

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, April 13, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for FLEETWOOD 2H 47-095-02731-00-00

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: FLEETWOOD 2H

Farm Name: ANTERO RESOURCES CORP.

Chief

Martin

U.S. WELL NUMBER: 47-095-02731-00-00

Horizontal 6A New Drill Date Issued: 4/13/2021

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

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

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

1) Well Operato	or: Antero	Resources	Corpora	494507062	095 - Tyler	Union	Middlebourne 7.5'
-, F				Operator ID	County	District	Quadrangle
2) Operator's W	Vell Numbe	r: Fleetwoo	d Unit 2H	Well P	ad Name: Roma	Lou Pad	
3) Farm Name/	Surface Ow	ner: Antero	Resources	Corp. Public Ro	oad Access: Plea	asant Ridg	e Road
4) Elevation, cu	ırrent groun	nd: <u>883'</u>	El	evation, propose	d post-constructi	on:	
5) Well Type	(a) Gas	X	_ Oil _	Un	derground Storag	ge	
	Other						
	(b)If Gas	Shallow	<u>X</u>	Deep			
		Horizontal	<u>X</u>				DMH
6) Existing Pad	: Yes or No	Yes					Dm H 3-10-21
	•		• •	ipated Thickness ess- 55 feet, Assoc			•
8) Proposed To	tal Vertical	Depth: 650	00' TVD				
9) Formation at	Total Vert	ical Depth:	Marcellus	3			
10) Proposed T	otal Measur	red Depth:	15900' M	D			
11) Proposed H	orizontal L	eg Length:	6691'				
12) Approxima	te Fresh Wa	ater Strata D	epths:	158'			
13) Method to I	Determine I	Fresh Water	Depths:	47-095-00912-0	000		
14) Approxima	te Saltwater	r Depths: 1	678'				
15) Approxima	te Coal Sea	m Depths:	483'				
16) Approxima	te Depth to	Possible Vo	id (coal m	ine, karst, other):	None Anticipa	ted	
17) Does Propo	sed well lo	cation contai	n coal sea	ms			
directly overlying				Yes	No	X	
(a) If Yes, pro	vide Mine	Info: Name	e:				
-		Dept	h:				
		Seam	 1:			250	EIVED Gas
		Own	er:			Office of	Oil and
			-			MAR	19 505
						, MI	Department of Department of Imental Protection
						Enviror	umei ira.

Page 1 of 3

WW-6B (04/15) API NO. 47- ⁰⁹⁵ OPERATOR WELL NO. Fleetwood Unit 2H
Well Pad Name: Roma Lou 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	H-40	94#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300	300	CTS, 574 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	15900	15900	3965 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

340-21 Jm 4

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"	0.438"	1530	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"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		RECEIVED Gas
		Of	RECEIVED Gas

MAR 1 5 2021

WV Department of Environmental Protection

WW-6B (10/14)

API NO. 47- 095

OPERATOR WELL NO. Fleetwood Unit 2H

Well Pad Name: Roma Lou Pad

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

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

3-10-21 DMH

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): 21.14 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 12.19 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

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.

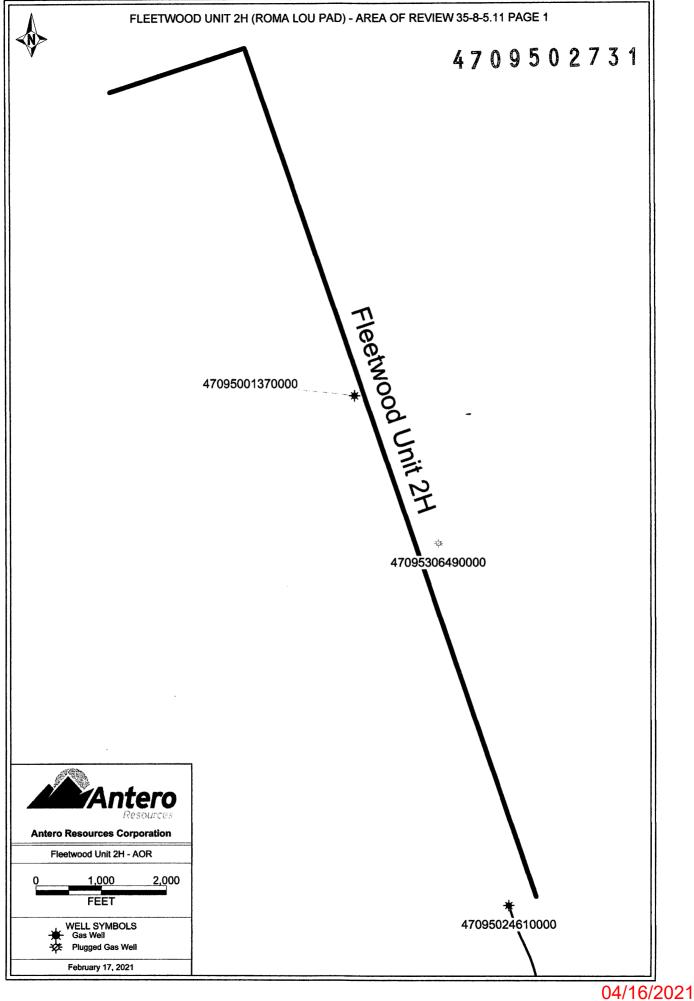
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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 freet 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.

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WW-9 (4/16)

API Number 47 -	095	-
Operator's	Well No.	Fleetwood Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name Antero Resources Corporation OP Code 4948	507062
Watershed (HUC 10) Outlet Middle Island Creek Quadrangle Middleboume 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	✓ No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No plt will be used at this site (Drilling and Flowback Fluids will be stored in tan	ks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No If so, what ml.? No	'A Dayl
Proposed Disposal Method For Treated Pit Wastes:	 DmH 3-10-a
Land Application Underground Injection (UIC Permit Number *UIC Permit # will be provide Reuse (at API Number Future permitted well locations when applicable. API# will be provided.	d on Form WR-34
Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfil	
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsit	e and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	Surface - Air/Freshwater, Intermediate -
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks,	removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number?Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Pe	ffill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or as West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATTON August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental provisions of the permit are enforceable by law. Violations of any term or condition of the general law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with tapplication form and all attachments thereto and that, based on my inquiry of those individe obtaining the information, I believe that the information is true, accurate, and complete. I ampenalties for submitting false information, including the possibility of fine or imprisonment.	l Protection. I understand that the ral permit and/or other applicable he information submitted on this uals immediately responsible for
Company Official Signature Gretchen Kohler	
Company Official (Typed Name) Gretchen Kohler	RECEIVED Office of Oil and Gas
Company Official Title Senior Environmental & Regulatory Manager	MAR 1 5 2021
Subscribed and sworn before methis day of MMOM, 20	W Department of Environmental Protection
My commission expires 3 3 2022	MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666
<u> </u>	Y COMMISSION EXPIRES MARCH 13 2022 021

Operator's Well No. Fleetwood Unit 2H

Proposed Revegetation Treatment: A	Proposed Revegetation Treatment: Acres Disturbed 21.14		Prevegetation pl	H
Lime 2-4 To	ns/acre or to correct to pH	6.5		
Fertilizer type Hay or straw of	or Wood Fiber (will be used to	where needed)		
Fertilizer amount 500	lb	s/acre		
Mulch 2-3	Tons/a	acre		
Main Access Road (4.31 acres	s) + Access Road 2 (1.05 acres) + We		poil Pile I (1.23 acres) + To	psoil (2.36 acres) = 21.14 Acres
	<u>See</u>	d Mixtures		
Temporary			Perma	nnent
	bs/acre	0	Seed Type	lbs/acre
Annual Ryegrass	40	Crowny		10-15
Field Bromegrass	40	Tall Fe	scue	30
See attached Table IV-3 for additional seed typ	pe (Roma Lou Pad Design)	See attached	Table IV-4A for additional	seed type (Roma Lou Pad Design
*or type of grass seed requeste	d by surface owner	*or type of	grass seed requ	ested by surface owner
Maps(s) of road, location, pit and proprovided). If water from the pit will bacreage, of the land application area.	be land applied, include di			
Maps(s) of road, location, pit and proprovided). If water from the pit will be acreage, of the land application area. Photocopied section of involved 7.5'	oe land applied, include di	mensions (L x V		d dimensions (L x W), and
Maps(s) of road, location, pit and proprovided). If water from the pit will bacreage, of the land application area. Photocopied section of involved 7.5' Plan Approved by:	oe land applied, include di	mensions (L x V	V x D) of the pit, and	d dimensions (L x W), and
Maps(s) of road, location, pit and proprovided). If water from the pit will be acreage, of the land application area. Photocopied section of involved 7.5' Plan Approved by:	topographic sheet.	mensions (L x V	V x D) of the pit, and	d dimensions (L x W), and
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Maps(s) of road, location, pit and proprovided). If water from the pit will be acreage, of the land application area. Photocopied section of involved 7.5' Plan Approved by: Comments:	topographic sheet.	Date:	X x D) of the pit, and	d dimensions (L x W), and

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 Congor 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

RECEIVED
Office of Oil and Gas

MAR 1 0 2021

WV Department of Environmental Protection 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

MAR 1 0 2021

WV Department of Environmental Protection



911 Address 5082 Sellers Road Middlebourne, WV 26149

Well Site Safety Plan Antero Resources

Well Name: Roma Lou Unit 5H, Fleetwood Unit 1H-2H, Patty Unit 1H-2H & Roy Unit 1H-2H

Pad Location: ROMA LOU PAD

Tyler County/Union District

GPS Coordinates:

Donit

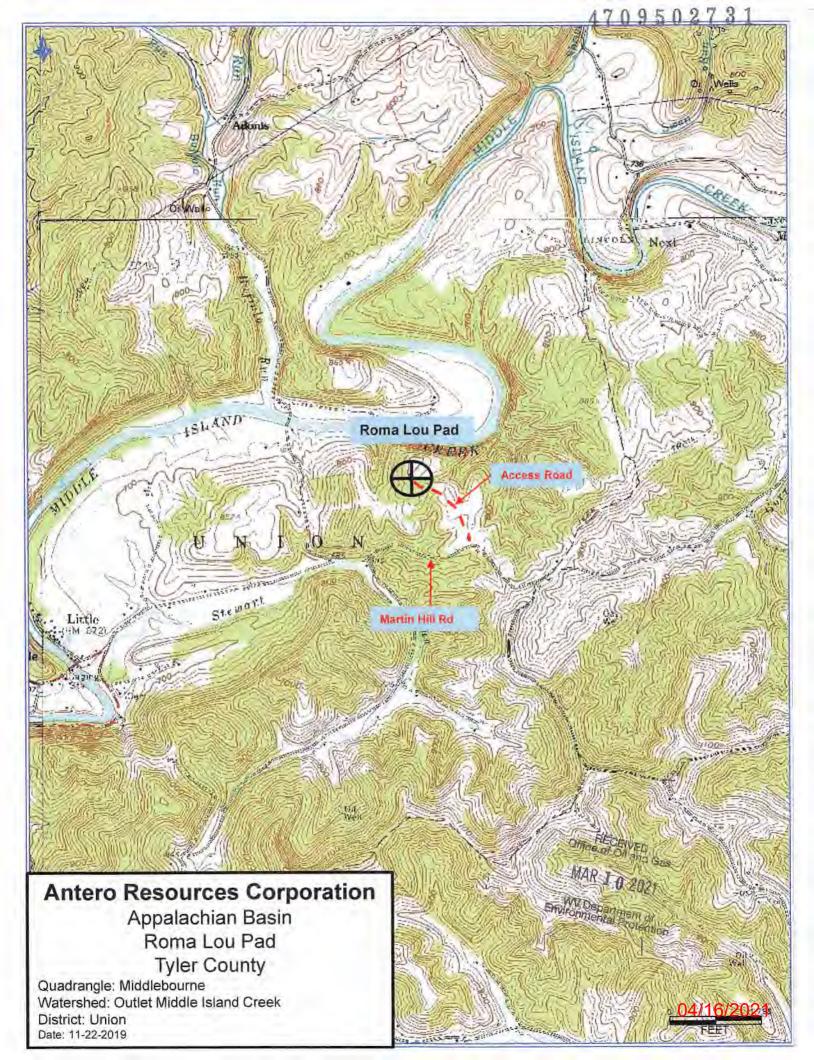
Entrance - Lat 39°48′13.64″/Long -80°96′94.84″ (NAD83) Pad Center - Lat 39°48′54.03"/Long -80°97′37.72" (NAD83)

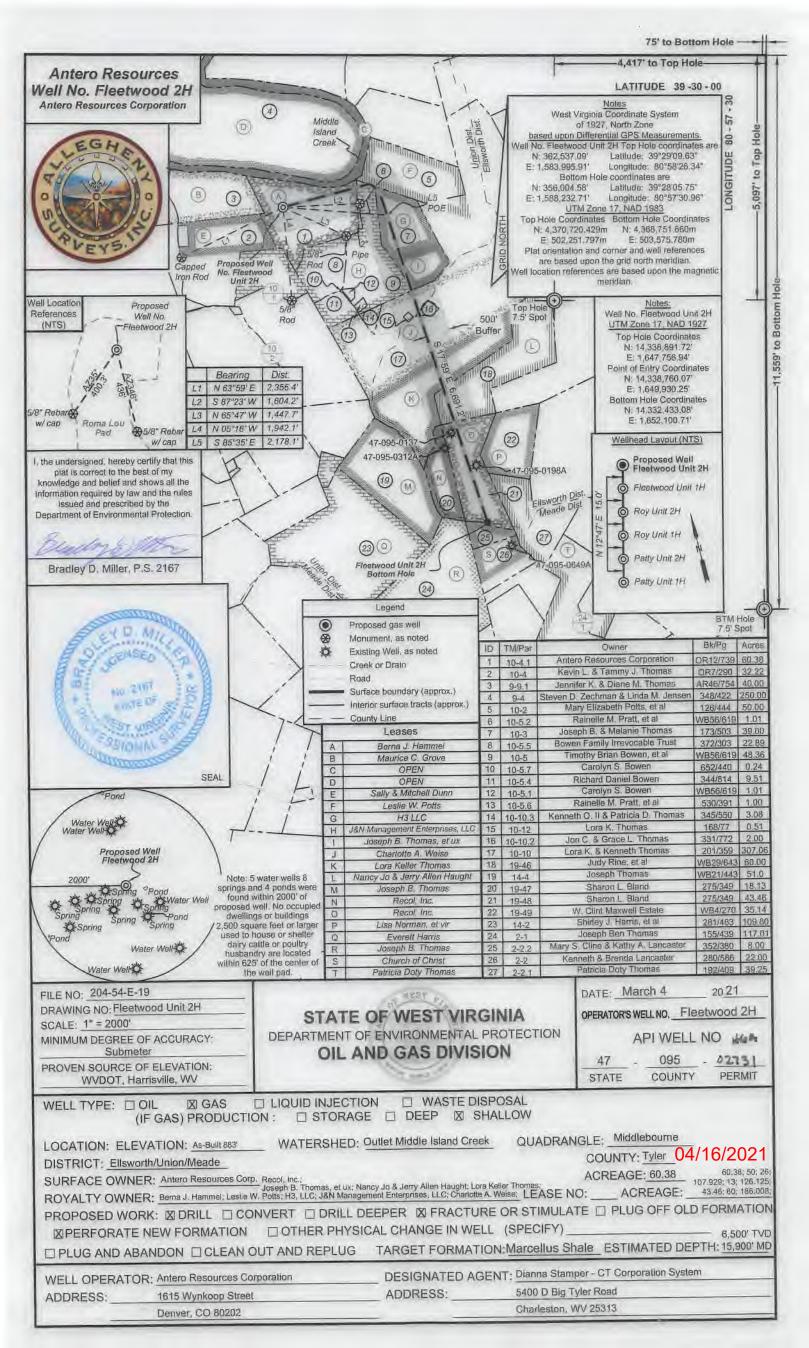
Driving Directions:

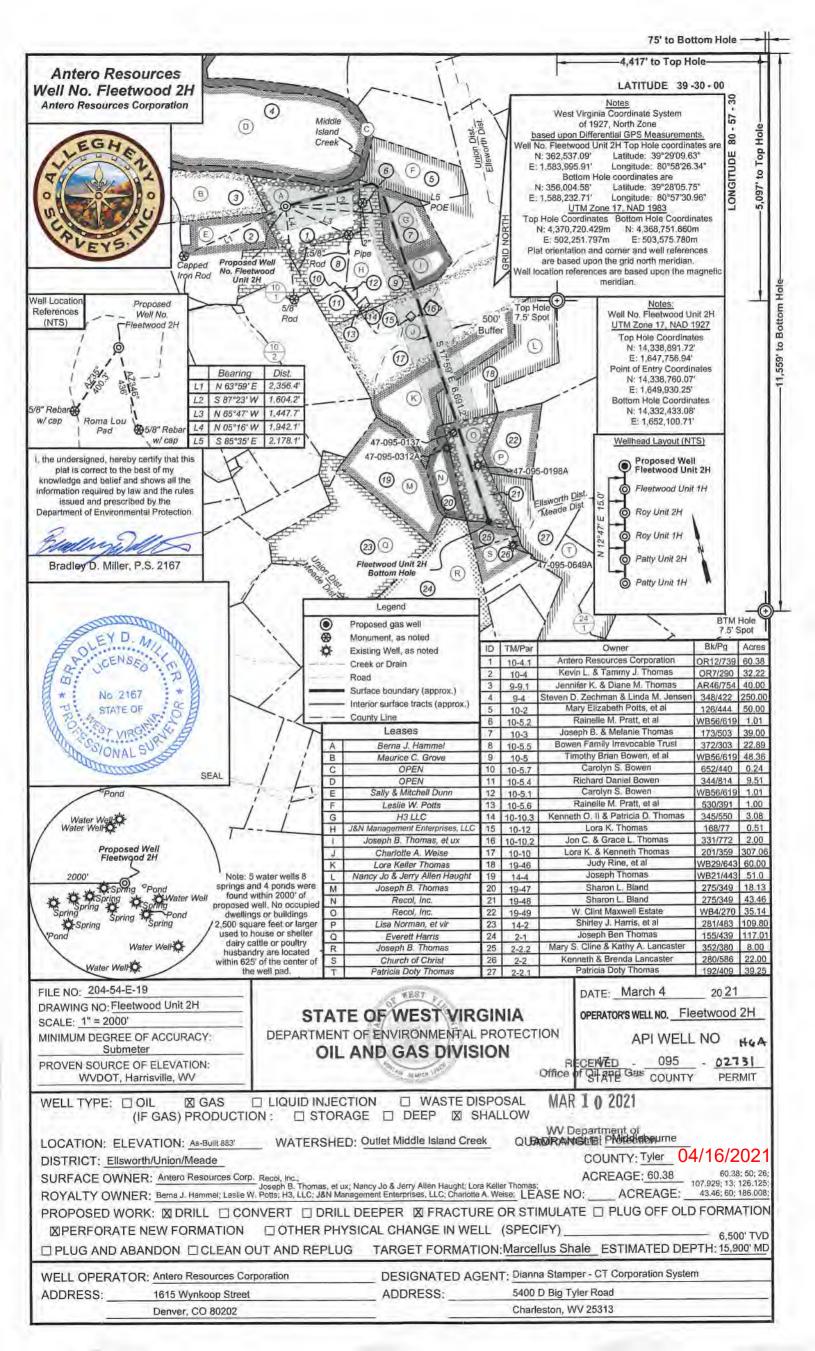
From Middlebourne: head northeast on WV-18 N/Main Street toward Court Street/Dodd Street for 0.9 miles - take Sellers Road & Martin Hill Road to Allen Run Road/Pleasant Ridge Road for 5.4 miles - turn left onto Co Road 2/4 for 164 feet - continue onto Sellers Road for 400 feet - turn left to stay on Sellers Road for 3.4 miles - continue onto Allen Run Road/Archer Hill Road/Pleasant Ridge Road for 0.3 miles - continue onto Martin Hill Road for 0.8 miles -RECEIVED Gas continue onto Sellers Road 459 feet - continue onto Allen Run Road/Pleasant Ridge Road for 0.3 miles - lease road will be on your right. MAR 1 5 2021

Alternate Route:

From Sisterville: head southeast on Diamond Street toward Wells Street for 308 feet - turn Department of right onto WV-2S/Chelsea Street for 0.9 miles - turn right to stay on WV-2 S for 0.3 miles within left onto Cow House Road for 3.9 miles - merge onto Co Road 10 for 1.9 miles - continue onto Allen Run Road/Pleasant Ridge Road 0.1 miles - turn left to stay on Allen Run Road/Pleasant Ridge Road for 0.1 miles - lease road will be on your left.







WW-6A1 (5/13)

Operator's Well No.	Fleetwood Unit 2H
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Recol Inc. Lease				
	Recol Inc.	Antero Resources Corporation	1/8+	0593/0658

*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:

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

MAR 1 0 2021

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.

"Co-tenancy utilization – At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act

Well Operator: Antero Resources Corporation

By: Tim Rady

VP of Land

Page 1 of 1

Operator's Well Number

Fleetwood 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
Berna J. Hammel <u>Lease</u> Berna J. Hammel	Antero Resources Corporation	1/8+	0392/0778
J&N Management Enterprises Lease (TM 10 PCL 5) J&N Management Enterprises	Antero Resources Corporation	1/8+	0591/0235
<u>Leslie W. Potts Lease</u> Leslie W. Potts	Antero Resources Corporation	1/8+	0585/0556
H3 LLC Lease H3 LLC	Antero Resources Corporation	1/8+	0612/0750
Joseph B. Thomas Lease Joseph B. Thomas	Antero Resources Corporation	1/8+	0079/0461
J&N Management Enterprises Lease (TM 10 PCL 5.3) J&N Management Enterprises	Antero Resources Corporation	1/8+	0591/0235
Charlotte A. Weise Lease Charlotte A. Weise	Antero Resources Corporation	1/8+	0670/0421
Lora Keller Thomas Lease Lora Keller Thomas	Antero Resources Corporation	1/8+	0062/0581
Nancy Jo & Jerry Allen Haught Lease Nancy Jo & Jerry Allen Haught	Antero Resources Corporation	RECEIVED Office of Oil andBeas	0579/0810
		MAD 1 A 2021	

MAR 1 0 2021

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.

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

RE: Fleetwood Unit 2H

Quadrangle: Middlebourne 7.5'

Tyler County/Ellsworth District, West Virginia

Mr. Martin:

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

Sincerely,

Haley West

Haley West Senior Landman



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

Date of Notic	ce Certification: 3/4/21			Well No. Fleetwood Unit 2H	
			Well Pad I	Name: Roma Lou Pad	
Notice has l	oeen given:				
Durenant to th	ne provisions in West Virginia Code	8 22-6A the Operator has pro	wided the red	mired parties with the Notice	Forms listed
Tursuam to u	ic provisions in trest this ind code	S LL of i, the Operator has pro	Videa me re	dent and brun and the second	
	tract of land as follows:	3 22 ort, the operator has pro	yvided inc re-	dance beautiful to the state of	
			Easting:	502251,797m	V
below for the	tract of land as follows:	UTM NAD 83			0, 10,000
below for the State:	tract of land as follows: West Virginia		Easting: Northing:	502251.797m	
below for the State: County:	tract of land as follows: West Virginia Tyler	UTM NAD 83	Easting: Northing: cess:	502251.797m 4370720.429m	

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

Pursuant to West Virginia Code § 22-6A, the Op that the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	erator has attached proof to this Notice Certification d parties with the following:	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SURV	TEY or NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
3. NOTICE OF INTENT TO DRILL or	□ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF □ WRITTEN WAIVER PROBLEM OWNER (PLEASE ATTACH) MAR 1 0 2021	RECEIVED/ NOT REQUIRED
■ 4. NOTICE OF PLANNED OPERATION	WV Department of Environmental Protection	RECEIVED
■ 5. PUBLIC NOTICE	Environmental Protection	RECEIVED
■ 6. NOTICE 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 C

Its: Senior VP of Production

Telephone: 303-357-7223

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mgriffith@anteroresources.com

NOTARY PUBLIC

STATE OF COLORADO NOTARY ID 20184011666

MY COMMISSION EXPIRES MARCH 13, 2022

Subscribed and sworn before me this

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.

Office of Oil and Gas

MAR 1 0 2021

Env. of Charles Protection

WW-6A (9-13) 470959502731
API NO. 47-095 9502731
OPERATOR WELL NO. Fleetwood Unit 2H
Well Pad Name: Roma Lou Pad

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

Not	ice Time Requiremen	it: notice shall be provi	ided no later than	the filing date	of permit application.	
	2/11		215	=1-1		
Dat	e of Notice: 2/0/2	Date Permit Applica	tion Filed:	12		
	ice of:					
HUL	ice or.					
V	PERMIT FOR ANY	CERTIF	CATE OF APPI	ROVAL FOR TH	TF.	
IV.						
	WELL WORK	CONST	RUCTION OF A	N IMPOUNDM	ENT OR PIT	
Deli	ivery method pursua	nt to West Virginia C	ode 8 22-6A-10	(b)		
Deli	rery memou parsua		3 44 344			
	PERSONAL	REGISTERED	✓ METHO	DD OF DELIVE	RY THAT REQUIRES A	
	SERVICE	MAIL	RECEIL	PT OR SIGNAT	URE CONFIRMATION	
certi regis sedi the soil a desco oper more well imp have prov prop substreece prov Code	ificate of approval for the stered mail or by any moment control plan requisurface of the tract on ward gas leasehold being cribed in the erosion and rator or lessee, in the expectation of the surface traction of the surface traction of the surface traction of the water well, spring out of water for consumptoosed well work activities action (b) of this section of the sheriff requivision of this article to the R. § 35-8-5.7.a requi	the construction of an impethod of delivery that resired by section seven of which the well is or is produced by the proposed sediment control plander the tract of land on where of record of the section is to be used for the problem of the section where supply source location by humans or dome by is to take place. (c)(1) on hold interests in the larged to be maintained purche contrary, notice to a	poundment or pit quires a receipt of this article, and the oposed to be local sed well work, if submitted pursual which the well pro- urface tract or trace placement, constru- this article; (5) A cated within one of estic animals; and If more than three ands, the applicant suant to section et lien holder is not rator shall also pro-	as required by the resignature confine well plat to each ted; (2) The owner the surface tract is not to subsection (of the opposed to be drilled to subsection, enlargement, enlargement, enlargement, of the operator of the tenants in comment may serve the desight, article one, of the operator of the operator of the tenants in comment that is not the tenants in comment of the operator of the opera	the applicant for a permit for any well was article shall deliver, by personal service mation, copies of the application, the eroth of the following persons: (1) The owners of record of the surface tract or tracts as to be used for roads or other land disture), section seven of this article; (3) The coed is located [sic] is known to be underlated and gas leasehold being developed by int, alteration, repair, removal or abandon or water purveyor who is known to the addred feet of the center of the well pad who from an antural gas storage field within who on or other co-owners of interests described becaments required upon the person described by the control of the surface of the surface of this code. (2) Notwith when, unless the lien holder is the landow the Safety Plan ("WSSP") to the surface of this rule.	e or by sion and ers of record of overlying the rbance as oal owner, in by one or the proposed ment of any applicant to hich is used to hich the bed in fibed in the astanding anymer. W. Va.
2	Application Notice [☑ WSSP Notice ☑ E&	&S Plan Notice	☑ Well Plat No	otice is hereby provided to as	
_	URFACE OWNER(s)	/	A. C.	COAL OWN	ER OR LESMAR 1 0 2021	
	ne: Kevin L. Thomas				ARATIONS ON RECORD WITH COUNTY	
Add	dress: 4652 Saltwell Road		_	Address:	Em WV Department of	
	Bridgeport, WV 26330	/			Em invental for can	
Nar	ne: Antero Resources Corp.	1		COAL OPER	ATOR	
Add	dress: 1615 Wynkoop Stree	t		Name: NO DECL	ARATIONS ON RECORD WITH COUNTY	
	Denver, CO 80203			Address:		
ИS	URFACE OWNER(s)	(Road and/or Other D	isturbance)			
153 15	ne: Kevin L. Thomas		G3746 VA13 V	□ WATER PURVI	EYOR(s)/OWNER(s) OF WATER WELL,	
	dress: 4652 Saltwell Road	V	-		HER WATER SUPPLY SOURCE	
2100	Bridgeport, WV 26330		_	Name: NONE IDE		
Mar	ne: Antero Resources Corp.					
			-	Address:		
	dress: 1615 Wynkoop Stree	u.	-0 .	m Obus Lacs	OF CHARLES IN C.	n puri s
_	ver, CO 80203	4	<u></u>	집 그 사람이 가게 하는데	OF ANY NATURAL GAS STORAGE	E FIELD
_		(Impoundments or Pit				
Nat			-	Address:		
Add	dress:		_			
				*Please attach a	additional forms if necessary	

API NO. 47-095 0 9 5 0 2 7 3 1 OPERATOR WELL NO. Fleetwood Unit 2H

OPERATOR WELL NO. Fleetwood Unit 2H
Well Pad Name: Roma Lou 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.

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Office of Oil and Gas

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 (304-9244) of by Uzsiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

WV Department of Environmental Protection

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. 47-4709502731

OPERATOR WELL NO. Fleetwood Unit 2H

Well Pad Name: Roma Lou 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:

RECEIVED
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

MAR 1 0 2021

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) 4709502731

OPERATOR WELL NO. Fleetwood Unit 2H

OPERATOR WELL NO. Fleetwood Unit
Well Pad Name: Roma Lou 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.

Office of Oil and Gas

MAR 1 0 2021

WV Department of Environmental Protection

4709502731

WW-6A (8-13)

API NO. 47- 095 OPERATOR WELL NO. Fleetwood Unit 2H
Well Pad Name: Roma Lou Pad

Notice is hereby given by: Diana O. Hoff

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7223 Email: mgriffith@anteroresources.com

223

Denver, CO 80202 Facsimile: 303-357-7315

Address: 1615 Wynkoop Street

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.

MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666 MY COMMISSION EXPIRES MARCH 13, 2022 Subscribed and sworn before me this

My Commission Expires

Notary Public

Office of Oil and Gas

MAR 1 0 2021

WV Department of Environmental Protection

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

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

Notice Time F Date of Notice		otice shall be provided at Date Per	mit Application Filed: 03/05/2021	
Delivery meth	od pursuant to	West Virginia Code § 2	2-6A-16(b)	
☐ HAND		CERTIFIED MAIL		
DELIVE		RETURN RECEIPT REQ	UESTED	
receipt request drilling a horiz of this subsect subsection may	ted or hand delive zontal well: Pro- ion as of the dat y be waived in v	very, give the surface own povided, That notice given the notice was provided writing by the surface own	er notice of its intent to enter upon the pursuant to subsection (a), section to to the surface owner: <i>Provided</i> , how	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is her	eby provided	to the SURFACE OW		1
Name: Antero Re	esources Corp.		Name: Kevin L. Thomas	V
Address: 1615	Wynkoop Street		Address: 4652 Saltwell Road	d ·
Denver, CO 80203	3		Bridgeport, WV 26330	
Pursuant to W	est Virginia Cod		is hereby given that the undersigned rizontal well on the tract of land as for	well operator has an intent to enter upon bllows:
Pursuant to W the surface ow State:	est Virginia Cod			
Pursuant to W the surface ow State: County: District:	est Virginia Coo ner's land for th West Virginia		rizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing:	502251.797m 4370720.429m
the surface ow State: County:	est Virginia Coo vner's land for the West Virginia Tyler Ellsworth	e purpose of drilling a ho	rizontal well on the tract of land as for the control of the contr	502251.797m 4370720.429m Pleasant Ridge Road
Pursuant to W the surface ow State: County: District: Quadrangle: Watershed: This Notice: Pursuant to W facsimile num related to hori located at 601	dest Virginia Coorner's land for the West Virginia Tyler Ellsworth Middlebourne 7.5' Outlet Middle Island Shall Include: West Virginia Control and electronizontal drilling response 57th Street, SE,	Creek Ode § 22-6A-16(b), this nic mail address of the charge be obtained from the	rizontal well on the tract of land as for the control of land as for the co	bilows: 502251.797m 4370720.429m Pleasant Ridge Road Antero Resources Corp. ress, telephone number, and if available, ed representative. Additional information of Environmental Diffection headquarters, en wy gov/oil-and-gas/mag/default asnx.
Pursuant to W the surface ow State: County: District: Quadrangle: Watershed: This Notice: Pursuant to W facsimile num related to hori located at 601 Notice is her	dest Virginia Coorner's land for the West Virginia Tyler Ellsworth Middlebourne 7.5' Outlet Middle Island Shall Include: West Virginia Couber and electronizontal drilling response for the street, SE, reby given by:	Creek Ode § 22-6A-16(b), this nic mail address of the charleston, WV 25304 (25304)	rizontal well on the tract of land as for the control of the contr	pollows: 502251.797m 4370720.429m Pleasant Ridge Road Antero Resources Corp. ress, telephone number, and if available, ed representative. Additional information of Environmental of Greetion headquarters, ep.wv.gov/oil-and-gas/pagas/default.aspx. MAR 1 0 2021
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Pursuant to W the surface ow State: County: District: Quadrangle: Watershed: This Notice: Pursuant to W facsimile num related to hori located at 601 Notice is her Well Operator Address: Telephone:	dest Virginia Coorner's land for the West Virginia Tyler Ellsworth Middlebourne 7.5' Outlet Middle Island Shall Include: Vest Virginia Control de lectro izontal drilling response for the street, SE, reby given by: Antero Resource 1615 Wynkoop S	Creek Ode § 22-6A-16(b), this nic mail address of the conay be obtained from the Charleston, WV 25304 (3) as Corporation	rizontal well on the tract of land as for the component of the component o	pollows: 502251.797m 4370720.429m Pleasant Ridge Road Antero Resources Corp. ress, telephone number, and if available, ed representative. Additional information of Environmental of Offiction headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx. MAR 1 0 2021 Magain Griffing Protection 1615 Wynkoop St.
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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 depprivacyofficer@wv.gov.

WW-6A5 (1/12) Operator Well No. Fleetwood Unit 2H

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

	e Requirement: notice shal	Date Permit Applica	ntion Filed: 03/05/2021	
Delivery m	ethod pursuant to West Vi	rginia Code § 22-6A	1-16(c)	
CERT	TIFIED MAIL	☐ HAN	ND	
	JRN RECEIPT REQUESTE		LIVERY	
return recei the planned required to drilling of a damages to	pt requested or hand deliver operation. The notice req be provided by subsection (I a horizontal well; and (3) A the surface affected by oil a	y, give the surface ov uired by this subsect o), section ten of this proposed surface us and gas operations to t	vner whose land will be used for tion shall include: (1) A copy article to a surface owner whose se and compensation agreemen the extent the damages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	ereby provided to the SUR ess listed in the records of the		of notice): Name: Antero Resources Cor	p.
Name: Kevin	L. Thomas	/		The Late of the La
	L. Thomas 52 Saltwell Road		Address: 1615 Wynkoop Str	eet
Address: 46 Bridgeport, WV	52 Saltwell Road 226330 Preby given:	/	Denver, CO 80203	
Address: 46 Bridgeport, wv Notice is he Pursuant to operation of State: County:	52 Saltwell Road 26330 Preby given: West Virginia Code § 22-64		Denver, CO 80203	well operator has developed a planned
Address: 46 Bridgeport, WV Notice is he Pursuant to operation of State: County: District: Quadrangle	52 Saltwell Road 26330 Preby given: West Virginia Code § 22-67 on the surface owner's land f West Virginia Tyler Ellsworth Middlebourne 7.5'		eby given that the undersigned valing a horizontal well on the tra UTM NAD 83 Easting: Northing:	well operator has developed a planned oct of land as follows: 502251.797m 4370720.429m
Address: 46 Bridgeport, wv Notice is he Pursuant to operation of State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provi horizontal v surface affe information headquarter gas/pages/d	ereby given: West Virginia Code § 22-62 on the surface owner's land for West Virginia Tyler Ellsworth : Middlebourne 7.5' Outlet Middle Island Creek e Shall Include: West Virginia Code § 22-62 ded by W. Va. Code § 22-62 ded by W. Va. Code § 22-63 ded by W. Va. Code § 22-63 ded by G. Code § 25-64 ded by W. Va. Code § 25-65 ded by W. Va. Code § 25-65 ded by G. Code	A-16(c), this notice s -6A-10(b) to a surface face use and compens to the extent the mg may be obtained	beby given that the undersigned of ling a horizontal well on the trace UTM NAD 83 Public Road Access: Generally used farm name: Chall include: (1)A copy of this be owner whose land will be unsation agreement containing an damages are compensable und from the Secretary, at the WV, WV 25304 (304-926-0450)	well operator has developed a planned act of land as follows: 502251.797m 4370720.429m Plesant Ridge Road Antero Resources Corp. code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting Converted wy.gov/oil-and-mice of Oil and Gas MAR 10 2021
Address: 46 Bridgeport, WV Notice is he Pursuant to operation of State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provi horizontal v surface affe information headquarter	ereby given: West Virginia Code § 22-62 on the surface owner's land for West Virginia Tyler Ellsworth : Middlebourne 7.5' Outlet Middle Island Creek e Shall Include: West Virginia Code § 22-62 ded by W. Va. Code § 22-62 ded by W. Va. Code § 22-63 ded by W. Va. Code § 22-63 ded by G. Code § 25-64 ded by W. Va. Code § 25-65 ded by W. Va. Code § 25-65 ded by G. Code	A-16(c), this notice s -6A-10(b) to a surface face use and compens to the extent the mg may be obtained	eby given that the undersigned of ling a horizontal well on the trace UTM NAD 83 Public Road Access: Generally used farm name: Chall include: (1)A copy of this is easily on the enterty of the containing and amages are compensable under the Secretary, at the WV	well operator has developed a planned act of land as follows: 502251.797m 4370720.429m Plesant Ridge Road Antero Resources Corp. code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting Converted wy.gov/oil-and-mice of Oil and Gas MAR 10 2021

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

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

March 3, 2021

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

Subject: DOH Permit for the Roma Lou Pad, Tyler County Fleetwood Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2019-0758 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 10/1 SLS MP0.59.

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 Engine 202

Central Office O&G Coordinator
Environmental Protection

Cc: Megan Griffith Antero Resources CH, OM, D-6

File

List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	57-50-1 68439-5 26 of Oil and Gas
Suspending agent (solid)	14808-60 ₇ 7
Tar bases, quinoline derivs, benzyl chloride-quaternized	14808-60 7 14808-70 10 2021
Solvent Naphtha, petroleum, heavy aliph	64742-9 6 77000
Soybean Oil, Me ester	64742-967 Department of 67784-80-9 mental Protection
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamthylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
Diethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

U	OCATION CO	ORDINATES		
CITE LOCATIONS	WV83-NF1 N	ORTH ZONE 1	UTM	83-17
SITE LOCATIONS	LATITUDE	LONGITUDE	NORTHING	EASTING
MAIN ACCESS ROAD ENTRANCE	39.481354	-80,969484	4370195 7109	502624.4372
CENTROID OF WELL PAD	39.485403	-80.973885	4370544,8740	502245.8019
CENTER OF CONTAINMENT TANK	39.484301	-80.973772	4370572 5885	507255-5655

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FLOODPLAIN NOTES:
THE PROPOSED SITE LOCATION IS NOT WITHIN ANY CENTIFIC FLOOD ZONES. PER FEMA WAR FAMILIERIES, #54085C015DC

VISS UTILITY STATEMENT:
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WHILE OF DESIGN THOUT #482917120 IN ACCIDITAL MISS UTILITY OF WEST VEGREA FOR THE LOCATION OF UTILITIES FROM TO THE
FRANCE OF DESIGN THOUT AND THE PROJECT.

ENVIRONMENTAL MOTES:

STREAM AND WITLAND CLUERATIONS WERE, REPOWNED IN SEPTEMBER, BOT BY GALCOMENTANTE TO PROVE THE STEEL AND THE AND

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PROJECT CONTACTS:

ELI WAGGINER - ENVIRONMENTAL À REGULATORY MANAGER CEPCE DELINE-ROIT DELL'INVESTMENT

AARDN KUKZLER - CONSTRUCTION MANAGER

Capitol





ENVIRONMENTAL: GALCONSULTANTS JASON DOCK - PROJECT IMMAGER OFFICE (JES) 28-350-

GEOTECHNICAL: CIVIL & ENVIRONMENTAL CONSULTANTS, INC.



APPROVED

PENNSYLVANIA



PLAN REPRODUCTION WARNING THE PLANS HAVE BEEN CREATED ON ANSI D 627 X 347 SHEETS FOR REDUCTIONS REPER TO GRAPHIC SCALE.

THE PLANS HAVE BEEN CREATED FOR HULL COLOR PLOTTEN SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHI SE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES **WARNING**, REGRESSION MAY BE LOST ALCOPYNIC AND/OR CRA SCALE PLOTTING

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WEST VIRGINIA STATE LAW REQUIRES THAT YOU CALL TWO BUSINESS DAYS BEFORE YOU DIG IN THE STATE OF WEST VIRGINIA IT'S THE LAW!

ROMA LOU WELL PAD ANTERO RESOURCES CORPORATION **FINAL DESIGN PLANS**

UNION DISTRICT, TYLER COUNTY, WEST VIRGINIA MIDDLE ISLAND CREEK WATERSHED



LOCATION MAP

MIDDLEBOURNE USGS 7.5' QUAD

1900 1 INCH = 1000 FEET

VICINITY MAP

TYLER COUNTY ROAD MAP 1 MILES 1 INCH = 1 MILE

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(2)

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AREA

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	COVER SHEET	
	GENERAL NOTES	
3	MATERIAL QUANTITIES	
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RESTRICTIONS NOTES:

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PAD. THERE ARE NO AGRICULTURAL BUILDINGS LANGER THAM 2500 SQUARE FEET WITHIN IOS MEET OF THE CENTER OF THE WALL MAD.

	GRADING VOLU	IMES		
DESCRIPTION		CUT (CY)	FILL (CY)	NETICY
MAIN ACCESS ROAD		1,333	10.915	-0,582
ACCESS ROAD 2		292	11,275	-10.063
WELL PAD		07,307	40,474	20.635
SPOIL-1		à	258	-269
TOTAL		65,932	68,932	0
TOPSOIL / STRIPPING WITH 20% SWELL	(14,741 C.Y)		12,284 C.V	
TOTAL EXCAVATION		81,216	81,216	. 0

NOTE TOPSOL / STRIPPING VOLUMES ARE CALCULATED WITHIN THE CUIT / FILL CHADING LIMITS

LO.D. AREAS				
DESCRIPTION	ACRES			
MAIN ACCESS ROAD	4,41			
ACCESS ROAD 2	1.05			
WELL PAD	12.19			
SPOR PILE 1	1.23			
TOPSOIL/STRIPPING PILE 1	2,36			
TOTAL	21.24			
WOODED	5.21			

LIMITS	OF DISTURBANC	E PARCEL BRE	AK UPS - ROMA LI	DU WELL PAD	
	TYLE	R COUNTY, WE	ST VIRGINIA		
OWNER	TM-PARCEL	DEED-PAGE	TOTAL ACRES	TYPE OF DISTURBANCE	ACERAG
BOWEN FAMILY IRREVOCABLE TRUST	10-5,5	372-303	12.88	PARCEL INFORMATION	
				MAIN ACCESS ROAD	2,60
				PARCEL TOTAL	2.60
BOWEN CAROLYN SUE	10-5-1	WR56-619	2	PARCEL INFORMATION	
				MAIN ACCESS ROAD	0,04
				PARCEL TOTAL	0,04
THOMAS REVIN I	10-4	112-326	92.6	PARCEL INFORMATION	
				MAIN ACCESS ROAD	1.67
	11			ACCESS HOAD 2	1.05
				WELLPAD	12.19
				SPOLPLF1	1.23
				TOPSOIL/STRIPPING PILE 1	2.36
				PARCEL TOTAL	18.50

				-A	
		WELLE	GEND		
WELLHEAD	WV NORTH NAD 27	WV NORTH NAD 83	UTM-M	NAD 83	NAD 27
PATTY 1H	N: 362463,951	N: 362497.995	N: 4370698.060	49° 29' 9.18°	39, 59, 8 50,
PATTY IN	E: 1583979.318	E: 1552538.274	E: 502247.135	-80"58"25.93"	80" 58" 25.54"
ROY 1H	N: 362478.579	N: 362512.623	N: 4370702.534	39" 29" 9.32"	39" 29" 9.05"
KOL 14	F: 1583982 636	E: 1552541,592	E: 502248.051	80" 58" 25.59"	-80" 58" 26.50"
Alleren	N: 362493.207	N: 362527.252	N:4370707.007	39* 29* 9,47*	39" 29" 9.19"
ROY 2H	E: 1583985.954	E: 1552544,910	E: 502248.987	-80" 58" 25.85"	-80" 58" 26,46"
PLEETWOOD 1H	N: 362507.836	N: 362541.881	N 4370711.481	39* 29' 9.61"	39" 29" 9.34"
LUCET WOOD IN	E; 1583989 272	E-1552548.228	E. 502249.924	80' 58' 75.81"	-80" 58" 25,42"
FLEETWOOD 2H	N: 362522,464	N: 362556 509	N: 4370715.954	39* 29* 9.76*	39" 29" 9.48"
PERETWOOD 211	E: 1583992 589	E: 1552551.545	E+502250.860	-80" 58" 25.77"	-80" 58" 26.38"
OPEN	N: 362537.092	N: 362571,138	N: 4370720.428	39" 29" 09.90"	39" 29" 09.34"
UPEN.	E: 1583995.907	E: 1552554,863	E: 502251.796	-80° 58° 25.73	80" 58' 26,34"
ROMA LOU SH	N: 362327.537	N: 352361.580	N: 4370656.244	39" 29" 07.82"	39" 29" 07.55"
HOMA LOG 3H	E-1583028.835	E-1552487.701	E-502222.420	-80° 58' 36 55"	-80' 50' 37 15"

BOWEN BITHARD DANIE

3/24/2020

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MAIN ACCESS ROAD



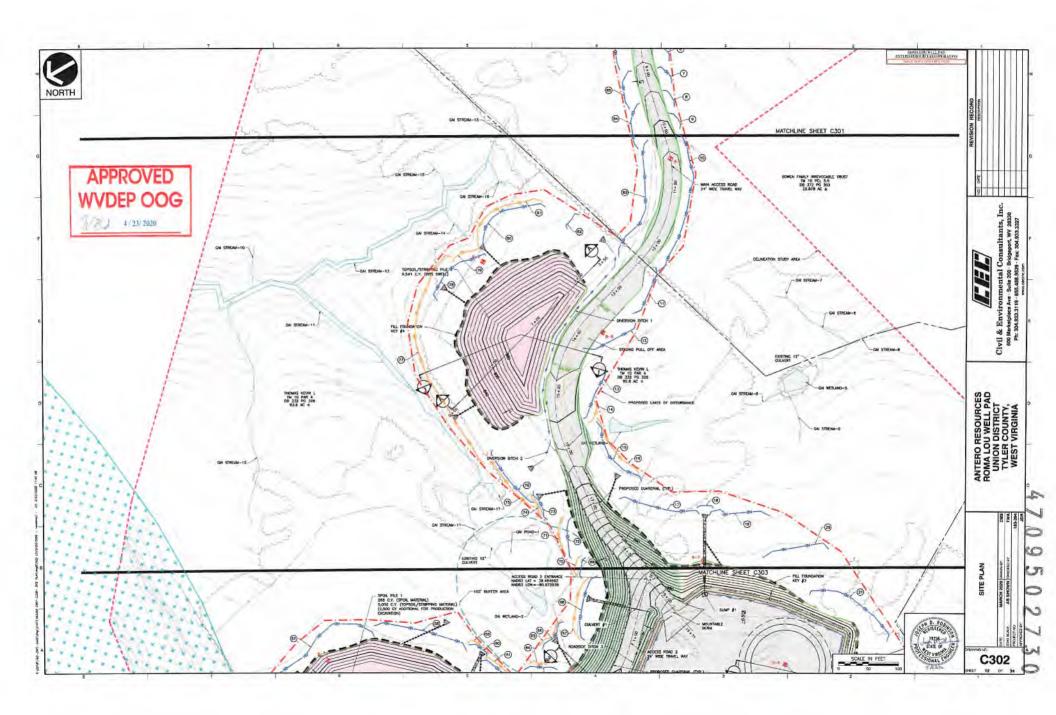
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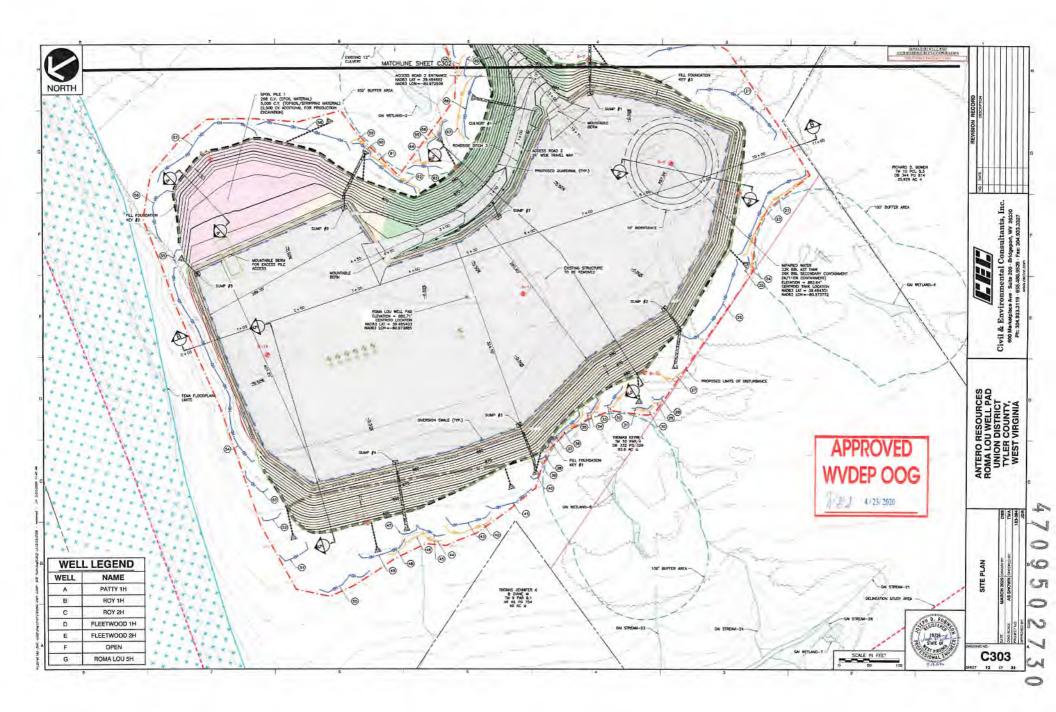
ANTERO RESOURCES
ROMA LOU WELL PAD
UNION DISTRICT
TYLER COUNTY,
WEST VIRGINIA

Civil & I

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COVER





L	OCATION CO	DORDINATES		
SITE LOCATIONS	M/83-NF (N	IORTH ZONE)	LITM	13-17
SHE LUCATIONS	LATITUDE	LONGITUDE	NORTHING.	EASTING
MAIN ACCESS ROAD ENTRANCE	39.481364	-80.969484	4370195.7109	502524.4372
CENTROID OF WELLPAD	39.485403	-90,973885	4370644,8740	502245,8019
CENTER OF CONTAINMENT TANK	39.484101	+80,973772	4370522.5885	502255,5659

ROMA LOU WELL PAD ANTERO RESOURCES CORPORATION **FINAL DESIGN PLANS**

UNION DISTRICT, TYLER COUNTY, WEST VIRGINIA MIDDLE ISLAND CREEK WATERSHED

TARRATED PAO AND WILL PAD ARE DEING CONSTRUCTED TO ARE IN THE DEVELOPMENT OF

FLOCOPLAIN NOTES. THE PROPOSED SITE LOCATION IS NOT WITHIN ANY IDENTIFIED FLOCO ZONES. PER FEMA MAR HAMMERID, #54085001500.

MSS_UTILITY STATEMENT.

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OF CONSTRUCTION OF HER PRINCES.

ENVIRONMENTAL NOTIES:
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GEOTECHNICAL, MOTES:

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PROJECT CONTACTS:

UPERATOR: ANTERO RESOURCES CORPORATION

ELI WAGONER - EININONMENTAL & RECULATORY MANAGER OFFICE (200 842-498) CELL (200-498-075)

AARDN GINZLER - CONSTRUCTION MANAGER OFFICE (DD4 MQ-40)

DIMMA HOFF - SUF OPERATIONS OFFICE (200) MO HICK

图

CHARLES E. COMPTON: III /UTILITY COORDINATOR CELL (IGN) THE 646 DAVID PATSY - LAND ACENY OFFICE INSI 842-8277

ENVIRONMENTAL: GAI CONSULTANTS LASON COOK - PROJECT MANAGER OFFICE (303) T05-3306

ROJECT

AREA

GEOTECHNICAL: CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

ENGINEER/SURVEYOR
CAVIL A ENVIRONMENTAL CONSULTANTS, INC.
DESERT OR CONSULTANTS, INC.
DESERTO REQUISED TO PROPRIET MANAGEMENT METERICAL CONSULTANTS.
ENGINEER/SURVEY DESERTOR OF THE CONSULTANTS.
ENGINEE

HOW ESHIN PROJECT MANAGER
OFFICE (20H 632-31) FAX: (30H 933-3327 CEL) (24H 774-77)

PENNSYLVANIA

MARYLAND

VIRGINIA

Eastern

PLAN REPRODUCTION WARNING













USITE PLAN SITE A AN SITE A AN PACELES AND SECTIONS PROFILES AND SECTIONS

ANTERORISATION WILL TO

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LIMITS OF	DISTURBANC	E PARCEL BRE	AK UPS - ROMA I	OU WELL PAD	
	TYLES	COUNTY, WE	ST VIRGINIA		
CANNER	TWA-PARCEL	DEED-PAGE	TOTAL ACRES	TYPE OF DISTURBANCE	ACERAGE
BUWEN FAMILY IRREVOCABLE TRUST	10-55	372-103	72.88	PARCEL INFORMATION	
				MAIN ACCESS ROAD	Z 60
				PARCEL TOTAL	2.60
BOWEN CAROLYN SUE	16-54	W856-619	2	PARCEL INFORMATION	
	700			MAIN ACCESS ROAD	0.04
				PARCEL TOTAL	0,04
THOMAS REVIN L	10-4	337-526.	92.5	PARELLINEGRAATION	
				MAIN ACCESS ROAD	1.67
		-		ACCESS ROAD 2	1.05
				WELLPAD	12.19
				SPOIL PILE 1	1,23
				TORSOIL/STEPPING FILE 1	2.86
				PAHCEL TOTAL	18.50
BOWEN RICHARD DANIEL	10-5.4	104-014	9,519	PARCEL INFORMATION	
				MMN ACCESS ROAD	0.10
				PARCEL TOTAL	0.10
	_			TOTAL	21 24

L.O.D. AREAS		
DESCRIPTION	ACRES	
MAIN ACCESS ROAD	4.41	
ACCESS ROAD 2	5.05	
WELL PAD	12.19	
SPOIL PILE I	1.23	
TOPSOIL/STRIPPING PILE 1	2.35	
TOTAL	21.24	
Manager	5.21	

		WELLLEGE	END		
WELL HEAD	WV NORTH NAD 27	WV NORTH NAD 83	UTM-M	NAD 23	NAD 27
PATTY 14	N: 362463.951	N: 862497.995	N: 4370898,060	39"29"09,18"	19" 29' 8,90"
	E: 1583979.318	E: 1552538.274	E: 502247.115	-80° 58° 25.93°	-80" 58' 26.54"
PATTY 24	N: 362478,579	N: 362512.623	N: 4370702.534	39" 29' 09.32"	39" 29' 9.05"
	E: 1583982.636	E: 1552541.592	E: 502248.051	-80° 58° 25.89°	-80° 58' 26.50"
ROYIH	N: 162493.207	N: 362527.252	N: 4370707.007	39" 29" 09.47"	39" 29" 9.19"
	E. 1583985.954	E: 1552544.910	E: 502248.987	-80" 58" 25.85"	-90" 58" 26,46"
ROY 2H	N: 362507.836	N: 362541.881	N:4370711.481	39" 29" 09.61"	39" 29" 9.34"
	E-1583989.272	E: 1552548,228	E: 502249,924	-80" 58" 25.81"	-BD" 58" 25.42"
FLEETWOOD 1H	N: 352522:464	N: #62556.509	N: 4370715.954	39" 29' 09,76"	39" 29" 9.48"
	F: 1583992.589	£ 1552551.545	E: 502250,860	-80°58'25.77"	·80" 58' 25,38"
FLEETWOOD 2H	N: 362537,092	N: 362571.138	N: 4370720,428	39" 29" 09.90"	39" 29" 09.63"
	E: 1583995.907	F: 1552554.863	E: 502251.796	-80° 58' 25.73"	80" 58" 26.34"
KRESS 2H	N:362114.404	N: 362148,448	N: 4370591.395	39" 29" 05,72"	39" 29" 05,44"
	E: 1583944,964	E: 1552503.920	E: 502238.427	-80° 58° 26.30°	-90" 58" 26.90"
KRESS IN	N: 367128.353	N: 352162.396	N: 4370595,616	39" 29" 05.85"	39" 29' 05.58"
	F: 1583939.446	E: 1552498.402	E: 502236.673	-80° 58' 26,37"	-80° 58' 75,98°
Comment to	N: 362142.301	W: 362176,344	N: 4370599.837	39" 29" 05.99"	39* 29/ 05,72*
HOWELL 24	E: 1583933.928	E: 1552492.884	E: 502234.923	-80" 58" 26-44"	-80° 58' 27.05"
HOWELL 18	N 362156.250	N: 362190,292	N: 4370604,059	19" 29" D5,13"	39" 29" 05.85"
	E: 1583928,410	E: 1552487.366	E: 507233,171	-80"58"26.52"	-80" 58' 27.12"
ARCHER 2H	N: 362170.198	N: 362204.241	N: 4370608.280	39129108.261	39" 29" 05,99"
	E: 1583922.892	E: 1552481,849	E: 502231.419	8d" 58" 26.59"	-80* 58* 27-20*
- 5. 5 december 1	N: 362184 146	N: 362218.189	N: 4370512.501	39" 29" 06 40"	39" 29" 06.13"

E: 1583917.375

N: 362327.537

E: 1583928.835

ROMA LOUSH

	Office of Oil at	20ZI	F		5		C
	WV Depart Environmental	Projection	880	TWA	183-394	JOR	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Dm H 3-10-21	COVER SHEET	MARCH 2020 ORANN ST.	AS SHOWN CHENED IN:			Ti.
3 [†] 3	3 GST 12 S		e	A SCALE	OURCEND	PROVED SY:	



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sultants, Inc epor, WV 26330 :: 304.833,3327

Environmental

Civil & J

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	VICINITY MAP	

TYLER COUNTY ROAD MAP SCALE IN FEET 1 MLFS

WEST VIRGINA STATE LAW REQUIRES THAT YOU CALL TWO BUSINESS DAYS BEFORE YOU DIG IN THE STATI OF WEST VIRGINIA IT'S THE LAW!

THE PLANS HAVE BEEN CREATED ON ARCHID (20"X 34") SHEETS FOR REDUCTIONS, REFER TO GRAPHIC SCALE THE PLANS HAVE SEEN CREATED FOR PLAL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ASSOCIATE FOR COMMISSION OF PROPERTY.

1

E: 1552476.331 E: 502229.567 -90* 58' 25.56" N: 362361.580 N: 4370556.244 39*29' Q7.82" 39* 29' 07_55"

E, 502232.429 -80° 58° 26.55°

