

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

Permit approval for MARTINDILL UNIT 2H Re: 47-095-02814-00-00

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.

Operator's Well Number: MARTINDILL UNIT 2H SHIRLEY J WELLS & SUSIE

James A Chief

Farm Name:

47-095-02814-00-00

U.S. WELL NUMBER: Horizontal 6A New Drill

Date Issued: 8/30/2022

PERMIT CONDITIONS

West Virginia Code § 22-6A-3(d) allows the Office of Oil and Gas to place specific conditions upon this parmit. Permit conditions have the same effect as law. Failure to adhere to the specified negrated action.

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this parmit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of easing. Under no circumstance should (20) feet of easing 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 supply well.
- 6. Pursuant to the requirements pertaining to the sampling of demestic 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
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designer immediately.
- 9. If any emplosion or other assident causing loss of life or serious personal injury occurs in or about a well or explosion or assident, the well operator or its commentor shall give notice, stating the particular of the explosion or assident, to the oil and gas inspector and the Chief, within 24 hours of said assident.
- 10. During the casing and communing process, in the event coment does not return to the surface, the oil and gas inspector shall be notified within 24 hoges.

APT Number: 4709502814

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 ped, commencement of drilling, cereation of drilling, canding an email to DEFOOCHothy@wv.gov.

WW-6B (04/15) API NO. 47- 095 OPERATOR WELL NO. Martindill Unit 2H
Well Pad Name: Wrigley Pad

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

1) Well Operator	-: Antero Re	esources Corporat	494507062	095-Tyler	Meade	Bens Run 7.5'
A Thomas A Thomas Control			Operator ID	County	District	Quadrangle
2) Operator's We	ell Number: 1	Martindill Unit 2H	Well Pa	ad Name: Wrig	ley Pad	
3) Farm Name/S	urface Owner	Shirley Wells/Susie Cunn	Public Ro	ad Access: Ro	ock Run Ro	
4) Elevation, cur	rent ground:	964' El	evation, proposed	l post-construc	tion: ~937	
Company of the second second	(a) Gas X Other	Oil	Une	derground Stora	age	
(S. Vinn Colins	hallow X orizontal X	Dеер			<
6) Existing Pad:	Yes or No N	0				
the second secon	the second second second second	(s), Depth(s), Antic Anticipated Thickne	 	Control of the contro		
8) Proposed Tota	d Vertical De	pth: 6600' TVD				
9) Formation at 7		The state of the s	ři			
10) Proposed To	tal Measured	Depth: 21200'				
1) Proposed Ho	rizontal Leg l	Length: 13035.2'				
12) Approximate	Fresh Water	Strata Depths:	397'			
13) Method to De 14) Approximate		h Water Depths: 4 epths: 1436', 1847'		ell records. Depths hav	ve been adjusted	according to surface elevation
15) Approximate	Coal Seam I	Depths: None Antic	cipated			
16) Approximate	Depth to Pos	sible Void (coal mi	ne, karst, other):	None Anticipa	ated	
		on contain coal sean to an active mine?	ns Yes	N	o X	
(a) If Yes, prov	ide Mine Info	: Name:				RECEIVED Office of Oil and Gas
100		Depth:				AUG 1 5 2022
		Seam:				WV Department of
		Owner:			E	nvironmental Protection

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Stew Mrsy 8/969/02/2022 WW-6B (04/15)

OPERATOR WELL NO. Martindill Unit 2H
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	- 1						
Production	5-1/2"	New	P-110HP	20#	21200'	21200'	CTS, 4425 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.375"	2250	50	Class A	~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 15 1922
Depths Set:	N/A	WV Department of Environmental Protection

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5-4nMg 09/02/2022 WW-6B (10/14) API NO. 47- 095

OPERATOR WELL NO. Martindill Unit 2H

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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25) Proposed borehole conditioning procedures:

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

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

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

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

*Note: Attach additional sheets as needed.

Stem Meg 09/02/12022

WW-9 (4/16)

API Number 47 -	
Operator's Well No.	Martindill Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Co	ode 494507062
Watershed (HUC 10) Outlet Middle Island Creek Quadrangle Bens Ru	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work Will a pit be used? Yes No	⟨? Yes ✓ No
it so, prease describe anticipated pit waste.	ml.? N/A
- Anna American	# will be provided on Form WR-34
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings remo	etzel County Landfill (Permit #SWF-1021)
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil ba -If oil based, what type? Synthetic, petroleum, etc. Synthetic	Surface - Air/Freshwater, Intermediate - Dust/
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings store	ed in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawd	dust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northw Wetzel County Landfill (Permit #SWF-1021	vestern Landfill (Permit #SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cutti West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERA on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Envir provisions of the permit are enforceable by law. Violations of any term or condition of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familia application form and all attachments thereto and that, based on my inquiry of those obtaining the information, I believe that the information is true, accurate, and complete penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature [Patthen Kohler]	ronmental Protection. I understand that the the general permit and/or other applicable ar with the information submitted on this individuals immediately responsible for the individual respo
Company Official (Typed Name) Gretchen Kohler	AUG 1 5 2022
Company Official Title Director, Environmental and Regulatory Compliance	WV Department of Environmental Protection
Subscribed and sworn before me this 27 day of	, 2022
	Notary Public
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

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

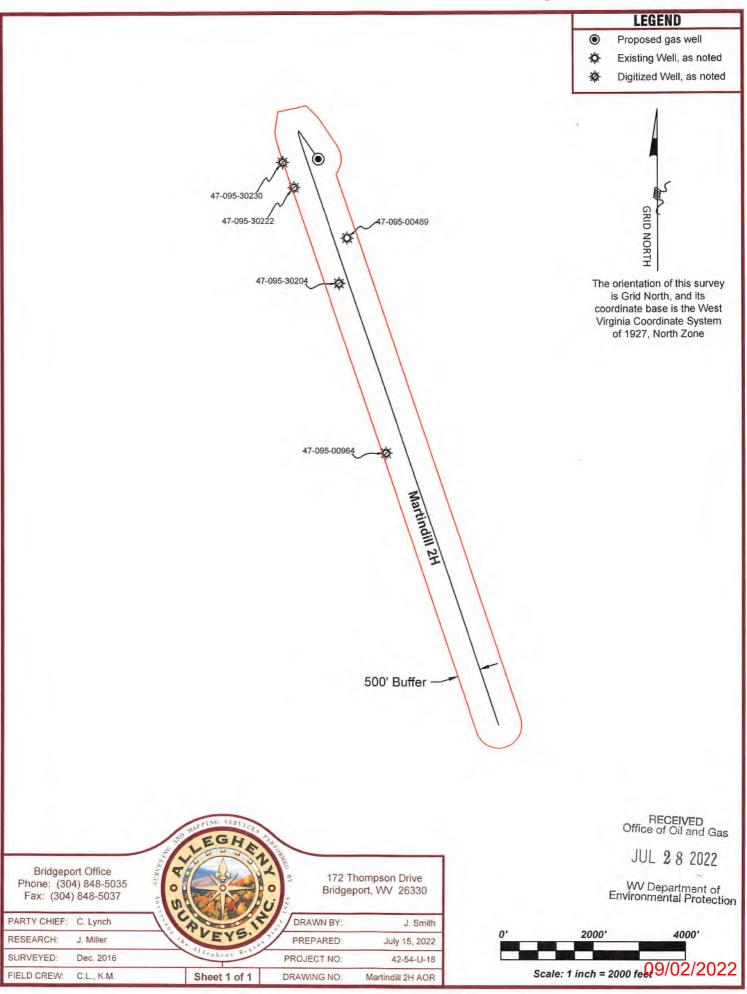
Drilling Fluid Lubricant

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Field Reviewed?

Proposed Revegetation Treatmen	nt: Acres Disturbed 28.45	acres Prevegetation p	Н
Lime 2-4	Tons/acre or to correct to pH	6.5	
Fertilizer type Hay or Straw	or Wood Fiber (will be used where needed)		
Fertilizer amount 500	16	s/acre	
Mulch 2-3	Tons/2	ncre s) + Excess/Topsoil Material Stockpiles (12.:	74 30 45 T-+-1 Affirst of
Access Road A (4.01 acres) + Staging a		1 Mixtures	4 acres) = 20.43 Total Affected
Temp			anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
	40	Tall Fescue	30
Field Bromegrass	40	rail rescue	30
Field Bromegrass See attached Table IV-3 for additional		See attached Table IV-4 for additional	
*or type of grass seed requested Attach: Maps(s) of road, location, pit and provided). If water from the pit of	I by surface owner d proposed area for land applic		seed type (Wrigley Pad Design) ted by surface owner uding this info have been
*or type of grass seed requested Attach: Maps(s) of road, location, pit and provided). If water from the pit value acreage, of the land application a	d proposed area for land application will be land applied, include diarea. 7.5' topographic sheet.	*or type of grass seed reques	seed type (Wrigley Pad Design) ted by surface owner uding this info have been
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UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095302300000								
47095302220000								
47095004890000	DON & HELEN WAGNER	1	PETHTEL OIL & GAS	PETHTEL OIL & GAS	2,947		Gordon	Weir, Benson, Alexander
47095302040000	J O MARTIN	2	CASTO OIL CO	CASTO OIL CO				
47095009640000	JEMISON H	2	CHARITY GAS INC	BISON INC	4,751	4282 - 4633	Huron	Weir, Benson, Alexander

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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.

Alternate Route:

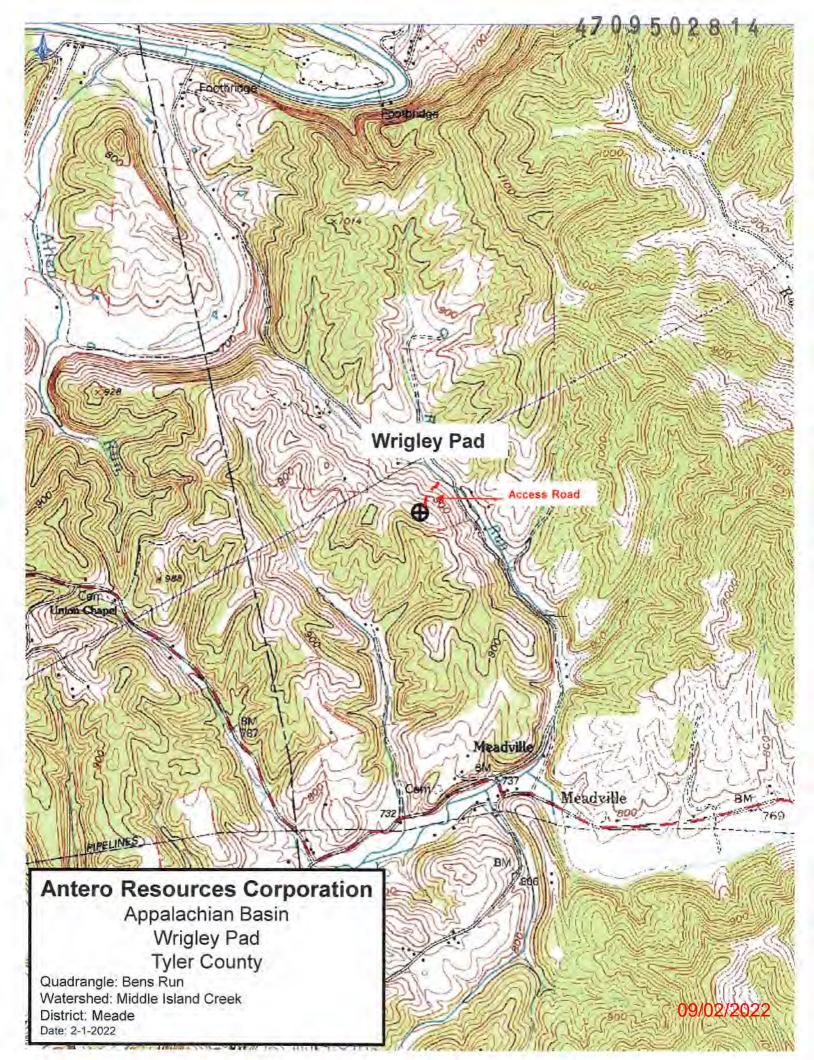
From the town of Long Reach: Head southwest on WV-2 S for 1.9 miles, Turn left onto Arvilla Rd for 4.0 miles, Turn right to stay on Arvilla Rd for 1.1 miles, Turn left onto Beech Run for 1.7 miles, Slight right onto Allen Run for 0.5 miles, Continue onto Falls Mills Rd/Shiloh-Slicker for 0.1 miles, Turn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

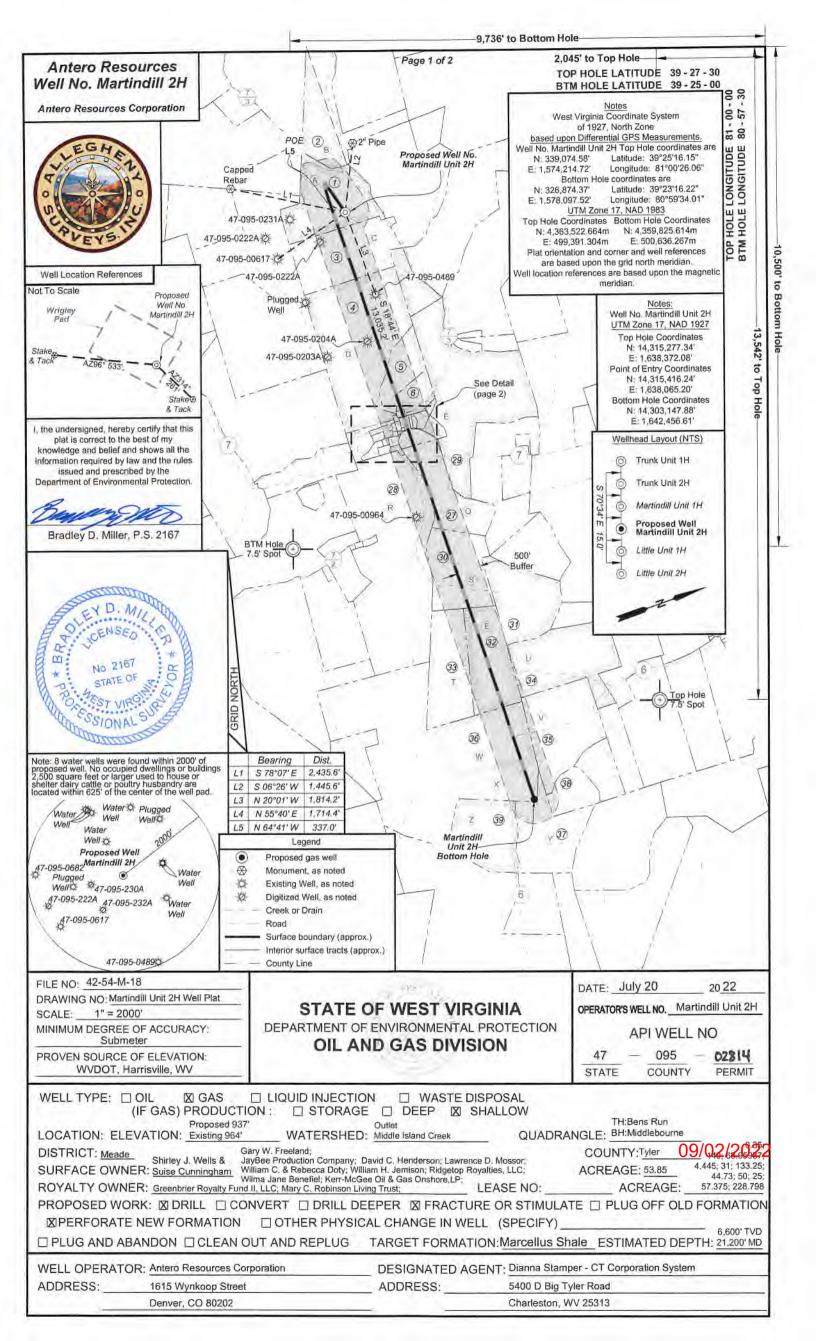
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

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Antero Resources Well No. Martindill 2H

Antero Resources Corporation



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			Leases		
Α	Greenbrier Royalty Fund II LLC	J	Russell J. Lough, et ux	S	Ridgetop Royalties, LLC
В	Kerr-McGee Oil & Gas Onshore LP	K	Kenneth G. Hall	T	David Quentin Carse
C	Mary C. Robinson Living Trust	L	Michael A. Mossor, et ux	U	Steven L. & Jeral A. McGowan
D	Wilma Jane Benefiel	M	David C. Henderson	V	Arnold L. Schulberg Oil & Gas Trust
E	David C. Henderson	N	Kerr-McGee Oil & Gas Onshore LP	W	JayBee Production Company
F	Jerry Irvin Lowther, Jr., et ux	0	Richard C. Mossor, et ux	X	Lawrence D. Mossor
G	Gary W. Freeland	P	Sherry Snyder	Y	Robert R. Osterland, et ux
Н	Stephen M. Deaton	Q	William C. Doty & Rebecca Doty	Z	Ronald L. Simons
1	Hope Isenberg	R	William H. Jemison		

ID.	TM/Par	Owner	Bk/Pg	Acres	ID	TM/Par	Owner	Bk/Pg	Acres
1	7-2	Shirley J. Wells & Susie Cunningham	W41/317	53.85	21	7A-6	Kenneth G. Hall	555/34	0.13
2	4-20.1	Richard W. Barnhart Jr.	213/162	49.74	22	7A-1.1	Thaddeus R. & Deborah A. Biedrzycki	504/359	4.44
3	7-8	John Wells	428/412	52.39	23	7A-5	Jay W. Westbrook & Teresa K. Hill	324/537	0.88
4	7-12	Wilma Jane (Benefiel) Wagner	W35/225	110.30	24	7A-14	Richard C. & Shelly J. Mossor	558/470	0.40
5	7-12.2	Gary W. Freeland	336/530	19.97	25	7A-16	Richard C. & Shelly J. Mossor	58/472	1.00
6	7-12.1	Gary W. Freeland	251/546	8.73	26	7A-4	Sherry Snyder	420/53	1.00
7	7-19.1/.2	Kenneth G. Hall	555/34	0.45	27	7-22	Thaddeus R. & Deborah A. Biedrzycki	581/74	31.00
8	7A-7	Gary W. Freeland	256/480	0.35	28	7-21	Wilma J. Monroe	W75/840	133.25
9	7A-19	Paul & David Frum	W12/154	0.31	29	7-19	Darlene Henderson	W47/263	122.83
10	7A-9	Jerry Irvin, Jr. & Linda Sue Lowther	568/361	2.00	30	10-5	Thaddeus R. & Deborah A. Biedrzycki	349/513	44.73
11	7A-12	Sandra Samples & Janet Triplett	226/578	0.66	31	10-8	David Henderson & Sharley Shortridge	W47/263	44.28
12	7A-13	William J. & Marilee Edna Triplett	264/416	0.33	32	10-7	David Henderson & Sharley Shortridge	W47/263	41.00
13	7A-1	Trevor L. & Marinia M. Tallman	547/710	2.97	33	10-6	BB Farm Investments LLC	594/417	45.00
14	7A-8	Trevor L. & Marinia M. Tallman	431/691	0.08	34	10-9	Charles L. & Laura McGowan, et al	348/320	61.51
15	7A-10	Kenneth G. Hall	555/34	0.53	35	10-23	BB Farm Investments LLC	594/417	66.69
16	7A-8.1	Kenneth G. Hall	555/34	0.16	36	10-24	BB Farm Investments LLC	594/417	220.80
17	7A-2.1	Russell J. & Judith Ann Lough	299/337	1.25	37	10-34	Dale A. & Melanie L. Proctor	642/567	43.55
18	7A-17	Russell J. & Judith Ann Lough	299/337	1.25	38	10-22	Clayton Hill	321/409	15.00
19	7A-11	David Henderson & Sharley Shortridge	W47/263	0.72	39	10-28	Ronald L. Simmons	340/784	42.04
20	7A-3	Michael A. & Tammy L. Mossor	294/487	0.64	40	7A-2	Hope Isenberg	358/449	7.74



FILE NO: 42-54-M-18

DRAWING NO: Martindill Unit 2H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION:

WVDOT, Harrisville, WV

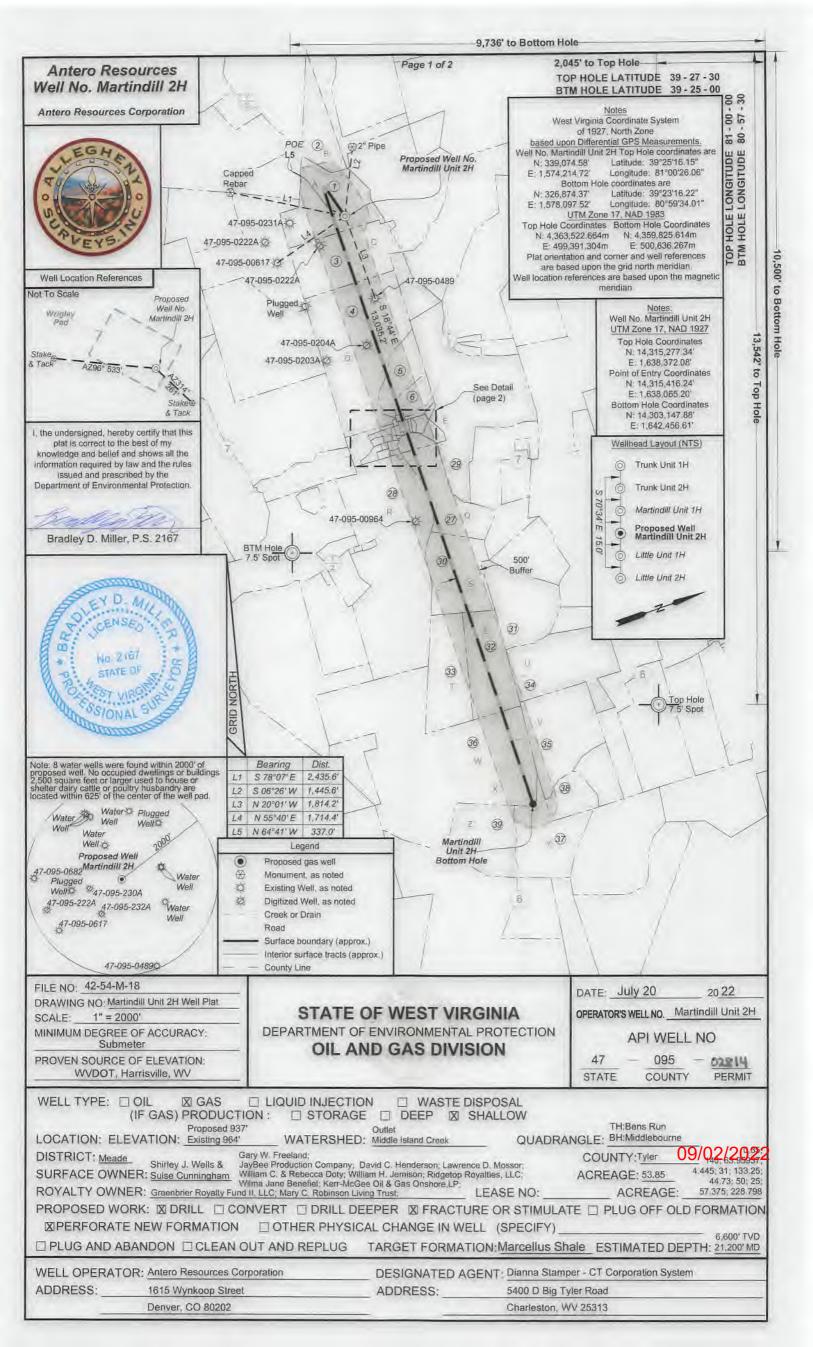
STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE:	July 20	20 22
		Martindill Unit 2H
	API WI	ELL NO

47 095 - 62814 STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTI (IF GAS) PRODUCTION: ☐ STORAGE Proposed 937' LOCATION: ELEVATION; Existing 964' WATERSHE	BE ☐ DEEP ☒ SHALLO Outlet	
	David C. Henderson; Lawrence D. Moss filliam H. Jemison; Ridgetop Royalties, LL Gee Oil & Gas Onshore,LP; Living Trust;	ACREAGE: 53.85 4.445; 31; 133.25; 44.73; 50; 25;
	CAL CHANGE IN WELL (SP	STIMULATE PLUG OFF OLD FORMATION ECIFY) 6,600' TVD
WELL OPERATOR: Antero Resources Corporation ADDRESS: 1615 Wynkoop Street Denver, CO 80202	ADDRESS: 54	anna Stamper - CT Corporation System



Antero Resources Well No. Martindill 2H

Antero Resources Corporation



Page 2 of 2

			Leases		
Α	Greenbrier Royalty Fund II LLC	J	Russell J. Lough, et ux	S	Ridgetop Royalties, LLC
В	Kerr-McGee Oil & Gas Onshore LP	K	Kenneth G. Hall	T	David Quentin Carse
C	Mary C. Robinson Living Trust	L	Michael A. Mossor, et ux	U	Steven L. & Jeral A. McGowan
D	Wilma Jane Benefiel	M	David C. Henderson	V	Arnold L. Schulberg Oil & Gas Trus
F	David C. Henderson	N	Kerr-McGee Oil & Gas Onshore LP	W	JayBee Production Company
F	Jerry Irvin Lowther, Jr., et ux	0	Richard C. Mossor, et ux	X	Lawrence D. Mossor
G	Gary W. Freeland	P	Sherry Snyder	Y	Robert R. Osterland, et ux
Н	Stephen M. Deaton	Q	William C. Doty & Rebecca Doty	Z	Ronald L. Simons
1	Hope Isenberg	R	William H. Jemison		

ID	TM/Par	Owner	Bk/Pg	Acres	ID	TM/Par	Owner	Bk/Pg	Acres
1	7-2	Shirley J. Wells & Susie Cunningham	W41/317	53.85	21	7A-6	Kenneth G. Hall	555/34	0.13
2	4-20.1	Richard W. Barnhart Jr.	213/162	49.74	22	7A-1.1	Thaddeus R. & Deborah A. Biedrzycki	504/359	4.44
3	7-8	John Wells	428/412	52.39	23	7A-5	Jay W. Westbrook & Teresa K. Hill	324/537	0.88
4	7-12	Wilma Jane (Benefiel) Wagner	W35/225	110.30	24	7A-14	Richard C. & Shelly J. Mossor	558/470	0.40
5	7-12.2	Gary W. Freeland	336/530	19.97	25	7A-16	Richard C. & Shelly J. Mossor	58/472	1.00
6	7-12.1	Gary W. Freeland	251/546	8.73	26	7A-4	Sherry Snyder	420/53	1.00
7	7-19.1/.2	Kenneth G. Hall	555/34	0.45	27	7-22	Thaddeus R. & Deborah A. Biedrzycki	581/74	31.00
8	7A-7	Gary W. Freeland	256/480	0.35	28	7-21	Wilma J. Monroe	W75/840	133.25
9	7A-19	Paul & David Frum	W12/154	0.31	29	7-19	Darlene Henderson	W47/263	122.83
10	7A-9	Jerry Irvin, Jr. & Linda Sue Lowther	568/361	2.00	30	10-5	Thaddeus R. & Deborah A. Biedrzycki	349/513	44.73
11	7A-12	Sandra Samples & Janet Triplett	226/578	0.66	31	10-8	David Henderson & Sharley Shortridge	W47/263	44.28
12	7A-13	William J. & Marilee Edna Triplett	264/416	0.33	32	10-7	David Henderson & Sharley Shortridge	W47/263	41.00
13	7A-1	Trevor L. & Marinia M. Tallman	547/710	2.97	33	10-6	BB Farm Investments LLC	594/417	45.00
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16	7A-8.1	Kenneth G. Hall	555/34	0.16	36	10-24	BB Farm Investments LLC	594/417	220.80
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19	7A-11	David Henderson & Sharley Shortridge		0.72	39	10-28	Ronald L. Simmons	340/784	42.04
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FILE NO: 42-54-M-18

DRAWING NO: Martindill Unit 2H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: July 20 20 22

OPERATOR'S WELL NO. Martindill Unit 2H

API WELL NO

47 - 095 - <u>52-14</u>
STATE COUNTY PERMIT

		DELIVER THE PROPERTY OF THE PR
WELL TYPE: OIL S GAS LIQUID INJECT (IF GAS) PRODUCTION: STORAL Proposed 937' LOCATION: ELEVATION: Existing 964' WATERSHI		
DISTRICT: Meade Shirley J. Wells & Gary W. Freeland: JayBee Production Compan William C. & Rebecca Doty;	ny; David C. Henderson; Lawrence D. Mossor; ; William H. Jemison; Ridgetop Royalties, LLC; McGee Oil & Gas Onshore,LP;	COUNTY:Tyler 09/02/2037 ACREAGE: 53.85 4.45; 31; 133.25; 44.73; 50; 25; 44.73; 50; 25; 57.375; 228.798
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL	DEEPER IN FRACTURE OR STIMULA SICAL CHANGE IN WELL (SPECIFY)	6,600' TVD
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AGENT: Dianna Stan	nper - CT Corporation System
ADDRESS: 1615 Wynkoop Street	ADDRESS: 5400 D Big T	yler Road
Denver, CO 80202	Charleston, \	WV 25313

Operator's Well Number

Martindill Unit 2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
/	A: Greenbrier Royalty Fund II, LLC Lease Greenbrier Royalty Fund II, LLC	Antero Resources Corporation	1/8+	0108/0631
/	C: Mary C. Robinson Living Trust Lease Mary C. Robinson Living Trust	Antero Resources Corporation	1/8+	0590/0141
1	<u>D: Wilma Jane Benefiel Lease</u> Wilma Jane Benefiel	Antero Resources Corporation	1/8+	0595/0537
,	G: Gary W. Freeland Lease Gary W. Freeland	Antero Resources Corporation	1/8+	0602/0007
1	E: David C. Henderson Lease David C. Henderson	Antero Resources Corporation	1/8+	0083/0667
/	N: Kerr-McGee Oil & Gas Onshore LP Lease Kerr-McGee Oil & Gas Onshore LP	Antero Resources Corporation	1/8+	0090/0154
/	Q: William C. Doty & Rebecca Doty Lease William C. Doty, et ux	Antero Resources Corporation	1/8+	0591/0241
,	R: William H. Jemison Lease William H. Jemison, a married man dealing in his sole and separate property	Antero Resources Corporation	1/8+	0424/0837
,	Q: William C. Doty & Rebecca Doty Lease William C. Doty, et ux	Antero Resources Corporation	1/8+	0591/0241
/	S: Ridgetop Royalties, LLC Lease Ridgetop Royalties, LLC	Antero Resources Corporation	1/8+	0585/0815
•	E: David C. Henderson Lease David C. Henderson	Antero Resources Corporation	1/8+	0083/0667
	✓ <u>W: JayBee Production Company Lease</u> JayBee Production Company	Antero Resources Corporation	Office of Oil and Gas 1/8+ JUL 28 2022	0166/0358
			·	

WV Department of Environmental Protection

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.

WW-6A1 (5/13)

Operator's Well No.	Martindill Unit 2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

	Lawrence D. Mossor	Antero Resources Corporation	1/8+	0140/0778
/ X: 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

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Office of Oil and Gas

JUL 28 2022

WV Department of Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

•	Antero Resources Corporation	
By:	Tim Rady ()	
Its:	Senior Vice President - Land	

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

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

API No. 47- 095

Date of Notic	ce Certification: 07/26/2022	API No. 4		
			s Well No. Marti	
		Well Pad	Name: Wrigley	Pad
Notice has b	been given:			
Pursuant to th	ne provisions in West Virginia Code §	22-6A, the Operator has provided the re	quired parties v	vith the Notice Forms listed
	tract of land as follows: West Virginia	Easting:	499391.30m	RECEIVED Office of Oil and Gas
State: County:	Tyler	UTM NAD 83 Easting. Northing:	4363522.66m	Office of Oil and Gas
District:	Meade	Public Road Access:	Rock Run Rd	JUL 2 8 2022
Quadrangle:	Bens Run	Generally used farm name:	Wells	JOL DO LUCE
Watershed:	Outlet Middle Island Creek			WV Department of
				Environmental Protection
information re of giving the requirements Virginia Code	equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o	need in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the receiver pursuant to subsection (a), section f this article were waived in writing by ender proof of and certify to the secretary t.	equirement was ten of this arti the surface ov	deemed satisfied as a resulticle six-a; or (iii) the notice wner; and Pursuant to Wes
*PLEASE CHI	erator has properly served the require	_		OOG OFFICE USE ONLY
1. NO	FICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDUC		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY WAS C	ONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECANOTICE OF ENTRY FOR PLAT SUR WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFA	VEY	☐ RECEIVED/ NOT REQUIRED
		(PLEASE ATTACH)	ICE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PUF	BLIC NOTICE			RECEIVED
I 6 NO	TICE OF APPLICATION			☐ RECEIVED

Required Attachments:

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

By:

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

Diana Hoff

Diana

Its: Senior VP of Operations

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mstanton@anteroresources.com

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

day of July

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 2 8 2022

WW-6A (9-13) API NO. 47- 095 OPERATOR WELL NO. Martindill Unit 2H
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: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED METHOD OF DELIVERY THAT REQUIRES A **PERSONAL MAIL** RECEIPT OR SIGNATURE CONFIRMATION **SERVICE** 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: 1509 Maple Avenue Address: Wellsville, OH 43968-1253 Name: Susie Cunningham ☐ COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: 1509 Maple Avenue Wellsville, OH 43968-1253 Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: ___ SURFACE OWNER OF WATER WELL Address: .AND/OR WATER PURVEYOR(s) Name: PLEASE SEE ATTACHMENT Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Office of Oil and Gas Name: Address: JUL 2 8 2022 Address: *Please attach additional forms if necessary WV Department of Environmental Protection WW-6A (8-13) 4709502814 API NO. 47-095

OPERATOR WELL NO. Martindill Unit 2H
Well Pad Name: Wrigley Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A (8-13)

API NO. 47-095

OPERATOR WELL NO. Martindill Unit 2H

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 and Gas 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 2 8 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 -

OPERATOR WELL NO. Martindill Unit 2H

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 2 8 2022

WW-6A (8-13) 47 09 5 0 2 8 1 4

OPERATOR WELL NO. Martindill Unit 2H
Well Pad Name: Wrigley Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana
Email: 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 _____

day of July 202

Notary Public

My Commission Expires

17 Apr 2021

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JUL 2 8 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: Address:

Susie Cunningham 1509 Maple Ave.

1309 Iviapic Avc.

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

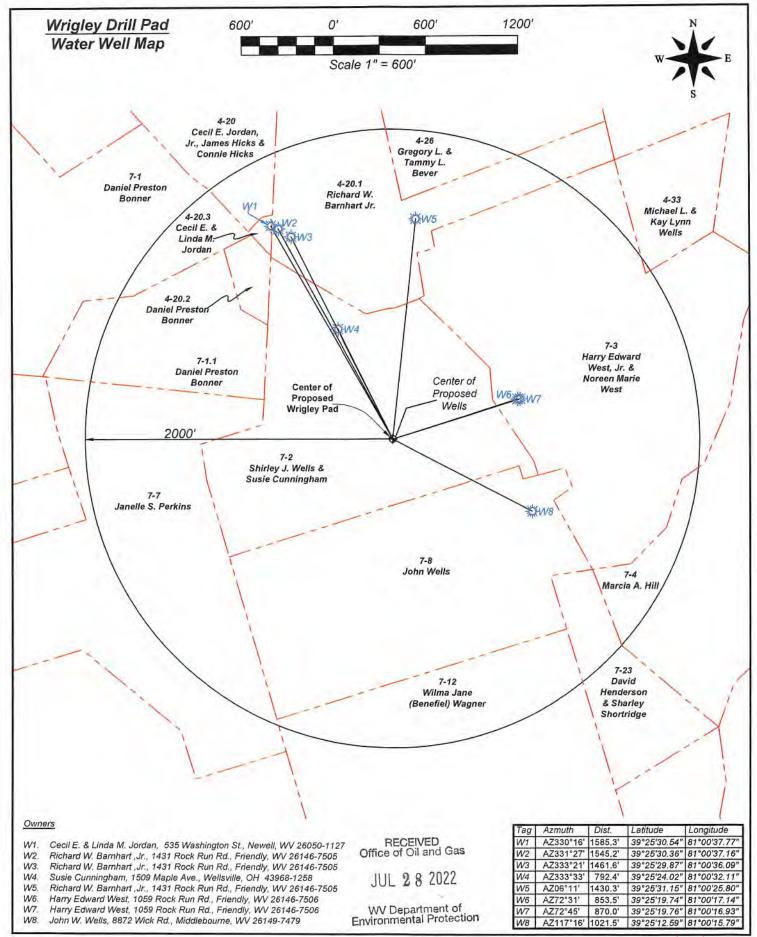
Address:

8872 Wick Rd.

Middlebourne, WV 26149-7479

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Office of Oil and Gas

JUL 2 8 2022



Operator Well No. Martindill Unit 2H Wrigley Pad

4709502814

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		e: 02/03/2022	Notice shall be		Application Filed		permit application.	
Deli	very met	hod pursuant t	o West Virgin	ia Code § 22-6A	-16(b)			
П	HAND		CERTIFIED M	IAIL				
	DELIVE			CEIPT REQUES	TED			
recei drill of th subs and	ipt requesting a hori is subsection ma if availab	sted or hand del izontal well: Pation as of the day be waived in le, facsimile nu	ivery, give the strovided, That notice we writing by the small electrons.	surface owner no otice given purs as provided to the surface owner.	otice of its intent uant to subsection the surface owner: The notice, if requires of the operator	to enter upon to n (a), section to Provided, how uired, shall inc	the surface owner's la en of this article satis wever, That the notic	y certified mail return and for the purpose of sfies the requirements e requirements of this ss, telephone number, sentative.
Nam		ey Wells	Verdices Mead		Name: _	Susie Cunningha	m	
Add	ress: 1509				Address:	1509 Maple Ave		
	Wells	sville, OH 43968-1258	()			Wellsville, OH 439	68-1258	
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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.

WW-6A5 (1/12)

4709502814

STATE OF WEST VIRGINIA 4709 3 U Z DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time I Date of Notic	Requirement: notice share: 07/27/2022	all be provided no Date Permit Ap	plater than the filing oplication Filed: 07/2	date of permit	application.
Delivery met	hod pursuant to West V	/irginia Code § 2	22-6A-16(c)		
■ CERTIF	FIED MAIL		HAND		
	RN RECEIPT REQUEST	TED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice. Notice is here	requested or hand deliver prevalent or the notice reprovided by subsection norizontal well; and (3) e surface affected by oil as required by this section by provided to the SU	ery, give the surfactured by this surfactured by this surfaction ten of A proposed surfactured gas operation shall be given the RFACE OWNER	ace owner whose land absection shall include if this article to a surfa- ace use and compens as to the extent the da to the surface owner a	will be used for le: (1) A copy ace owner whos ation agreemen mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
W. T.	s listed in the records of	the sheriff at the t		Susie Cunninghar	
Name: Shirt Address: 150	ey Wells 9 Mante Ave		Name: Address		
the second of th	Isville, OH 43968-1253		Addiess	Wellsville, OH 439	968-1253
State: County:	the surface owner's land West Virginia Tyler	for the purpose of	UTM NAD 8	Easting: Northing:	499391,30m 4363522.66m
District:	Meade		Public Road		Rock Run Rd
Quadrangle: Watershed:	Bens Run Outlet Middle Island Creek	_	Generally use	ed farm name:	Wells
Pursuant to W to be provide horizontal we surface affect information r	ed by W. Va. Code § 2 ell; and (3) A proposed s ed by oil and gas opera elated to horizontal dril located at 601 57 th Str	22-6A-10(b) to a surface use and contions to the exter ling may be obta	surface owner whose impensation agreement the damages are co- tined from the Secret	e land will be un nt containing ar empensable und ary, at the WV	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 Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Well Operato	W Autoin Business Committee		Address:	2028 W. J. D.	
Telephone:	Antero Resources Corporation (303) 357-7310	ж	Address.	1615 Wynkoop Stre Denver, CO 80202	ret.
Email:	asteele@anteroresources.co	m	Facsimile:	303-357-7315	
	Privacy Notice:	1.0		16	

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.

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JUL 28 2022

WW-6AW (1-12) API NO. 47- 095 OPERATOR WELL NO. Marlindill Unit 2H
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

State:	West Virginia UTM	NAD 83 Easting:	499391.30m
County:	Tyler	Northing:	
District:		c Road Access:	Rock Run Rd
Quadrangle:		rally used farm name:	Wells
Watershed:	Outle! Middle Island Creek		
I TOUGH OTTOO		I OIL LILLOUI	
Please check	the box that applies	FOR EXECUT	TON BY A NATURAL PERSON
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	CE OWNER		
□ SURFA	CE OWNER	Signature:	
□ SURFA		Signature: Print Name:	
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Oil and Gas Privacy Notice:

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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 2H 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,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane Blair

Antero Resources CH, OM, D-6

511, 6111

File

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JUL 2 8 2022

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

l	FRACTURING/STIMULATING INTERVAL		1
	Additive	Chemical Abstract Service Number (CAS #)	
1.	Fresh Water	7732-18-5	
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
З.	Ammonium Persulfate	7727-54-0	
4.	Anionic copolymer	Proprietary	
5.	Anionic polymer	Proprietary	
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	j
7.	Cellulase enzyme	(Proprietary)	
8.	Demulsifier Base	(Proprietary)	
9.	Ethoxylated alcohol blend	Mixture	
10	. Ethoxylated Nonylphenol	68412-54-4	
	Ethoxylated oleylamine	26635-93-8	•
12	. Ethylene Glycol	107-21-1	
13	. Glycol Ethers	111-76-2	
	. Guar gum	9000-30-0	
•	i. Hydrogen Chloride	7647-01-0	
	i. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
	'. Isopropyl alcohol	67-63-0	
18	s. Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2	
ľ). 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	į
27	'. Sodium Hydroxide	1310-73-2	
28	S. Sugar	57-50-1	
29	. Surfactant	68439-51-0	
30	. Suspending agent (solid)	14808-60-7	l
31	. Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7	
32	. Solvent Naptha, petroleum, heavy aliph	64742-96-7	
33	. Soybean Oil, Me ester	67784-80-9	
34	. Copolymer of Maleic and Acrylic Acid	52255-49-9	
35	. DETA Phosphonate	15827-60-8	
36	. Hexamythylene Triamine Penta	34690-00-1	
37	. Phosphino Carboxylic acid polymer	71050-62-9	
38	. Hexamethylene diamine penta	23605-74-5	
39	. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9	
40	. Hexamethylene diamine penta (methylene phosphonic a	acid) 23605-74-5	
41	. Diethylene Glycol	111-46-6	}
42	. Methenamine	100-97-0	DEOLE TO
43	. Polyethylene polyamine	68603-67-8 Of	RECEIVED fice of Oil and Gas
1	. Coco amine	6 1791-14-8	
45	. 2-Propyn-1-olcompound with methyloxirane	38172-91-7	JUL 2 8 2922
		v	W Department of
		Envi	W Department of ronmental Protecti
			l l

WRIGI FY WELL PAD & WATER CONTAINMENT PAD

LOCATION COORDINATES:
ACCESS ROAD ENTRANCE
LATITUDE. 39.423510 LONGITUDE. -81.006405 (NAD 85)
LATITUDE 39.423493 LONGITUDE: -91.006405 (NAD 27)
N. 4083778.39 & 40944483 (UTM 20NE 1) METERS

LATITUDE: 39.421600 LONGITUDE -81.008342 (NAD B3)
LATITUDE: 39.421523 LONGITUDE -81.008510 (NAD 37)
N 4383563.87 E 499281.97 (UTM ZONE 17 METERS)

CENTROID OF PAD
LATITUDE, 38.421315 LONGITUDE: -81.007502 (NAD 83)
LATITUDE, 39.421236 LONGITUDE: -61.007670 (NAD 27)
N 4385532 11 E 489354 28 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION: THE ACCESS ROAD, STAGING AREA, WATER CONTRINMENT PAD AND WELL PAD ARE SEING CONSTRUCTED TO AD IN THIS DEVRLOPMENT OF INDIVIDUAL MARCELIUS SHALE GAS WELLS.

FLOODPLAIN NOTES:
THE PROPOSED SITE IS LOCATED IN FLOOD ZONE "X" PER FEMA MAP NUMBERS #040P5CD125C.

MISS UTILITY STATEMENT.

ANTERO RESOURCES COMPORATION WILL SOMEY MESS UTILITY OF WEST VIRGINIA POR THE LOCATING OF CONTRACTOR PROOF TO THE START OF CONSTRUCTION FOR HIS PRODUCT.

BULLIONINGER FORMALL ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENGROACHMENT PERMIT (FORM MM. 109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMERCEMENT OF

ENVIRONMENTAL NOTES:
STREAM AND WETLAND BLINEATIONS WERE PERFORMED IN SEPTEMBER, 2021 BY ALLSTAR ECOLOGY TO
STREAM AND WETLAND BLINEATIONS WERE PERFORMED IN SEPTEMBER, 2021 BY ALLSTAR ECOLOGY TO
STREAM FOR THE STREAM CORPS OF INCINEERS (URACE) AND OR THE WEST WEIGHL DESERVATION PURVIEW
OF THE U.S. ARM CORPS OF INCINEERS (URACE) AND OR THE WEST WEIGHL DESERVATION AND
WAS PREPARED BY ALLSTAR ECOLOGY AND SUBMERZES THE RESULTS OF THE FITLED DELINEATION THE
MAP DOES NOT, IN ANY WAY REPRESENT A JURISDICTIONAL DETERMINATION OF THE INDIVIDUAL BURSTS OF
MATERIA AND STREAM FOR THE WEST BETT HE WEST OF THE WEST IT IS STREAMED.

COMPERATION OF THE BURNEATION HOWN OR THIS ECHREL FROM THE STREAMED FROM THE
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OF THE U.S. INCLUDING WELFARD THEM CORDINERS.

GEOTECHNICAL NOTES:
A SURBURACE INVESTIGATION OF THE PROPUSED SITE WAS PREFUNING BY PENNSYLVANIA SOIL &
BOCK, INC. ON APRIL 10-19, COID. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC.
DATED JUNE 6. 2018. REVISED SEPTEMBER 22, 2021. REPLECTS THE RESULTS OF THE SUBSURFACE
BYESTIGATION. THE ENTERTAINON AND RECOMMENDATIONS CONTAINED IN THIS REPORT WEST USED
IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE IN THE SUBSURFACE IN THE SUBSURFACE OF THE SUBSURFA

PROJECT CONTACTS:

OPERATOR: ANTERO RESOURCES CORPORATION 535 WHITE OAKS BLAD BRIDGEPORT, WV 28230 PHONE: (304) 842-4100 FAX: (304) 842-4100

ELI WAGDNER ENVIRONMENTAL ENGINEER & REGULATORY MANAGER REGULATORY MANAGER
OFFICE: (304) 842-4066 CELL (304) 476-9770 ENVIRONMENTAL.

DIANA HOPF SYP OPERATIONS OFFICE: (303) 357-6904

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

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

JIM WILSON - LAND AGENT OFFICE: (204) 842-4419 CELL: (304) 871-2708

APPROVED WVDEP OOG

8/29/2022

ENGINEER/SURVEYOR:
NAUTUS ENGINEERING, INC.
CYRUS S. KUMP. PP - PROJECT
MANAGER/ENGINEER
DFFICE: (688) 662-4185 CELL: (540) 686-6747

ENVIRONMENTAL:
ALLSTAR ECOLOGY, LLC
RYAN L. WARD - ENVIRONMENTAL SCIENTIST
(866) 213-2666 CELL: (304) 692-7477

AMROS NUYLLEE - CONSTRUCTION MANAGER
CELL: (304) 842-4191 GEL (304) 827-7405 GEPTECHNICAL:
PENNSTAMIA SOL & ROCK, INC.
PENNSTAMIA SOL & ROCK,

- THERE ARE NO LAKES, PORDS, OR RESERVOIRS WITHIN 10G FEET OF THE WELL PAD AND LOC. THERE ARE PERSONNEL OF STREAMS & WETLAND INPACTS THAT WILL SEED TO BE PERSONNELS OF THE AREA OF THE WELL SEED TO BE
- 2 THERE ARE NO NATURALLY PRODUCING IROUT STREAMS WITHIN 360 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 EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250
 FEET OF THE WELL(S) DEING DRILLED.
- 5. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEST WITHIN 625 FEST OF THE CENTER OF THE WELL 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 SITE

WEST VIRGINIA COUNTY MAP

(NOT TO SCALE)

REPRODUCTION NOTE

THESE PLANS WEST ITHEATED FOR COLOR PLOTTING AND ANY RESPONSION OF GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF HERMANDON AND HOULD NOT BE USED FOR CUSSIFICATION PURPOSES.

DESIGN CERTIFICATION:
THE DRAWNES, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS
ATTACHED HERROTO HAVE BERN PREPARED IN ACCORDANCE WITH
THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF
ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-8.

HESE PLANS WERE CREATED TO BE PLOTTED ON 22734 (ANSI D)
PAPER HALF SCALE DRAWDINGS ARE ON 117317 (ANSI B) PAPER



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

- CONSTRUCTION AND EAS CONTROLS NOTES
 LEGEND
 MATTER
 M

WRICLEY LIMITS OF DISTURBANICE A	REA (AC)
Total Site	
Access Road "A" (1576)	4.61
Staging Area	0.75
Well Pad	10.35
Excess/Topsoil Material Stockpiles	12.74
Total Affected Area	28.45
Total Wooded Acres Disturbed	16.80
Impacts to Shirley J. Welle & Susir Conningham Raiph D. Welle Clin G. Wells TM 7	
Access Road "A" (1576)	4.61
Staging Area	0.75
Well Pad	10.35
Excess/Topsoil Material Stockpiles	12.74
Total Affected Area	28.45
Total Wooded Acres Disturbed	15.80

West Name	NAD 27	NAC 37 Lat & Long	MAD 83 UTM (METERS) ZONE 17	NÃO 13 Let & Long
		Per	mitted Location	The second
Trunk	N 339039 62	LAT 39-25-16 2920	N 4383527.00	LAT 39-25-16 (4992
DMT 1H	E 1574172:28	LONG-81-00-20-8074	E-490378-30	LCNG-81-00-28 0018
Trunk	N 339064,54	LAT 39-25-16 2452	N 4303525.55	LAT 12-25-16-5223
UNIT 2H	E 1574195 43	LONG-#1-00-28 4280	E 409382 83	LCNG -81-00-25-8205
Martindill	N 339079 96	LAT 30-35-16 1983	N 4363624.11	LAT 39/25-16 4754
UNIT TH	E 1574200.57	LONG 41-03-25-2447	E 49G396.97	LCN/3-81-00-29 6391
Marrinditt	N 339074 56	LAT 39-25-16.1514	N 4363522.66	LAT 39-25-18 4285
UNIT 2H	E 1574214 72	LONG #1-00-25.0833	E 499391 30	LCNG-81-09-25-4578
Little	IN 339059 50	LAT 39-25-16 104E	N 4363021.22	(AT 34-25-16.3817
UNIT 1H	E 1574229.87	LONG 411-00-25 (MIZO	E 496395.84	LONG -81-05-25-2784
Linte	N 339084 62	LAT 39-25-16 (677	N 4363519.77	LAT 39-25-10.3345
UNIT 2H	E 1574343 (2)	LONG 41-30-25 7006	E 493309.08	LCWG-41-00-25 0951
Dathow	N 338145.72	LAT 39-25-15 ROW!	14 4363542 79	LAT 32-25-17.0912
UNIT 1H	E 1573910 90	LONG-8100-29-9485	E 400298.41	LONG-81-00-29:3430
Outlook	N 339141 07	LAT 39-25-16 TB05	N 4363541.45	LAT 39-25-17:0378
UNIT 2H	E 1573025 35	LONG -81-00-29 7656	E 499302 78	LCNG 41-00-29 1003
Rada	N 339135.41	LAT 39-25-10 7108	N 4303540 10	LAT 39-25-16 \$939
DWIT-TH	E 1572930.51	LONG-R1-03-29-5831	E-495337.15	LCN3-81-00-28-9777
Rata	N 309131.75	LAT 39-25-16 6732	N 406353675	LAT 39-25-16 9503
LIMIT 2H	E 1973963 77	1,0165 -81-03-29 6006	E-499311 A1	LCNG-81-00-28 7960
Varigley	N 339189.15	LAT 30-25-17-0700	N 4363550.93	LAT 38-25-17-3500
UNIT SV	E 1574108 93	LONG-61-03-27,4600	E 400357.08	LCNG 81-00-26-8500
Proposed Well's	Pad Elevation	#17.0		

WRIGLEY WETLAND (MPACT (SQUARE FEET)				
Wetland and Impact Cause	FRE(SF)	Total Impact (SF)	Total Impact (AC)	
GA: Welland 12 (Access Road)	70	70	0.002	
ASE Wetend 1 (Access Road)	1,593	1,593	0.04	

WRIGHEY PE	RENNIAL S	TREAM IMPACT	LINEAR FEET	
			Temp. Impacts	
Stream and Impact Cause			Contrals (LF)	TIED.
GAI Stream 1 (Access Road)	65	0	34	99

	Permanent Impacts		Temp Impacts	Total Impac
Stream and Impact Cause	Culvert FR (LF)	Structures (LF)	Cofferdam/ E&S Controls (LF)	(LF)
ASE Stream 10 (Access Road)	37	16	26	81
GAI Stream 35 ASE Stream 9 (Access Road)	89	45	22	156



RE	022 REVISE	
REVISION	REVISED PER WELLS	



WATER CONTAINMENT PAD MEADE DISTRICT COUNTY, WEST VIRGINIA WRIGLEY WELL PAD &



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

