILITIES PROBE TO THES PROJECT DESIGN. IN ADDITION, MISS UTILITY WILL SE CONTACTED BY THE CONTACTED BY THE PROJECT DESIGN OF THE PROJECT.

ENTRANCE PERMIT:
ANTER RESOURCE CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM 100) FROM THE REST VIRGINAL DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHRAIS, PRORE TO ENAMENCEMENT OF

ENVIRONMENTAL NOTES:
STEAM AND WETLAND ELINEATIONS WERK PLEFORMED IN SEPTEMBER, 2023 BY ALISTAR ECOLOGY TO
STEAM AND WETLAND ELINEATIONS WERK PLEFORMED IN SEPTEMBER, 2023 BY ALISTAR ECOLOGY TO
ENTRY THE STEP FOR WATERS AND WETLANDS THAT ARE MOST LINEAY WITHIN THE REGULATORY PURPLY
OF THE U.S. ARMY CORPS OF ENGINEERS (ULMER) AND/OR THE WEST VIRGINAL DEPARTMENT OF
OF THE U.S. ARMY CORPS OF ENGINEERS (ULMER) AND/OR THE WEST VIRGINAL DEPARTMENT OF
THE WAS FREEWARD BY ALISTAR ECOLOGY AND SUMMARIZES THE RESULTS OF THE FIELD DELOWATION. THE
MAP DOES NOT, IN ANY WAY REPRESENT A JURISDICTIONAL DETERMINATION OF THE LAUDHARD LIGHTS OF
WATERS AND WATTANDS WHICH WAY BE REGULATED BY THE USAGE OR THE WORD IT IS STRONGED.
COMPITMATION OF THE DELINEATION SHOWED IN THIS EXPORTANT PROMISE PROMISE TO
COMPITMATION OF THE DELINEATION SHOWED IN THE APPROPRIATE PROMISE THE PROSPECT OF WATERS OF THE
PROBLEM, AND/OR STATE RECULATION AGRICUATE PRIOR TO MAY PROPOSED IMPACTS TO WATERS OF THE
VECULA AND/OR STATE RECULATION AGRICUATE PRIOR TO MAY PROPOSED IMPACTS TO WATERS OF THE

GEOTECHNICAL NOTES:
A SUBSUPACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PERNSYLVANIA SOIL &
ECCK, INC. ON APERL 10-19, 2016. THE REPORT PERPARED BY PENNSYLVANIA SOIL & ROCK, INC.
DATED JUNE 6, 2016, REVISED SEPTEMBER 22, 2014, REPLECTS THE SEBULTS OF THE SUBSURFACE
NEVESTICATION. THE DEPOPMENT AND RECOMMENDATIONS CONTAINED IN THIS EXPORT WERE USED.
IN THE PERPARATION OF YERSE PLASS. FLASS. SEPTEMBER TO THE SUBSURFACE INVESTIGATION REPORT
PENNSYLVANIA SOIL & BEACK, INC. FOR ADDITIONAL DIVIDIATION, AS MEDICAL

PROJECT CONTACTS:

OPERATOR: ANTERO RESOURCES CORPORATION 535 WHITE OAKS BLVD BRIDGEPORT, WY 28330 PHONE: (304) 842-4100 FAX: (304) 842-4100

ELI WAGONER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER OFFICE: (304) 842-4088 CELL: (304) 475-9770

DIANA HOFF SVP OPERATIONS OFFICE (303) 327-6804

AARON KUNZLER - CONSTRUCTION MANAGER CELL: (304) 842-4191

ROBERT EDDY - UTILITY COORDINATOR CELL (304) 719-5199

JIN WILSON - LAND AGENT OFFICE (304) 842-4419 CELL (304) 571-2706

ENGINEER/SURVEYOR
MAITIUS ENGINEERING, INC.
CYRUS 2 KOMP. PF - PROJECT
MANAGER/ENGINEER
OFFICE: (888) 662-4185 CELL: (640) 686-6747

ENVIRONMENTAL: ALISTAR ECOLOGY, LLC RYAN L. WARD - ENVIRONMENTAL SCIENTIST (806) 213-2666 [ELL: (304) 692-7477

- RESTRICTIONS NOTES:

 1. THERE ARE NO LAKES, FORDS, OR RESERVOIRS WITHIN 100 PERT OF THE WELL PAD AND LOD, THERE ARE PERCHAND, STREAMS & WETLAND IMPACTS THAT WILL NEED TO BE PERMITTED BY THE APPROPRIATE AGENCIES
- 2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO APPARENT EXESTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 258
 FEET OF THE WELL(S) BEING DRILLED.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2.500 SQUARE FEET WITHIN 625-FEET OF THE CENTER OF THE WELL PAD.

WELL PAD/ WATER -STACHNO CONTAINMENT PAD AREA 3



(NOT TO SCALE)

REPRODUCTION NOTE THESE PLANS WERE CHEATED TO BE PLOTTED ON 22 NOA" (ANGL D)
DAPER HALF SCALE DRAWINGS ARE ON 11 NOT (ANSL D) PAPER

THESE PLANS WERE CREATED FOR COLOR FLOTTING AND ANY METHODUCTIONS IN GRAY SCALE OR CULDRY MAY RESULT BY A LISS OF NEWBATTON AND SHOULD NOT BE USED EDS. CONSTRUCTION PHILIPOSES

DESIGN CERTIFICATION:
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS
ATTACHED HEREO'D HAVE BEEN PREPARED IN ACCORDANCE WITH
THE WEST VIRGINIA COOR OF STATE RULES, DIVISION OF
ENVIRONMENTAL PROTECTION, OFFICE OF OLL AND GAS CRS 35-8.

WYDOH COUNTY ROAD MAP

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

SHEET INDEX:

- COVER SHEET CONSTRUCTION AND EAS CONTROLS NOTES

- 1 CVYAR SYSERT
 1 CVYAR SYSERT
 2 CACCASE
 4 MATTERIAL QUANTITIES
 5 STORN BRANAGE & RES COMPUTATIONS
 6 ENTRY BRANAGE & RES COMPUTATIONS
 6 CONTROL BRANAGE & RES COMPUTATIONS
 6 CONTROL STRUCTURES & PEATURES
 7 OVERAIL PLAN SHEET INDEX & VOLUMES
 8 OVERAIL PLAN SHEET INDEX & VOLUMES
 9 ACCESS ROAD, STADIOG AREA & WELL PAD PLAN
 12 ACCESS ROAD PROFILE
 13 ACCESS ROAD PROFILE
 14 WELL PAD & STOCOTIE SECTIONS
 14 WELL PAD & STOCOTIE SECTIONS
 15 STREAM CROSSING BITAILS
 16 ES CONSTRUCTION DITAILS
 16 CONSTRUCTION DITAILS
 16 ACCESS ROAD, FANGER SEA WELL PAD RECLAMATION PLAN
 17 STREAM ROAD, STADIOG BLE STOCOTIE SECTIONS
 18 ACCESS ROAD, FANGER SEA WELL PAD RECLAMATION PLAN
 18 ACCESS ROAD, FANGER SEA WELL PAD RECLAMATION PLAN
 18 ACCESS ROAD, FANGER SEA WELL PAD RECLAMATION PLAN
 18 CONTROL RECLAMATION PLAN
 18

WEIGLEY LIMITS OF DISTURBANCE A	men (not
Total Sin	
Access Road "A" (1576')	4.61
Staging Area	0.75
Well Pad	10.35
Excess/Topsoil Malerial Slockpiles	12.74
Total Affected Area	28.45
Total Wooded Acres Disturbed	16.80
Impacts to Shirtey J. Walls & Sustr Cunningham Raiph D. Wells Oils G. Walls TM 7	
Access Road "A" (1575")	4.61
Staging Area	0.75
Well Pad	10.35
Excess/Topsoil Material Stockpiles	12.74
Total Affected Area	25.46

Value harms	NACI 27	NAD 27 Lat & Long	MAD AS UTM: (METERS) ZONE 17	NAD ES LAS A LUNG
		Per	metred Lacottien	THE R. LEWIS CO., LANSING
Trunk	N 339030 52	LAT 39-25-18 2920	N 4363527 00	VAT 39-2%-96,5992
DINGE OH	E 1574172 28	LIDNG -81-03-29 (8074	E 496STERE	LONG-81-00-28 0018
Trunk	N 339064.54	LAT 30-25-16-2452	N 4363625.55	LAT 39-25-16.5223
LINIT 2H	E 1574188 43	LONG -61-00-26-0280	E 400382 63	LONG -81-00-25 8205
Martingilli	N 339079.98	LAT 39-25-18-1988	N 4363624.11	LAT 20.25-MS 4754
UNIT 1H	E 1674200.67	LONG #1-00-25-2447	E 499385.97	LONG-#1-00-25 6391
Martindill	N 339774 58	LAT 39-25-16, 1514	N 4363522 66	LAT 39-25-16.4285
UNIT 2H	E 1574214.72	LONG 41-00-25 0835	E 496391 30	LONG 41-09-25-4578
Little	N 336069 60	LAT 39-25-15 1045	N 4363521.22	LAT 28-75-16 3817
UNIT 1H	E 1574228 87	LONG -81-00-25 8920	E 499390 84	LONG -81-09-25 2784
Little	A 309064 82	LAT 39-25-16:0577	N 4363519.77	LAT 39-25-16.3346
UNIT 29	E 15740M3.02	LONG -81-00-25,7005	E 496399.68	LONG 61-00-25 0961
Ontion	N 339145.72	LAT 39-25-16-80#1	N 4063542.79	LAT 20-25-17 0812
UNIT 1H	E 1573915 90	LDNG 41-43-29 9485	E 400298 41	LCNG-91-00-29.3430
Oakon	N 339181 ST	LAT 39-25-16 7805	N 4363541 45	LAT 39-25-17-0378
UNIT DH	E 1573925 25	LONG-81-00-29 7656	E 496'902.78	LDN3-61-00-29 1603
Rate	N 339136:41	LAT 39-25-16 7108	N 4383540.10	LAT 39-25-16 9030
LINET THE	t tsrama.st	LONG-81423-29-9831	E 490307.1E	LONG-81409-28-9777
Forum	N 329131 75	LAT 39-25-16.6732	N 4363536.75	LAT 29-2% W STOD
UNIT 2H	E 1573963.77	LONG -81-00-29 4035	E 499311-51	LONG-81-00-28 7950
Wrighty	N 339189, 15	LAT 39-25-17 0700	N 4363550 NS	LAT 39-25-17.3500
UNIT SV	E 1574106.93	LONG-61-00-27-4600	E 496357.08	LDNS -81-00-25-6500
Proposed Veil	Pad Elevation	937.0		

WRIGLEYWETL	AND IMPAC	T (SQUARE FEE	7)
Wetland and Impact Cause	Fit (SF)	Total Impact (SF)	Total Impact (AC)
GA Westend 12 (Access Road)	70	70	0.002
ASE Wedand 1 (Access Road)	1,593	1,593	0.04

WHIGLEY PE	Penne	TREAM IMPACT (Temp. Impacts	
Stream and Impact Cause	Convert	Intets/Outlets Structures (LF)	Commidant Las	(LF)
GAI Stream 1 (Access Road)	65	. 0	34	99

WRIGLEVINTE	RMITTENT	STREAM MPAU	LINEAR FEET	
	Pairma	nant impents	Temp Impacts	Total Impact
Stream and Impact Cause	Fai(LF)	Structures (LF)	Cofferdam/ EAS Controls (LF)	(LF)
ASE Stream 10 (Access Road)	37	18	28	81
GAI Stream 35 ASE Stream 9 (Access Road)	89	45	22	156

S ENGINEERING

DATE	REVISION	-
2202/02/90	REVISED PER WELLS	П
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WATER CONTAINMENT MEADE DISTRICT COUNTY, WEST VIRGINIA WRIGLEY

COVER



DATE: 01/17/2022 SCALE: AS SHOWN SHEET 1 OF 27

