



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

Monday, November 21, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for GENEVIEVE 5V
47-017-06940-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin
Chief

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: GENEVIEVE 5V
Farm Name: ANTERO RESOURCES CORP
U.S. WELL NUMBER: 47-017-06940-00-00
Horizontal 6A New Drill
Date Issued: 11/21/2022

Promoting a healthy environment.

11/25/2022

PERMIT CONDITIONS 4701706940

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

11/25/2022

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

1) Well Operator: Antero Resources Corporation 494507062 017-Doddrige West Union West Union 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Genevieve Unit 5V Well Pad Name: Genevieve Pad

3) Farm Name/Surface Owner: Antero Resources Corp. Public Road Access: Route 18N

4) Elevation, current ground: 885' Elevation, proposed post-construction: ~885'

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

SAW
10/27/2022

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7300' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7300' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 7300'

11) Proposed Horizontal Leg Length: 0' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 308', 521'

13) Method to Determine Fresh Water Depths: 47017023190000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1468'

15) Approximate Coal Seam Depths: None Anticipated

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

WW-6B
(04/15)

API NO. 47-017-1700940
 OPERATOR WELL NO. Genevieve Unit 5V
 Well Pad Name: Genevieve 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	79#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	571'	571'	CTS, 594 Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	3200'	3200'	CTS, 1303 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	7300'	7300'	CTS, 912 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

*SPW
10/27/2022*

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			
Sizes:	N/A			
Depths Set:	N/A			

WW-6B
(10/14)

API NO. 47- 017 -
OPERATOR WELL NO. Genevieve Unit 5V
Well Pad Name: Genevieve 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:

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.69 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 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.

LEGEND

- ⊙ Proposed gas well
- ⊛ Existing Well, as noted
- ⊛ Digitized Well, as noted

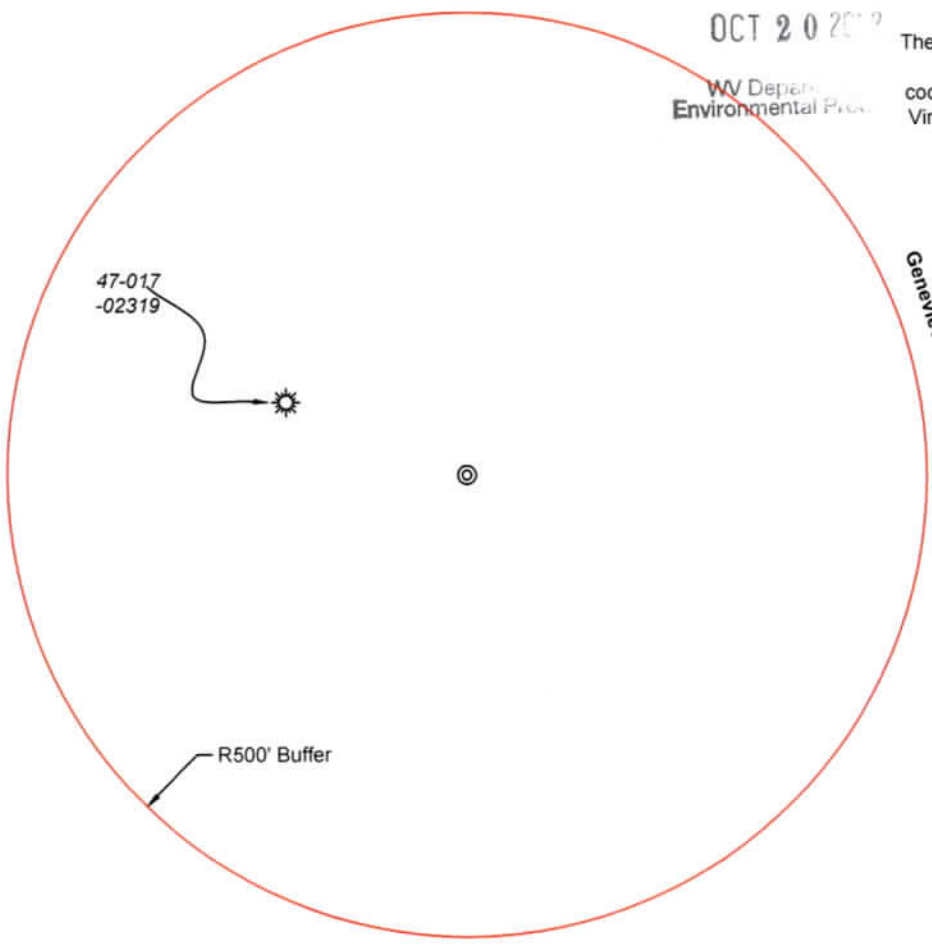


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OCT 20 2022

WV Department of Environmental Protection

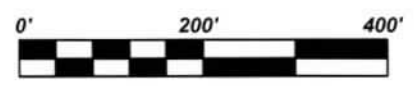
The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone



Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: J. Smith
RESEARCH: J. Miller	PREPARED: April 22, 2022
SURVEYED: Dec. 2016	PROJECT NO: 58-30-WU-14
FIELD CREW: C.L., K.M.	DRAWING NO: Genevieve 5V AOR



Scale: 1 inch = 200 feet 11/25/2022

4701706940

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formations(s)	Productible Formations(s) not per'g
4701703190000	BETTY JANE LANGFITT	1	PILLAR ENERGY, LLC	KEYOIL INC	5,241	5080 - 5146	Alexander	Weir, Berea

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11/25/2022

WW-9
(4/16)

API Number 47 - 017 - _____
Operator's Well No. Genevieve Unit 5V

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494507062

Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Union 7.5'

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

Will a pit be used? Yes No

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

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____ *UIC Permit # will be provided on Form WR-34 _____)
- Reuse (at API Number _____ Future permitted well locations when applicable. API# will be provided on Form WR-34 _____)
- Off Site Disposal (Supply form WW-9 for disposal location Meadowfill Landfill Permit #SWF-1032-98/
Northwestern Landfill Permit #SWF-1025/
WV0109410
Wetzel Co Landfill Permit #SWF-1021
- Other (Explain _____)

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10/27/2022

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

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

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

Additives to be used in drilling medium? Please See Attachment

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

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

-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Wetzel Co Landfill (Permit #SWF-1021)

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

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

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

Company Official Signature Gretchen Kohler
Company Official (Typed Name) Gretchen Kohler
Company Official Title Director of Environmental & Regulatory Compliance

Subscribed and sworn before me this 19 day of Oct, 2022

Diane Blair Notary Public

My commission expires 27 Apr 2024



11/25/2022

Antero Resources Corporation

Proposed Revegetation Treatment: Acres Disturbed 24.86 acres Prevegetation pH _____

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

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

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Main Access Road (8.20 acres)+Well Pad(7.69 acres) +AST Pad Access Road(1.32 acres)+AST Pad (3.31 acres)+Topsoil(3.43 acres)+ Spoil Pile(0.91 acres) =24.86 Acres

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Annual Ryegrass	40
Field Bromegrass	40

Seed Type	lbs/acre
Crownvetch	10-15
Tall Fescue/Perennial Ryegrass	30 / 20

See attached Table IV-3 for additional seed type (Genevieve Pad Design)

See attached Table IV-4A for additional seed type (Genevieve Pad Design)

*or type of grass seed requested by surface owner

*or type of grass seed requested by surface owner

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Sid Warrill

Comments: Pre-seed/mulch as soon as reasonably possible per DEP E+S regulations. Upgrade E+S as necessary

Title: OOG Inspector Date: 10/27/2022

Field Reviewed? Yes No

Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

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

PRODUCTION INTERVAL

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

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

4701706940



911 Address
2017 WV RT 18 N
West Union, WV 26456

Well Site Safety Plan

Antero Resources

Well Name: GENEVIEVE UNIT 5V

Pad Location: GENEVIEVE PAD
Doddridge County/West Union District

GPS Coordinates:

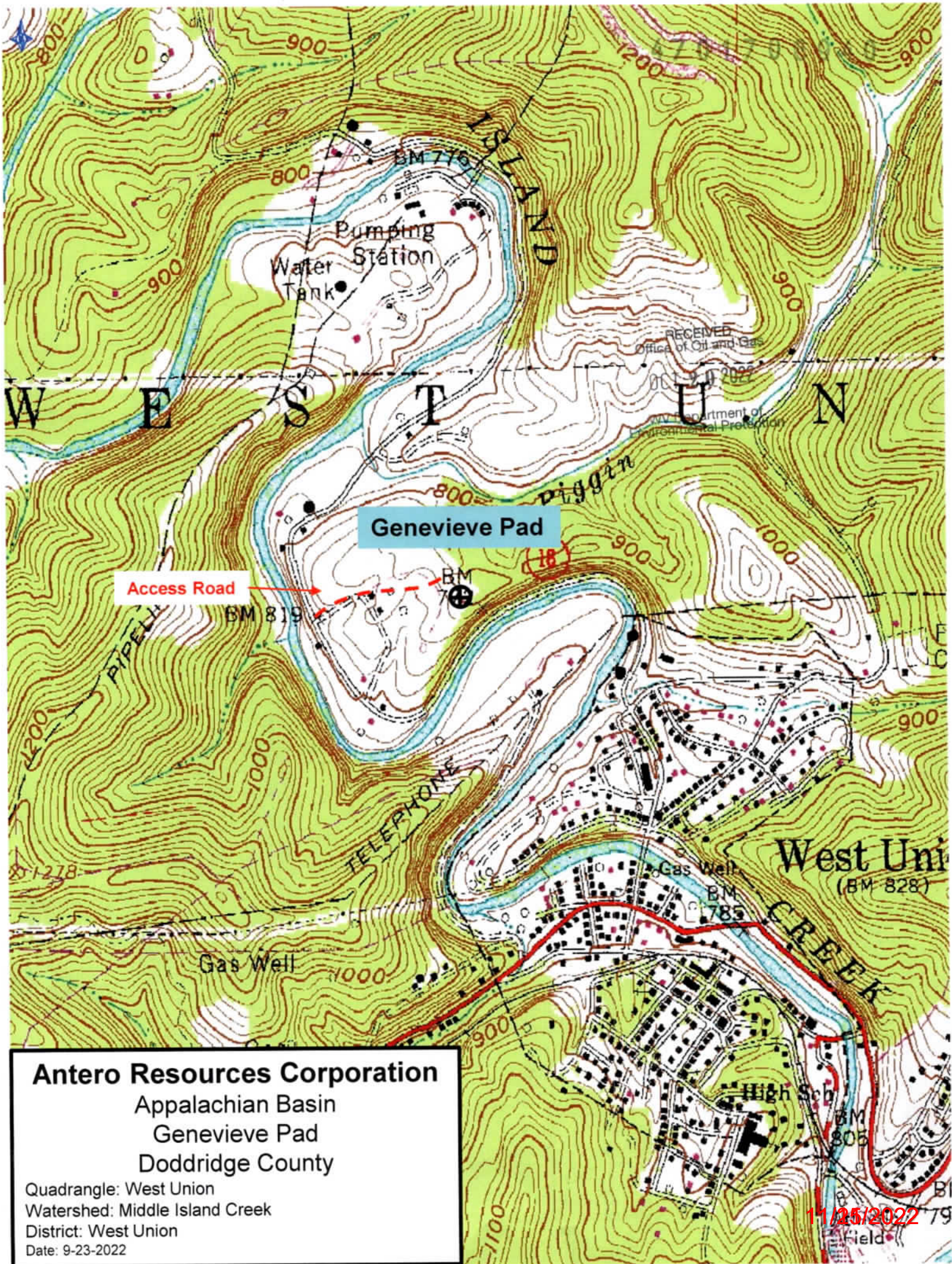
Entrance - Lat 39.302526 / Long -80.785822 (NAD83)

Pad Center - Lat 39.303788/Long -80.781830 (NAD83)

Driving Directions: From US-50, Turn south onto Smithburg RD and travel 0.2 Miles. Turn right onto Smithton Rd and continue 3.4 miles. Continue straight onto WV-18 and travel for 0.5 miles. Turn right to stay on WV-18 and travel for 1.0 mile. The Genevieve lease road is on the right.

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

SDW
10/27/2022



Genevieve Pad

Access Road

Antero Resources Corporation
Appalachian Basin
Genevieve Pad
Doddridge County

Quadrangle: West Union
Watershed: Middle Island Creek
District: West Union
Date: 9-23-2022

11/25/2022

Antero Resources
Well No. Genevieve 5V

LATITUDE 39 - 20 - 00

Antero Resources Corporation

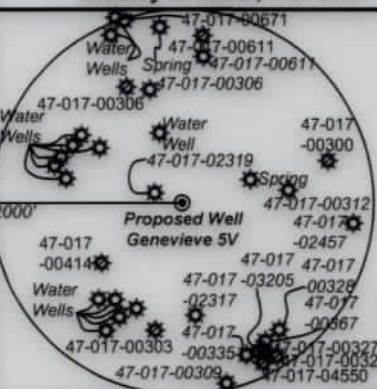
ID	TM/Par	Owner	BN/Pg	Acres
1	11-3	Antero Resources Corp.	431/528	18.50
2	11-2	Sharon K. & Paul D. Weekley	220/499	12.00
3	11-4	Paul D. & Sharon K. Weekley	186/743	17.30
4	11-4.1	Mary Lou Holland	286/213	9.55
5	35-100	David N. & Tina M. McCartney	288/80	4.50
6	35-99	Antero Resources Corp.	431/240	0.43
7	35-98	Antero Resources Corp.	431/240	0.22
8	35-97	Antero Resources Corp.	431/240	0.22
9	35-96	Antero Resources Corp.	431/240	0.45
10	35-5	Antero Resources Corp.	431/585	0.23
11	35-4	Antero Resources Corp.	431/585	0.13
12	35-95	Antero Resources Corp.	430/666	0.36
13	35-94	Antero Resources Corp.	430/666	0.23
14	35-93	Antero Resources Corp.	430/666	0.23
15	35-3	Antero Resources Corp.	430/666	0.23
16	35-52	Antero Resources Corp.	430/666	0.23
17	35-91	Antero Resources Corp.	430/666	0.23
18	35-90	Antero Resources Corp.	430/666	0.23

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Genevieve 5V coordinates are
N: 295,340.99' Latitude: 39°18'13.59"
E: 1,637,136.77' Longitude: 80°46'56.37"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,350,519.595m
E: 518,782.909m
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,272,614.89'
E: 1,701,992.96'
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

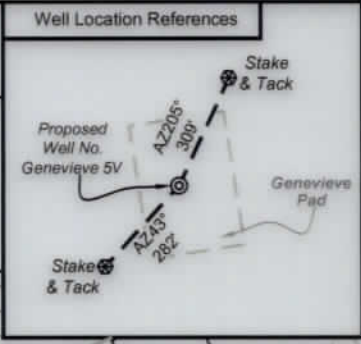


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
Bradley D. Miller, P.S. 2167



Note: 14 water wells and 2 springs were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Legend

- ⊙ Proposed gas well
- ⊗ Found corner, as noted
- ⊛ Existing Well, as noted
- ⊙ Digitized Well
- - - Existing Road
- - - Creek/Drain
- Surface boundary (approx.)
- Interior surface tracts (approx.)

FILE NO: 58-30-WU-14
DRAWING NO: Genevieve 5V Well Plat
SCALE: 1" = 500'
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: April 22 2022
OPERATOR'S WELL NO. Genevieve 5V
API WELL NO
47 - 017 - 06940
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Existing: 885' Proposed: 885' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
DISTRICT: West Union Antero COUNTY: Doddridge
SURFACE OWNER: Resources Corp. ACREAGE: 16.5
ROYALTY OWNER: Claude L. Smith, et ux LEASE NO: ACREAGE: 90
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,300' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,300' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

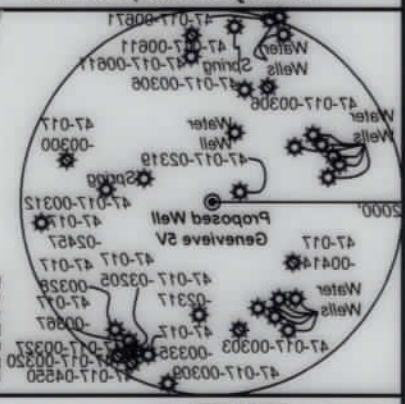
11/25/2022

Antero Resources Corporation
Well No. Genevieve 5V



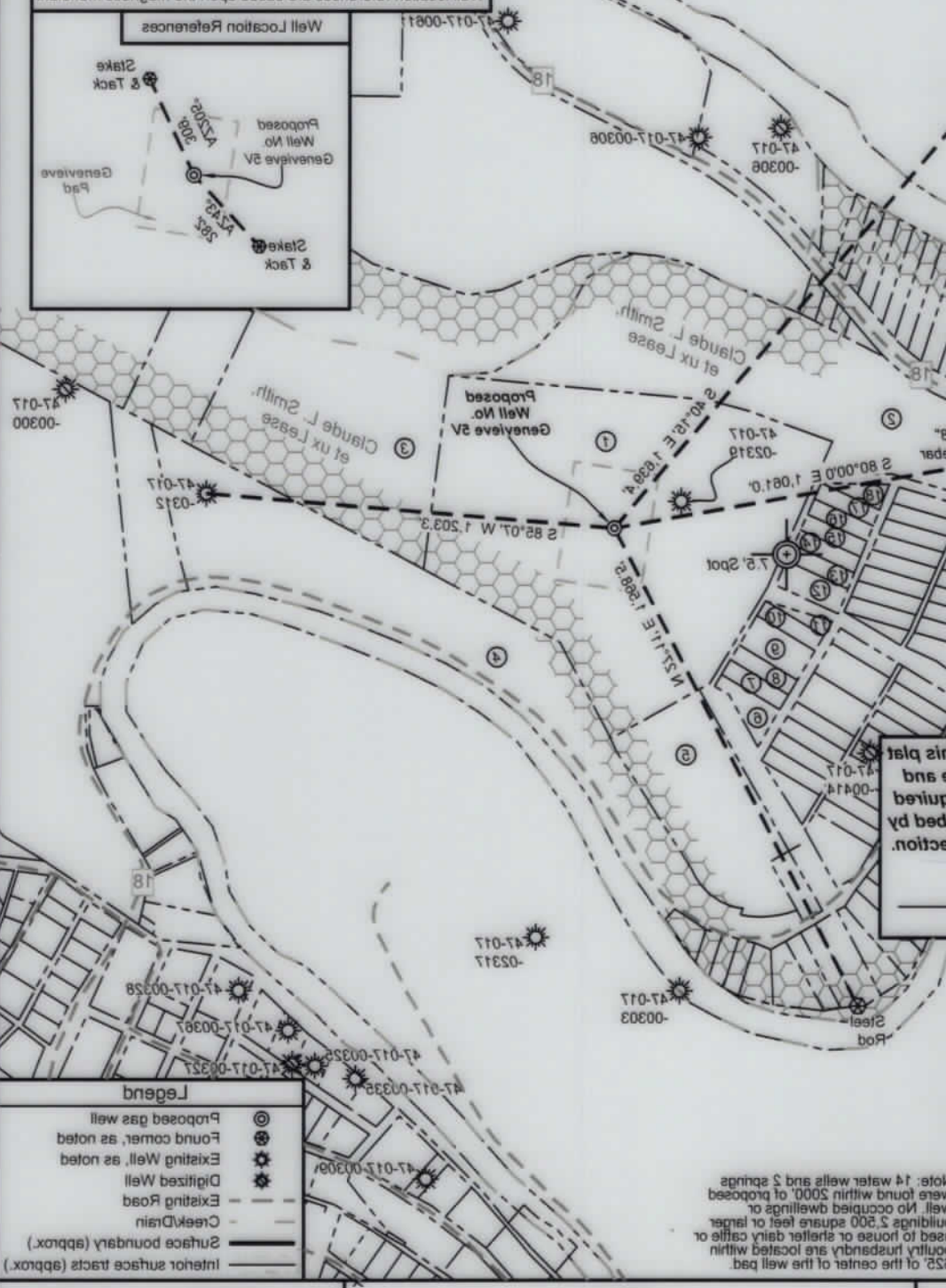
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167



Notes:
Well location references are based upon the magnetic meridian, are based upon the north meridian.
Plat orientation and corner and well references
Top Hole Coordinates
UTM Zone 17 NAD 1983
E: 1,701,992.96
N: 4,325,814.89
Top Hole Coordinates
UTM Zone 17 NAD 1983
E: 518,782.9099m
N: 4,350,519.595m
Well No. Genevieve 5V coordinates are
based upon Differential GPS Measurements.
West Virginia Coordinate System of 1927, North Zone

ID	TMPr	Owner	Area
18	38-00	Antero Resources Corp.	4300000 0.23
17	38-01	Antero Resources Corp.	4300000 0.23
16	38-02	Antero Resources Corp.	4300000 0.23
15	38-03	Antero Resources Corp.	4300000 0.23
14	38-04	Antero Resources Corp.	4300000 0.23
13	38-05	Antero Resources Corp.	4300000 0.23
12	38-06	Antero Resources Corp.	4300000 0.23
11	38-07	Antero Resources Corp.	4300000 0.23
10	38-08	Antero Resources Corp.	4300000 0.23
9	38-09	Antero Resources Corp.	4300000 0.23
8	38-10	Antero Resources Corp.	4300000 0.23
7	38-11	Antero Resources Corp.	4300000 0.23
6	38-12	Antero Resources Corp.	4300000 0.23
5	38-13	Antero Resources Corp.	4300000 0.23
4	38-14	Antero Resources Corp.	4300000 0.23
3	38-15	Antero Resources Corp.	4300000 0.23
2	38-16	Antero Resources Corp.	4300000 0.23
1	38-17	Antero Resources Corp.	4300000 0.23



- Legend**
- Proposed gas well
 - Found corner, as noted
 - Existing Well, as noted
 - Digitized Well
 - Existing Road
 - Creek/Drain
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

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

FILE NO.: 58-30-WU-14
DRAWING NO.: Genevieve 5V Well Plat
SCALE: 1" = 500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

DATE: April 22 2022
OPERATOR'S WELL NO.: Genevieve 5V
API WELL NO. 47-017-00308
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: Existing: 885' Proposed: 885'
WATERSHED: Middle Island Creek
HEADWATERS: West Union

ROYALTY OWNER: Claude L. Smith, et ux
SURFACE OWNER: Antero Resources Corp.
DATE: 11/25/2022

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORMATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,300' MD
DESIGNATED AGENT: Danna Stampler - CT Corporation System

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 5400 D Big Tyler Road
Charleston, WV 25313

ACREAGE: 18.5
LEASE NO.: _____
ACREAGE: 90

9,147' to Top Hole

LATITUDE 39 - 20 - 00

LONGITUDE 80 - 24 - 00

9,147' to Top Hole

LATITUDE 39 - 20 - 00

LONGITUDE 80 - 45 - 00

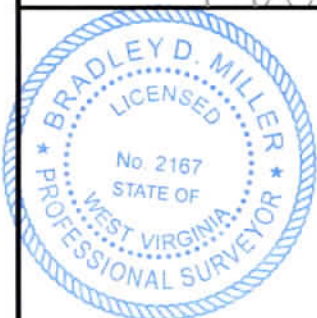
Antero Resources Well No. Genevieve 5V

Antero Resources Corporation

ID	TM/Par	Owner	Bk/Pg	Acres
1	11-3	Antero Resources Corp.	431/528	16.50
2	11-2	Sharon K. & Paul D. Weekley	220/499	12.00
3	11-4	Paul D. & Sharon K. Weekley	188/743	17.30
4	11-4.1	Mary Lou Holland	288/313	9.55
5	35-100	David N. & Tina M. McCartney	288/90	4.50
6	35-99	Antero Resources Corp.	431/240	0.43
7	35-98	Antero Resources Corp.	431/240	0.22
8	35-97	Antero Resources Corp.	431/240	0.22
9	35-96	Antero Resources Corp.	431/240	0.45
10	35-5	Antero Resources Corp.	431/585	0.23
11	35-4	Antero Resources Corp.	431/585	0.13
12	35-95	Antero Resources Corp.	430/666	0.36
13	35-94	Antero Resources Corp.	430/666	0.23
14	35-93	Antero Resources Corp.	430/666	0.23
15	35-3	Antero Resources Corp.	430/666	0.23
16	35-92	Antero Resources Corp.	430/666	0.23
17	35-91	Antero Resources Corp.	430/666	0.23
18	35-90	Antero Resources Corp.	430/666	0.23

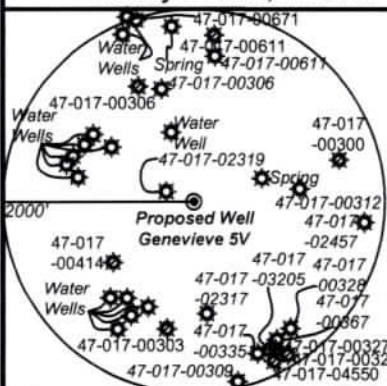
Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Genevieve 5V coordinates are
 N: 295,340.99' Latitude: 39°18'13.59"
 E: 1,637,136.77' Longitude: 80°46'56.37"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates
 N: 4,350,519.595m
 E: 518,782.909m
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,272,614.89'
 E: 1,701,992.96'

Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

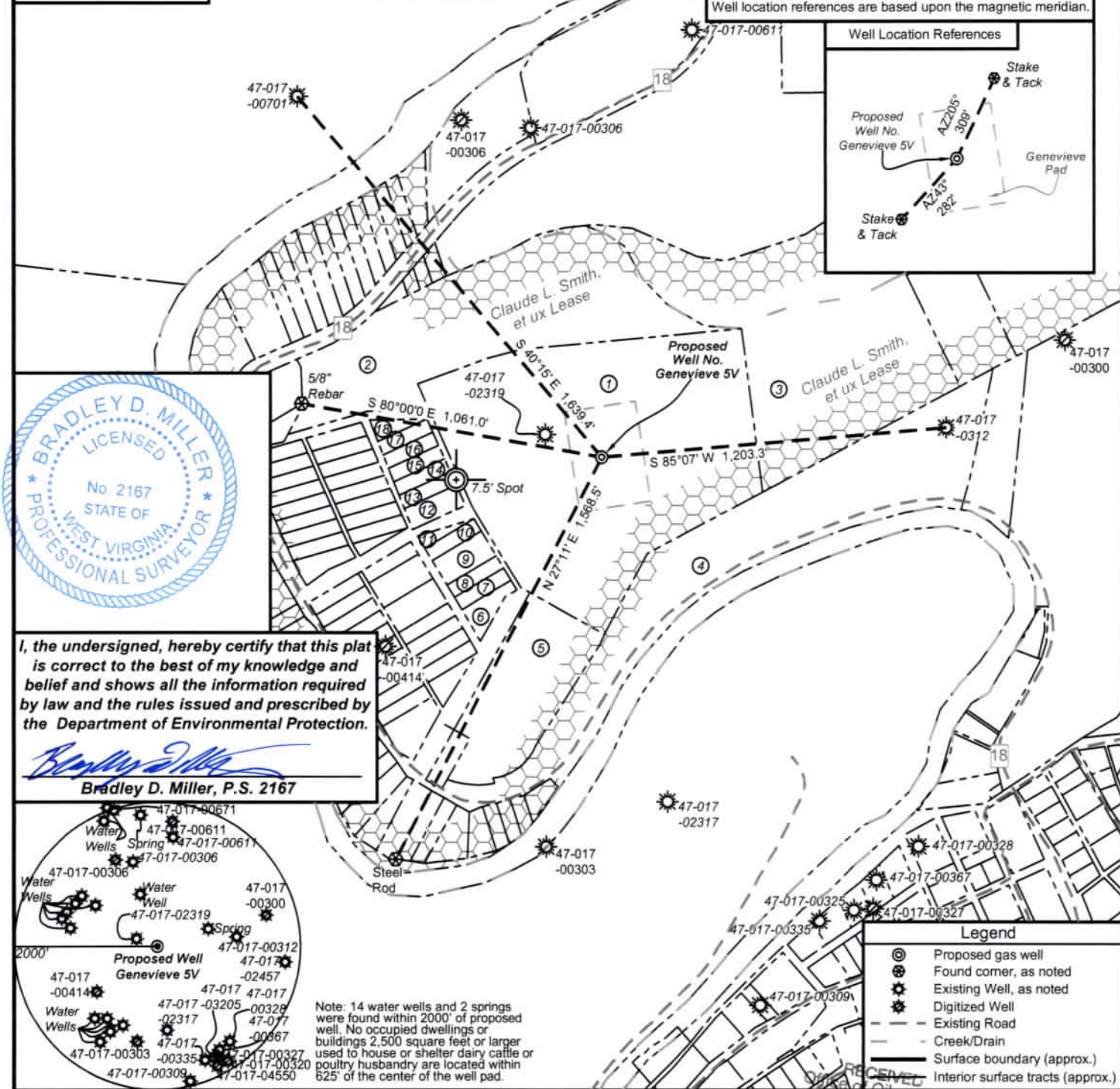
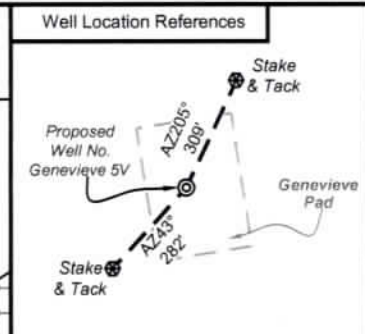


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167



Note: 14 water wells and 2 springs were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Legend

- ⊙ Proposed gas well
- ⊗ Found corner, as noted
- ⊛ Existing Well, as noted
- ⊙ Digitized Well
- - - Existing Road
- - - Creek/Drain
- - - Surface boundary (approx.)
- - - Interior surface tracts (approx.)

FILE NO: 58-30-WU-14
 DRAWING NO: Genevieve 5V Well Plat
 SCALE: 1" = 500'
 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: April 22 2022
 OPERATOR'S WELL NO. Genevieve 5V
 API WELL NO
 47 - 017 - 06940
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: Existing: 885' Proposed: 885' WATERSHED: Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union Antero COUNTY: Doddridge 11/25/2022
 SURFACE OWNER: Resources Corp. ACREAGE: 16.5
 ROYALTY OWNER: Claude L. Smith, et ux LEASE NO: ACREAGE: 90

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,300' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,300' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

Operator's Well Number Genevieve Unit 5V

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Claude L. Smith, et ux Lease</u>			
Claude L. Smith, et ux	Key Oil Company	1/8	0104/0704
Key Oil Company	XOIL Drilling Partners LP	Assignment	0105/0566
XOIL Drilling Partners LP	XPLOR Corporation	Assignment	0146/0649
XPLOR Corporation	Venus Exploration Inc	Merger	WV SDS
Venus Exploration Inc	Allegheny Interests Inc	Assignment	0184/0512
Allegheny Interests Inc	Rubin Resources Inc	Assignment	0187/0685
Rubin Resources, Inc	Petro Edge Energy LLC	Assignment	0230/0666
Petro Edge Energy LLC	Statoil USA Onshore Properties	Assignment	0285/0071
Statoil USA Onshore Properties	EQT Production Company	Assignment	0428/0356
EQT Production Company	Antero Resources Corporation	Agreement	0385/0268

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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. Genevieve Unit 5V

**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
<u>Claude L. Smith, et ux Lease</u>	Claude L. Smith, et ux	Key Oil Company	1/8	0104/0704
	Key Oil Company	XOIL Drilling Partners LP	Assignment	0105/0566
	XOIL Drilling Partners LP	XPLOR Corporation	Assignment	0146/0649
	XPLOR Corporation	Venus Exploration Inc	Merger	WV SOS
	Venus Exploration Inc	Allegheny Interests Inc	Assignment	0184/0512
	Allegheny Interests Inc	Rubin Resources Inc	Assignment	0187/0685
	Rubin Resources Inc	Petro Edge Energy LLC	Assignment	0230/0666
	Petro Edge Energy LLC	Statoil USA Onshore Properties	Assignment	0285/0071
	Statoil USA Onshore Properties	EQT Production Company	Assignment	0428/0356
	EQT Production Company	Antero Resources Corporation	Agreement	0385/0268

*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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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.

Well Operator: Antero Resources Corporation

By: Tim Rady

Its: SR VP of Land

4701706940

October 13, 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: Genevieve Unit 5V
Quadrangle: West Union 7.5'
Doddridge County/West Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Genevieve Unit 5V 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 Genevieve Unit 5V horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,



Tyler Adams
Landman

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OCT 20 2022

WV Department of
Environmental Protection

11/25/2022

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

Date of Notice Certification: 10/18/2022

API No. 47- 017 -
Operator's Well No. Genevieve Unit 5V
Well Pad Name: Genevieve Pad

Notice has been given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>518782m</u>
County:	<u>Doddridge</u>		Northing:	<u>4350519m</u>
District:	<u>West Union</u>	Public Road Access:		<u>Route 18N</u>
Quadrangle:	<u>West Union 7.5'</u>	Generally used farm name:		<u>Antero Resources Corp</u>
Watershed:	<u>Headwaters Middle Island Creek</u>			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

OOG OFFICE USE ONLY	
<input type="checkbox"/>	RECEIVED/ NOT REQUIRED
<input type="checkbox"/>	RECEIVED
<input checked="" type="checkbox"/>	RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/>	RECEIVED
<input checked="" type="checkbox"/>	RECEIVED
<input checked="" type="checkbox"/>	RECEIVED

Required Attachments:

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

4701706940

Certification of Notice is hereby given:

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

Well Operator:	<u>Antero Resources Corporation</u>	Address:	<u>1615 Wynkoop Street</u>
By:	<u>Robert Odenthal</u>		<u>Denver, CO 80202</u>
Its:	<u>VP of Drilling</u>	Facsimile:	<u>303-357-7315</u>
Telephone:	<u>303-357-7310</u>	Email:	<u>mstanton@anteroresources.com</u>



Subscribed and sworn before me this 19 day of Oct 2022.
Diane Blair Notary Public
 My Commission Expires 27 Apr 2024

Oil and Gas Privacy Notice:

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

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 Office of Oil and Gas
 OCT 20 2022
 WV Department of
 Environmental Protection

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

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

Date of Notice: 10/19/2022 **Date Permit Application Filed:** 10/19/2022

Notice of:

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

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

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

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

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

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Office of Oil and Gas

OCT 20 2022

WV Department of
Environmental Protection

SURFACE OWNER(s)
Name: Antero Resources Corporation ✓
Address: 535 White Oaks Blvd.
Bridgeport, WV 26330-4649

Name: _____
Address: _____

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

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: _____

COAL OPERATOR
Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: _____

WATER PURVEYOR(s)/OWNER(s) OR WATER WELL SPRING OR OTHER WATER SUPPLY SOURCE

Name: NO WELLS WITHIN 1500'
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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 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)

4701706940
API NO. 47-017
OPERATOR WELL NO. Genevieve Unit 5V
Well Pad Name: Genevieve 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 **RECEIVED** 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. **Office of Oil and Gas**
OCT 20 2022

Written Comment:

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

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

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

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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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WW-6A
(8-13)

4701706940

API NO. 47-017 -
OPERATOR WELL NO. Genevieve Unit 5V
Well Pad Name: Genevieve Pad

Notice is hereby given by:

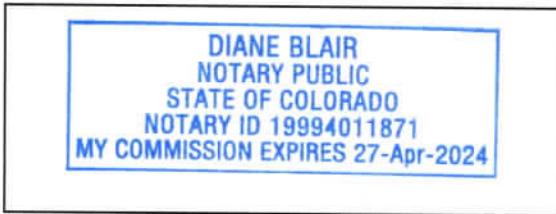
Well Operator: Antero Resources Corporation
Telephone: (303) 357-7310
Email: mstanton@anteroresources.com



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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 19 day of Oct, 2022.

Diane Blair Notary Public

My Commission Expires 27 Apr 2024

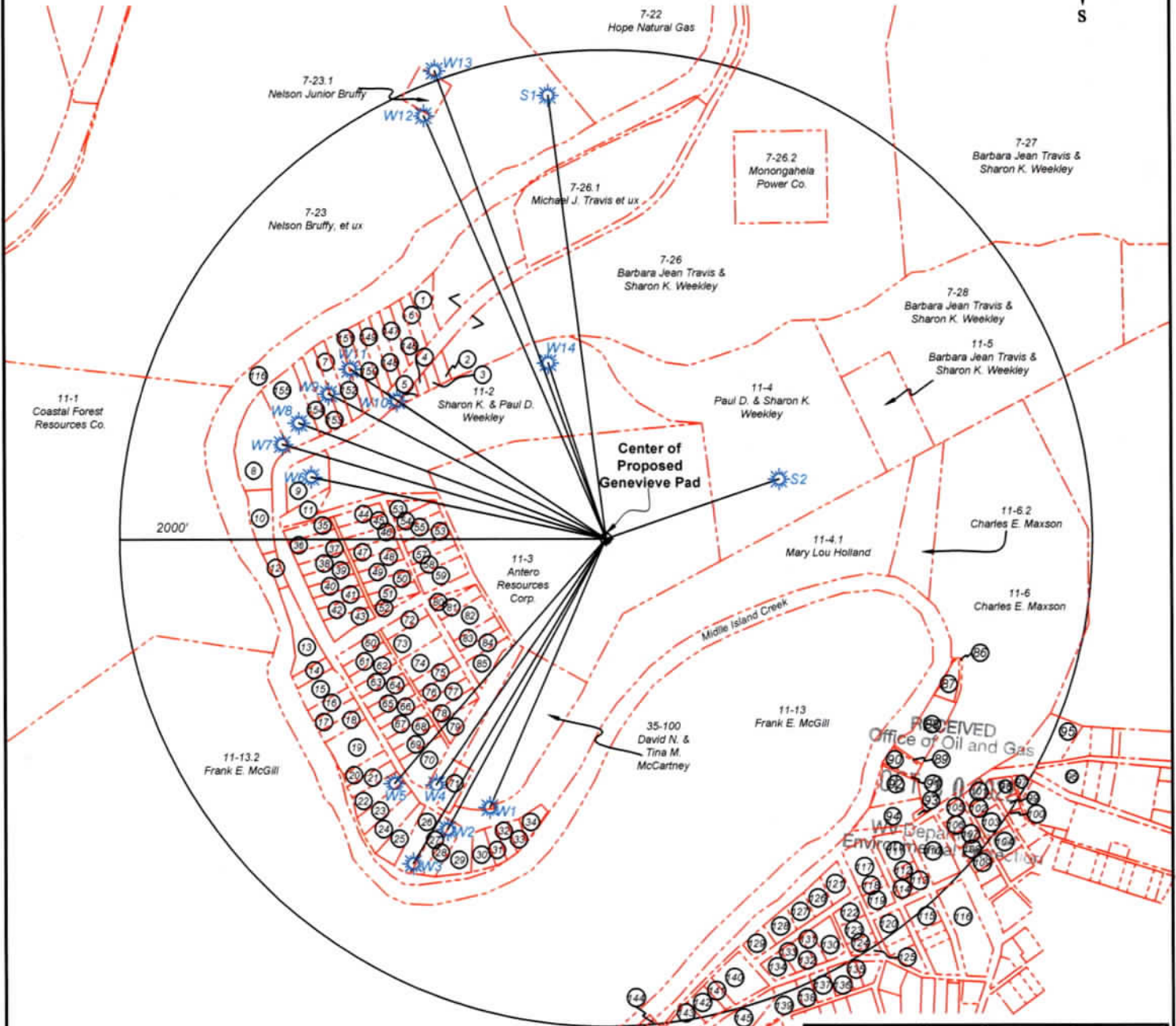
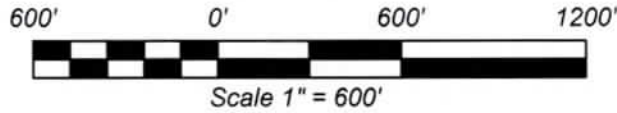
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Genevieve Drill Pad
Water Well Map
 Page 1 of 2



Owners

- S1. Nelson Bruffy, et ux, 312 Tonkin Station Rd, West Union, WV 26456
- S2. Paul D. & Sharon K. Weekley, 2374 WV Rt 18 N, West Union, WV 26456
- W1. David N. & Tina M. McCartney, 1874 WV Rt 18 N, West Union, WV 26456
- W2. Gregory A. & Denise I. Edgell, 1873 WV Rt 18 N, West Union, WV, 26456
- W3. Gregory A. & Denise I. Edgell, 1873 WV Rt 18 N, West Union, WV, 26456
- W4. Janice M. Ellifritt, PO Box 245, West Union, WV, 26456
- W5. Joshua A. & Kimberly D. Weekley, 1925 WV Rt 18 N, West Union, WV 26456
- W6. Volusia Ventures, LLC, PO Box 354, Williamstown, WV, 26187
- W7. Paul D. & Sharon K. Weekley, 2374 WV Rt 18 N, West Union, WV, 26546
- W8. Brandon Rogers, 2231 WV Rt 18 N, West Union, WV, 26456
- W9. Brandon Rogers, 2231 WV Rt 18 N, West Union, WV, 26456
- W10. Sharon K. & Paul D. Weekley, 2374 WV Rt 18 N, West Union, WV, 26456
- W11. Rebecca H. Nicholson, 2285 WV Route 18 N, West Union, WV, 26456
- W12. Nelson Bruffy, et ux, 312 Tonkin Station Rd, West Union, WV 26456
- W13. Nelson Bruffy, et ux, 312 Tonkin Station Rd, West Union, WV 26456
- W14. Sharon K. & Paul D. Weekley, 2374 WV Rt 18 N, West Union, WV, 26456

Tag	Azimuth	Dist.	Latitude	Longitude
S1	AZ352°43'	1,831.1'	39°18'31.26"	80°46'58.49"
S2	AZ71°12'	752.2'	39°18'15.83"	80°46'46.20"
W1	AZ203°36'	1,201.2'	39°18'02.39"	80°47'01.13"
W2	AZ208°51'	1,358.3'	39°18'01.49"	80°47'03.33"
W3	AZ210°57'	1,549.3'	39°18'00.09"	80°47'05.10"
W4	AZ214°49'	1,226.7'	39°18'03.28"	80°47'03.94"
W5	AZ221°02'	1,328.2'	39°18'03.31"	80°47'06.12"
W6	AZ281°50'	1,236.5'	39°18'15.67"	80°47'10.65"
W7	AZ286°19'	1,383.5'	39°18'16.99"	80°47'12.17"
W8	AZ290°40'	1,346.5'	39°18'17.86"	80°47'11.32"
W9	AZ297°37'	1,284.3'	39°18'19.06"	80°47'09.80"
W10	AZ303°30'	1,028.8'	39°18'18.83"	80°47'06.23"
W11	AZ303°34'	1,260.0'	39°18'20.07"	80°47'08.69"
W12	AZ336°49'	1,886.3'	39°18'30.37"	80°47'04.97"
W13	AZ340°00'	2,039.4'	39°18'32.18"	80°47'04.43"
W14	AZ342°00'	756.2'	39°18'20.43"	80°46'58.32"

11/25/2022

WW-6A Notice of Application Attachment (Genevieve Pad):**WATER SOURCE OWNERS: Within 2000'****TM 19-38.4 (all)**

1 Water Well: 1201.2' (W1)

Owner: David N. & Tina M. McCartney ✓**Address:** 1874 WV Rt 18 N
West Union, WV 26456**TM 19-38.5, 19-38.6**

2 Water Wells: 1358.3' (W2) & 1549.3' (W3)

Owner: Gregory A. & Denise I. Edgell ✓**Address:** 1873 WV Rt 18 N
West Union, WV 26456**TM 19-39**

1 Water Well: 1226.7' (W4)

Owner: Janice M. Ellifritt ✓**Address:** PO Box 245
West Union, WV 26456-0245**TM 19-40**

1 Water Well: 1328.2' (W5)

Owner: Joshua A. & Kimberly D. Weekley ✓**Address:** 1925 WV Rt 18 N
West Union, WV 26456**TM 25-03**

1 Water Well: 1236.5' (W6)

Owner: Volusia Ventures, LLC ✓**Address:** PO Box 354
Williamstown, WV 26187-0354**TM 19-43**

3 Water Wells: 1383.5' (W7) 1028.8' (W10) 758.2' (W14)

Owner: Paul D. & Sharon K. Weekley ✓**Address:** 2374 WV Rt 18 N
West Union, WV 26456**TM 19-38.5, 19-38.6**

2 Water Wells: 11346.5' (W8) & 1284.3' (W9)

Owner: Brandon Rogers ✓**Address:** 2231 WV Rt 18 N
West Union, WV 26456RECEIVED
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WW-6A Notice of Application Attachment (Genevieve Pad):**TM 19-43**

1 Water Well: 1383.5' (W11)

Owner: Rebecca H. Nicholson**Address:** 2285 WV Rt 18 N
West Union, WV 26456**TM 19-43**

1 Water Well: 1886.3' (W12)

Owner: Nelson Bruffy, et ux**Address:** 312 Tonkin Station Rd
West Union, WV 26456**SPRING SOURCE OWNERS: Within 2000'****TM 19-43**

1 Spring Well: 1831.1' (S1)

Owner: Nelson Bruffy, et ux**Address:** 312 Tonkin Station Rd
West Union, WV 26456**TM 19-43**

1 Spring Well: 752.2' (S2)

Owner: Paul D. & Sharon K. Weekley**Address:** 2374 WV Rt 18 N
West Union, WV 26456

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11/25/2022

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 03/25/2022 **Date Permit Application Filed:** 10/19/2022

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

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

Name: Antero Resources Corporation Name: _____
Address: 535 White Oaks Blvd Address: _____
Bridgeport, WV 26330-4649

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 518782m
County: Doddridge Northing: 4350519m
District: West Union Public Road Access: Route 18 N
Quadrangle: West Union 7.5' Generally used farm name: Antero Resources
Watershed: Headwaters Middle Island Creek

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: Antero Resources Corporation Authorized Representative: Mallory Stanton
Address: 1615 Wynkoop St. Address: 1615 Wynkoop St.
Denver, CO 80202 Denver, CO 80202
Telephone: 303-357-7310 Telephone: 303-357-7310
Email: mstanton@anteroresources.com Email: mstanton@anteroresources.com
Facsimile: 303-357-7315 Facsimile: 303-357-7315

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OCT 20 2022
WV Department of Environmental Protection

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 10/19/2022 **Date Permit Application Filed:** 10/19/2022

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

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Antero Resources Corporation	Name: _____
Address: 535 White Oaks Blvd Bridgeport, WV 26330-4649	Address: _____

Notice is hereby given:

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

State: West Virginia	UTM NAD 83 Easting: 518782m
County: Doddridge	UTM NAD 83 Northing: 4350519m
District: West Union	Public Road Access: Route 18N
Quadrangle: West Union 7.5'	Generally used farm name: Antero Resources
Watershed: Headwaters Middle Island Creek	

This Notice Shall Include:

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

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Well Operator: Antero Resources Corporation	Address: 1615 Wynkoop Street	OCT 20 2022
Telephone: (303) 357-7310	Denver, CO 80202	
Email: mstanton@anteroresources.com	Facsimile: 303-357-7315	WV Department of Environmental Protection

Oil and Gas Privacy Notice:

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

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.

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Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>518782m</u>
County:	<u>Doddridge</u>		Northing:	<u>4350519m</u>
District:	<u>West Union</u>	Public Road Access:	<u>Route 18N</u>	
Quadrangle:	<u>West Union 7.5'</u>	Generally used farm name:	<u>Antero Resources</u>	
Watershed:	<u>Headwaters Middle Island Creek</u>			

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

*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: _____
Print Name: _____
Date: _____

FOR EXECUTION BY A CORPORATION, ETC.

Company: Antero Resources Corporation
By: Diana Hoff
Its: Senior VP of Operations

Signature: Diana O. Hoff
Date: 10/10/22

Oil and Gas Privacy Notice:

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

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

September 20, 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 Genevieve Pad, Doddridge County
Genevieve Unit 5V Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2019-0087 which has been issued to Antero Resources for access to the State Road for a well site located off West Virginia Route 18 F, MP 20.83 in Doddridge County.

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

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

RECEIVED
Office of Oil and Gas

OCT 20 2022

WV Department of
Environmental Protection

Cc: Diane Blair
Antero Resources
CH, OM, D4
File

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

FRACTURING/STIMULATING INTERVAL

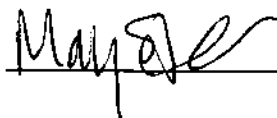
Additive	Chemical Abstract Service Number (CAS #)
1. Fresh Water	7732-18-5
2. 2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3. Ammonium Persulfate	7727-54-0
4. Anionic copolymer	Proprietary
5. Anionic polymer	Proprietary
6. BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7. Cellulase enzyme	(Proprietary)
8. Demulsifier Base	(Proprietary)
9. Ethoxylated alcohol blend	Mixture
10. Ethoxylated Nonylphenol	68412-54-4
11. Ethoxylated oleylamine	26635-93-8
12. Ethylene Glycol	107-21-1
13. Glycol Ethers	111-76-2
14. Guar gum	9000-30-0
15. Hydrogen Chloride	7647-01-0
16. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
17. Isopropyl alcohol	67-63-0
18. Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
19. Microparticle	Proprietary
20. Petroleum Distillates (BTEX Below Detect)	64742-47-8
21. Polyacrylamide	57-55-6
22. Propargyl Alcohol	107-19-7
23. Propylene Glycol	57-55-6
24. Quartz	14808-60-7
25. Sillica crystalline quartz	7631-86-9
26. Sodium Chloride	7647-14-5
27. Sodium Hydroxide	1310-73-2
28. Sugar	57-50-1
29. Surfactant	68439-51-0
30. Suspending agent (solid)	14808-60-7
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. Hexamethylene 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 acid)	23605-74-5
41. Diethylene Glycol	111-46-6
42. Methenamine	100-97-0
43. Polyethylene polyamine	68603-67-8
44. Coco amine	61791-14-8
45. 2-Propyn-1-olcompound with methyloxirane	38172-91-7

RECEIVED
Office of Oil and Gas
OCT 20 2022
WV Department of
Environmental Protection

WW-6A7
(6-12)

OPERATOR: Antero Resources Corporation WELL NO: Genevieve Unit 5V

PAD NAME: Genevieve Pad

REVIEWED BY: Mallory Stanton SIGNATURE: 

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
- DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
- DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
- DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
- Surface Owner Waiver and Recorded with County Clerk, OR
- DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
- Surface Owner Waiver and Recorded with County Clerk, OR
- DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
- Surface Owner Waiver and Recorded with County Clerk, OR
- DEP Variance and Permit Conditions

RECEIVED
Office of Oil and Gas
OCT 20 2022
Department of
Environmental Protection

11/25/2022

GENEVIEVE WELL PAD
ANTERO RESOURCES
ISSUE FOR REVIEW

LOCATION COORDINATES				
SITE LOCATIONS	WV83-NF (NORTH ZONE)		UTM83-17	
	LATITUDE	LONGITUDE	NORTHING	EASTING
MAIN ACCESS ROAD ENTRANCE	39.302526	-80.785822	4350370.9404	518466.7831
CENTROID OF WELL PAD	39.303788	-80.781830	4350511.7759	518810.6840
CENTROID OF AST	39.303897	-80.783625	4350523.5031	518655.8846

GENEVIEVE WELL PAD WELL PAD SITE PLAN ANTERO RESOURCES

LAT./LONG: N 39.303633° W -80.782660°
(APPROXIMATE CENTER OF PROJECT)

SHEET INDEX

1. COVER SHEET	15. PROFILE AND SECTIONS	28. PROFILE AND SECTIONS
2. GENERAL NOTES	16. PROFILE AND SECTIONS	29. PROFILE AND SECTIONS
3. DRAINAGE TABLES	17. PROFILE AND SECTIONS	30. TREE CLEARING PLAN
4. PROPERTY OWNERS	18. PROFILE AND SECTIONS	31. DETAILS
5. MASTER LEGEND	19. PROFILE AND SECTIONS	32. DETAILS
6. BORING LOGS	20. PROFILE AND SECTIONS	33. DETAILS
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8. BORING LOGS	22. PROFILE AND SECTIONS	35. DETAILS
9. EXISTING CONDITIONS	23. PROFILE AND SECTIONS	36. DETAILS
10. OVERALL SITE PLAN	24. PROFILE AND SECTIONS	37. DETAILS
11. SITE PLAN	25. PROFILE AND SECTIONS	38. DETAILS
12. SITE PLAN	26. PROFILE AND SECTIONS	39. OVERALL RECLAMATION PLAN
13. PAD GRADING PLAN	27. PROFILE AND SECTIONS	40. RECLAMATION PLAN
14. PROFILE AND SECTIONS		41. RECLAMATION PLAN

GENERAL DESCRIPTION:

THE ACCESS ROAD AND WELL PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:

THE PROPOSED SITE LOCATION IS **NOT WITHIN** ANY IDENTIFIED FLOOD ZONES. PER FEMA MAP NUMBER(S) #**54017C0120C**.

MISS UTILITY STATEMENT:

ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATION OF UTILITIES PRIOR TO THIS PROJECT DESIGN; TICKET #**1831163897**. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

STREAM AND WETLAND DELINEATIONS WERE PERFORMED ON 9/25/2018, 11/28/2018, 11/26/2018, & 8/29/2022 BY KLEINFELDER CONSULTANTS TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE STREAM AND WETLAND DELINEATION MAP WAS PREPARED BY ALL STAR ECOLOGY, LLC AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THE EXHIBIT PRIOR TO ENGAGING IN CONSTRUCTION ON THE PROPERTIES DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATER OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTES:

THE PROPOSED 2:1 SLOPES SHALL BE FIELD VERIFIED BY A CERTIFIED GEOTECHNICAL ENGINEER TO ENSURE THE PROPOSED SLOPES ARE ADEQUATE PRIOR TO CONSTRUCTION. ACCESS ROAD CONSTRUCTION SHALL BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OR PROJECT DESIGN ENGINEER DURING CONSTRUCTION.

PROJECT CONTACTS:

OPERATOR:

ANTERO RESOURCES CORPORATION
535 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE: (304) 842-4100
FAX: (304) 842-4102

ENGINEER/SURVEYOR:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
JOSEPH D. ROBINSON, PE - PROJECT MANAGER/ENGINEER
OFFICE: (304) 933-3119 FAX: (304) 933-3327 CELL: (443) 366-2006

ENVIRONMENTAL:

KLEINFELDER
MATT ALBRIGHT - ENVIRONMENTAL ENGINEER
OFFICE: (724) 200-7508 CELL: (609) 947-5296

GEOTECHNICAL:

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KOW ESHUN, PE - PROJECT MANAGER
OFFICE: (304) 933-3119 FAX: (304) 933-3327 CELL: (310) 774-1716

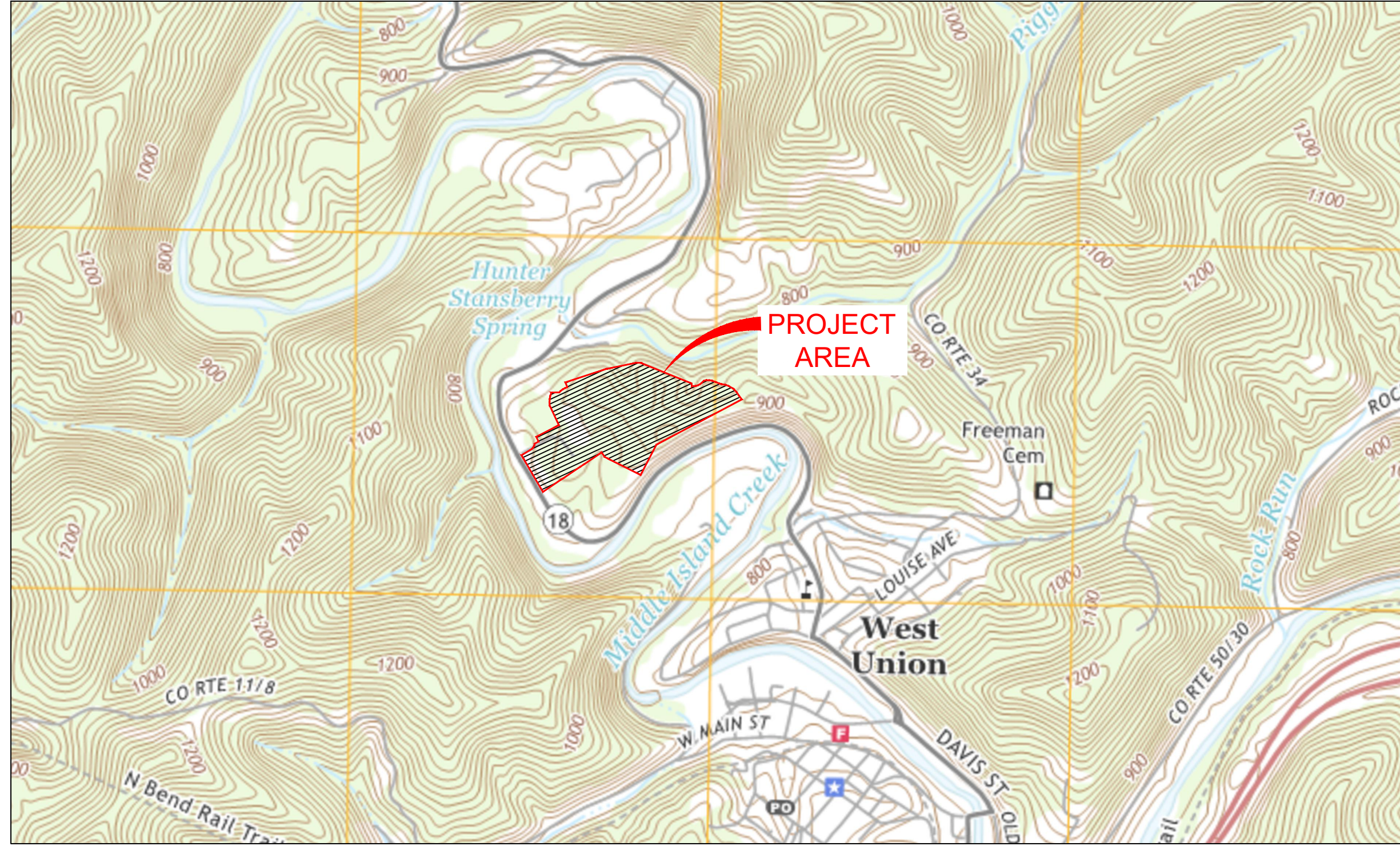
ELI WAGONER - ENVIRONMENTAL & REGULATORY MANAGER
OFFICE: (304) 842-4068 CELL: (304) 476-9770

AARON KUNZLER - CONSTRUCTION MANAGER
OFFICE: (405) 227-8344 CELL: (304) 641-8242

ROBERT WIRKS - DESIGN MANAGER
OFFICE: (304) 842-4100 CELL: (304) 627-7405

SCOTT HOFER - UTILITY SUPERVISOR
OFFICE: (740) 760-1012 CELL: (304) 615-8699

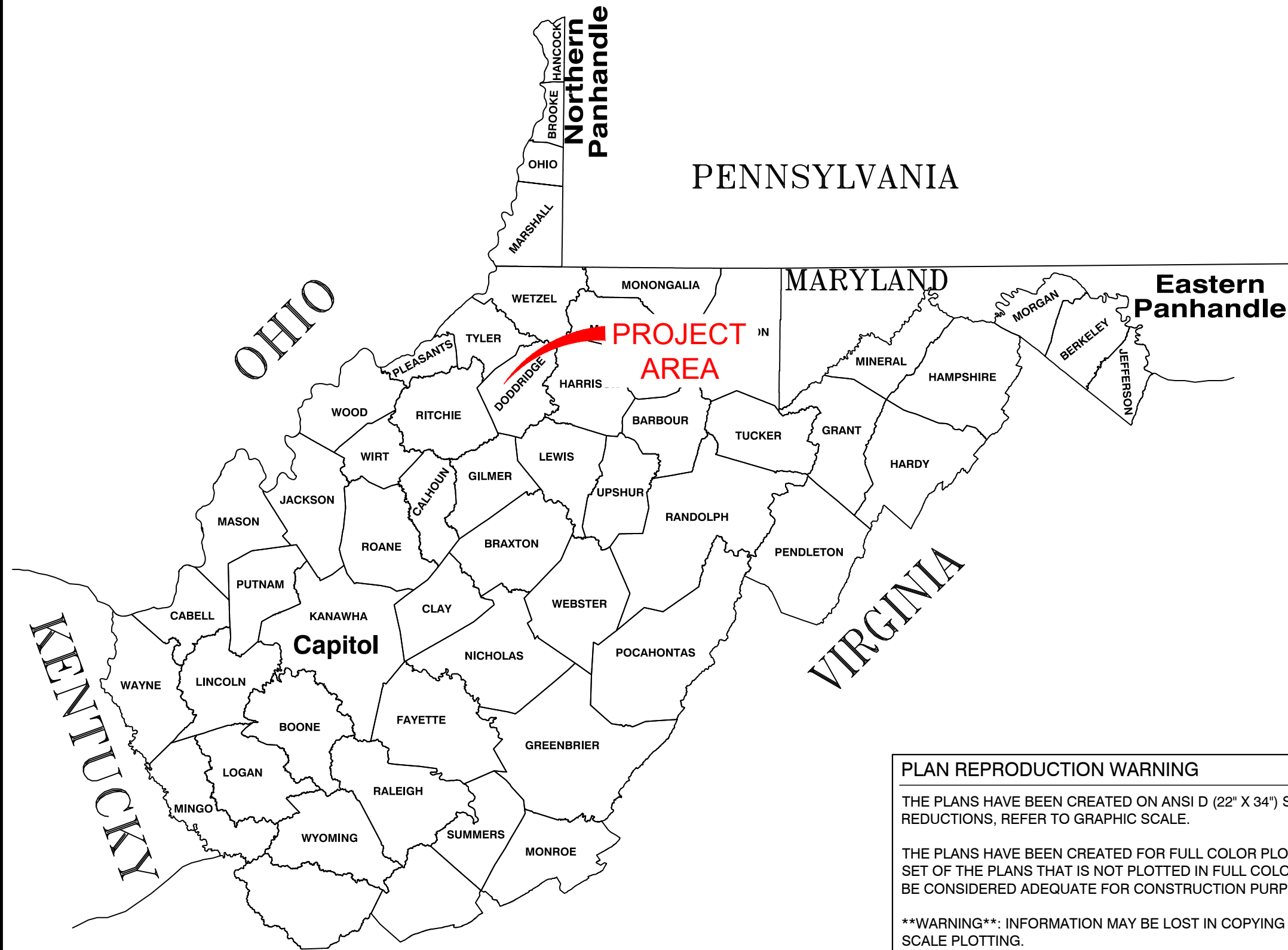
JOSH MINNICH - FIELD ENGINEER
OFFICE: (740) 760-1036 CELL: (740) 777-3686



LOCATION MAP

WEST UNION USGS 7.5' QUAD
SCALE IN FEET

0 1000 2000
1 INCH = 1000 FEET



PLAN REPRODUCTION WARNING

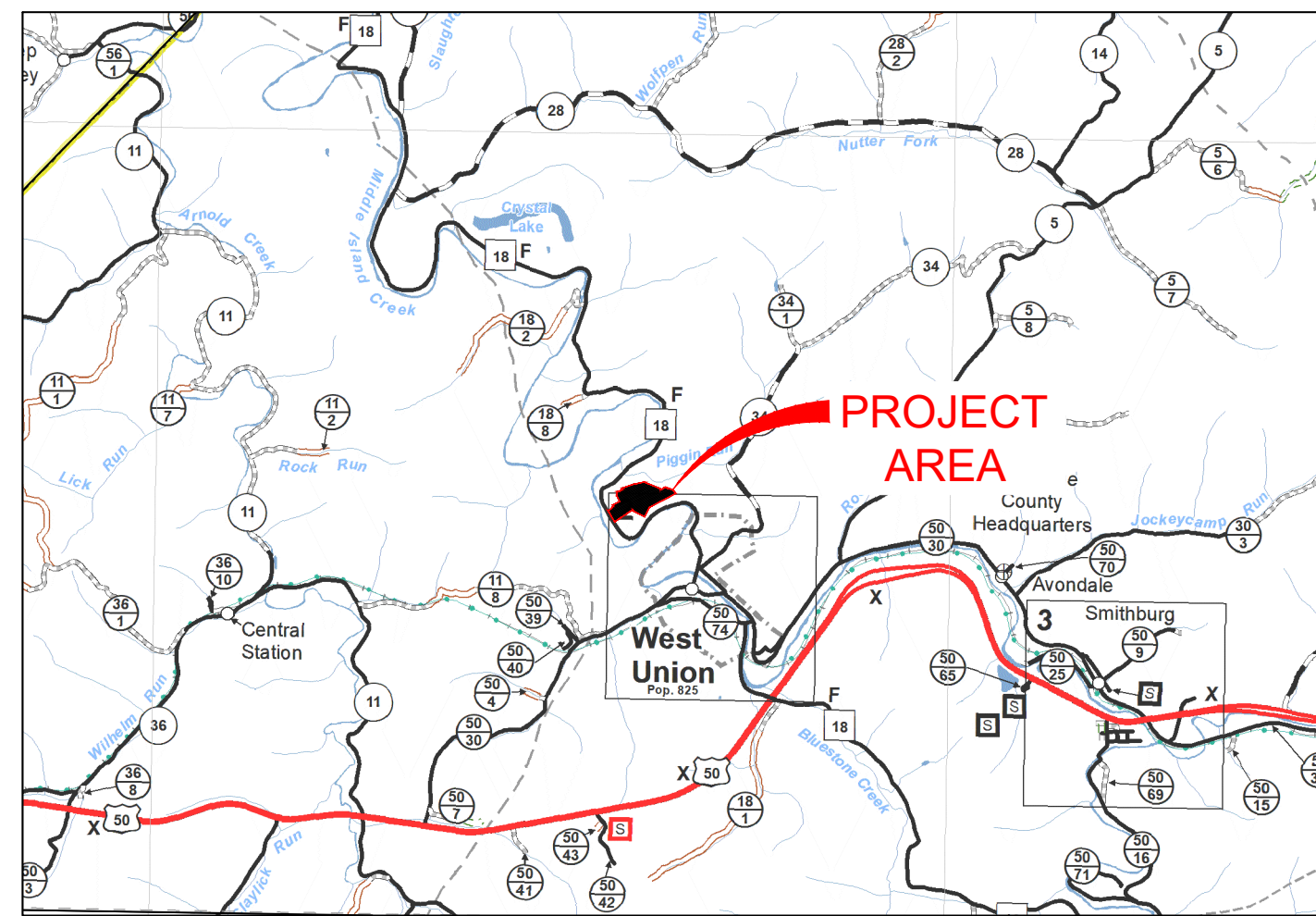
THE PLANS HAVE BEEN CREATED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

WARNING INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.



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



VICINITY MAP

DODDRIDGE COUNTY ROAD MAP
SCALE IN FEET

0 1 MILES 2 MILES
1 INCH = 1 MILE



RESTRICTIONS NOTES:

- THERE ARE NO LAKES OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD.
- THERE ARE EPHEMERAL STREAM AND WETLAND IMPACTS THAT WILL NEED TO BE PERMITTED BY THE APPROPRIATE AGENCIES.
- THERE ARE NO NATURALLY PRODUCING TROUT STEAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1,000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHING 250 FEET OF THE WELL(S) BEING DRILLED.
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

GENEVIEVE WELL PAD BANK GRADING VOLUMES			
DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)
MAIN ACCESS ROAD	4,848	12,026	-7,178
AST PAD ACCESS ROAD	87	741	-654
AST PAD	14,587	11,857	2,730
WELL PAD	34,526	32,688	1,838
TOTAL	54,048	57,312	-3,264

GENEVIEVE WELL PAD STOCKPILE CAPACITY		
	NEEDED	PROVIDED
EXCESS SPOIL	1,454	4,414
TOPSOIL / STRIPPING	14,907	18,739

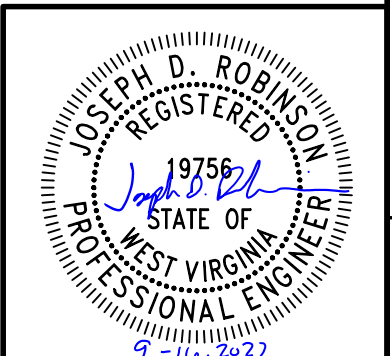
NOTE 1: EXCESS SPOIL CAPACITY NEEDED INCLUDES SWELL FACTORS FOR CUT MATERIAL
NOTE 2: TOPSOIL/STRIPPING THICKNESS FOR REMOVAL AND REPLACEMENT WAS CALCULATED WITH ESTIMATED DEPTH OF 12"

GENEVIEVE WELL PAD IMPACT TABLE				
STREAM AND WETLAND IMPACT TABLE				
NAME	TEMPORARY IMPACT	PERMANENT IMPACT	DESCRIPTION	TOTAL LENGTH
KLF-STREAM 01 (Ephemeral)	72 FT	0 FT	WITHIN LOD	72 FT
KLF-STREAM 06 (Ephemeral)	0 FT	93 FT	FILLED	93 FT
KLF-WETLAND 02 (PEM)	0.000 AC	0.010 AC	FILLED	0.010 AC
KLF-WETLAND 03 (PEM)	0.000 AC	0.021 AC	FILLED	0.021 AC
KLF-WETLAND 04 (PUB)	0.000 AC	0.012 AC	FILLED	0.012 AC
KLF-WETLAND 06 (PEM)	0.000 AC	0.013 AC	FILLED	0.013 AC
KLF-WETLAND 07 (PEM)	0.000 AC	0.021 AC	FILLED	0.021 AC

WELL LEGEND				
WELL HEAD	WV NORTH NAD 27	WV NORTH NAD 83	UTM-M	NAD 83
GENEVIEVE 5V	N: 295340.9920 E: 1637136.7650	N: 295376.3174 E: 1605695.5450	N: 4350519.596 E: 518782.907	LAT: 39.303859° LONG: -80.782152°

L.O.D. AREAS	
DESCRIPTION	ACRES
MAIN ACCESS ROAD	8.20
AST PAD ACCESS ROAD	1.32
GENEVIEVE WELL PAD	7.69
GENEVIEVE AST PAD	3.31
TOPSOIL PILE 1	1.84
TOPSOIL PILE 2	1.59
SPOIL PILE 1	0.91
TOTAL	24.86
TREE CLEARING	8.24

**APPROVED
WVDEP OOG**
11/21/2022



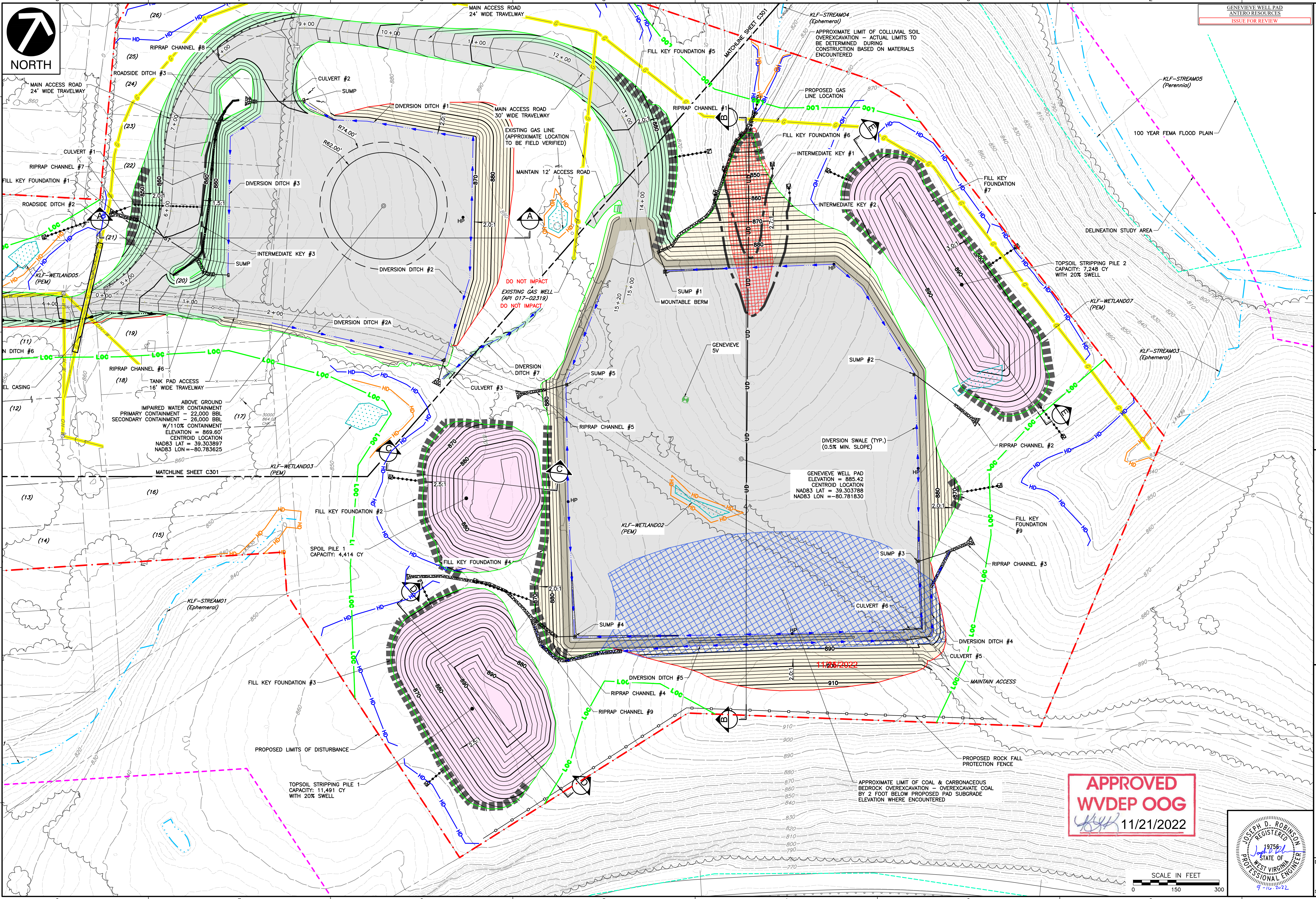
C&E
Civil & Environmental Consultants, Inc.
120 Genesis Boulevard - Bridgeport, WV 26330
Ph: 304.933.3119 - 855.488.9639 - Fax: 304.933.3327
www.cecinco.com

**ANTERO RESOURCES
GENEVIEVE WELL PAD
WEST UNION DISTRICT,
DODDRIDGE COUNTY, WV**

COVER SHEET

DATE: SEPTEMBER 2022
DRAWN BY: CMIC
DWG SCALE: AS NOTED
CHECKED BY: ER
PROJECT NO: 322-514
APPROVED BY: JDR

DRAWING NO: **C000**
SHEET 1 OF 41



P:\1320-000\1320-514-CAD02\DWG\C302\1320-514-C302-SITE PLAN.dwg(1320-514-C302) (S:\9\11\2022 - eocannon) - LP: 9/16/2022 10:39 AM



GENEVIEVE WELL PAD
ANTERO RESOURCES
ISSUE FOR REVIEW

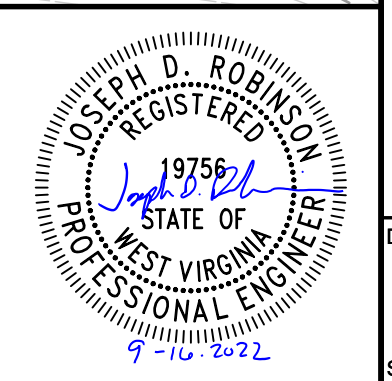
NO.	DATE	DESCRIPTION

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ANTERO RESOURCES
GENEVIEVE WELL PAD
WEST UNION DISTRICT
DODDRIDGE COUNTY, WV

SITE PLAN	
DATE:	SEPTEMBER 2022
DWG SCALE:	AS NOTED
PROJECT NO.:	322-514
APPROVED BY:	JDR

APPROVED
WVDEP OOG
 11/21/2022



SCALE IN FEET
0 150 300

GENEVIEVE WELL PAD WELL PAD SITE PLAN ANTERO RESOURCES

LAT./LONG: N 39.303633° W -80.782660°
(APPROXIMATE CENTER OF PROJECT)

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OPERATOR:
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535 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE: (304) 842-4100
FAX: (304) 842-4102

ENGINEER/SURVEYOR:
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JOSEPH D. ROBINSON, PE - PROJECT MANAGER/ENGINEER
OFFICE: (304) 933-3119 FAX: (304) 933-3327 CELL: (443) 366-2609

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MATT ALBRIGHT - ENVIRONMENTAL ENGINEER
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REGULATORY MANAGER:
ELI WAGONER - ENVIRONMENTAL & REGULATORY MANAGER
OFFICE: (304) 842-4068 CELL: (304) 476-9770

CONSTRUCTION MANAGER:
AARON KUNZLER - CONSTRUCTION MANAGER
OFFICE: (405) 227-8344 CELL: (304) 641-5242

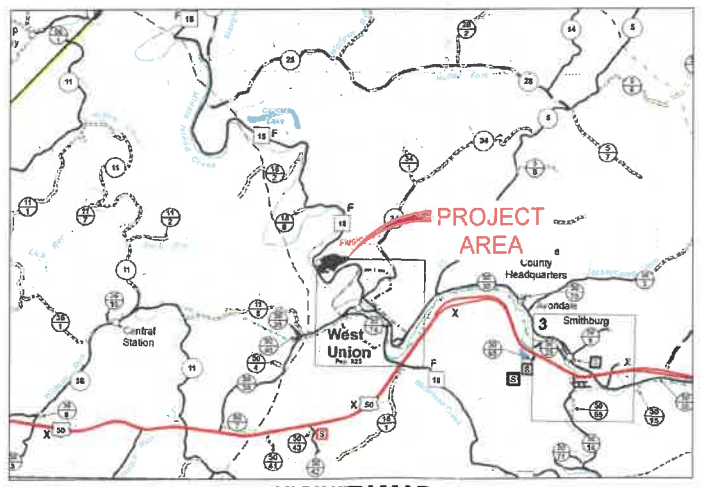
DESIGN MANAGER:
ROBERT WRKS - DESIGN MANAGER
OFFICE: (304) 842-4100 CELL: (304) 627-7405

UTILITY SUPERVISOR:
SCOTT HOFER - UTILITY SUPERVISOR
OFFICE: (740) 780-1012 CELL: (304) 615-8699

FIELD ENGINEER:
JOSH MINNICH - FIELD ENGINEER
OFFICE: (740) 780-1038 CELL: (740) 777-3686



LOCATION MAP
WEST UNION USGS 7.5' QUAD
SCALE IN FEET
0 1000 2000
1 INCH = 1000 FEET



VICINITY MAP
DODDRIDGE COUNTY ROAD MAP
SCALE IN FEET
0 1 MILES 2 MILES
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8. BORING LOGS	22. PROFILE AND SECTIONS	35. DETAILS
9. EXISTING CONDITIONS	23. PROFILE AND SECTIONS	36. DETAILS
10. OVERALL SITE PLAN	24. PROFILE AND SECTIONS	37. DETAILS
11. SITE PLAN	25. PROFILE AND SECTIONS	38. DETAILS
12. SITE PLAN	26. PROFILE AND SECTIONS	39. OVERALL RECLAMATION PLAN
13. PAD GRADING PLAN	27. PROFILE AND SECTIONS	40. RECLAMATION PLAN
14. PROFILE AND SECTIONS		41. RECLAMATION PLAN

RESTRICTIONS NOTES:

- THERE ARE NO LAKES OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD.
- THERE ARE EPHEMERAL STREAM AND WETLAND IMPACTS THAT WILL NEED TO BE PERMITTED BY THE APPROPRIATE AGENCIES.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1,000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

GENEVIEVE WELL PAD BANK GRADING VOLUMES

DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)
MAIN ACCESS ROAD	4,848	12,026	-7,178
AST PAD ACCESS ROAD	87	741	-654
AST PAD	14,587	11,857	2,730
WELL PAD	34,526	32,888	1,638
TOTAL	54,048	57,312	-3,264

GENEVIEVE WELL PAD STOCKPILE CAPACITY

DESCRIPTION	NEEDED	PROVIDED
EXCESS SPOIL	1,454	4,414
TOPSOIL / STRIPPING	14,907	18,739

NOTE 1: EXCESS SPOIL CAPACITY NEEDED INCLUDES SWELL FACTORS FOR CUT MATERIAL.
NOTE 2: TOPSOIL/STRIPPING THICKNESS FOR REMOVAL AND REPLACEMENT WAS CALCULATED WITH ESTIMATED DEPTH OF 12"

GENEVIEVE WELL PAD IMPACT TABLE

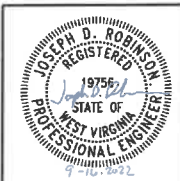
NAME	STREAM AND WETLAND IMPACT TABLE		DESCRIPTION	TOTAL LENGTH
	TEMPORARY IMPACT	PERMANENT IMPACT		
KLF-STREAM 01 (Ephemeral)	72 FT	0 FT	WITHIN LOD	72 FT
KLF-STREAM 06 (Ephemeral)	0 FT	93 FT	FILLED	93 FT
KLF-WETLAND 02 (PEM)	0.000 AC	0.010 AC	FILLED	0.010 AC
KLF-WETLAND 03 (PEM)	0.000 AC	0.021 AC	FILLED	0.021 AC
KLF-WETLAND 04 (PUB)	0.000 AC	0.012 AC	FILLED	0.012 AC
KLF-WETLAND 06 (PEM)	0.000 AC	0.013 AC	FILLED	0.013 AC
KLF-WETLAND 07 (PEM)	0.000 AC	0.021 AC	FILLED	0.021 AC

WELL LEGEND

WELL HEAD	WV NORTH NAD 27	WV NORTH NAD 83	UTM-M	NAD 83
GENEVIEVE SV	N: 295340.9920 E: 1637136.7650	N: 295376.3174 E: 1605695.5450	N: 4350519.596 E: 518782.907	LAT: 39.303859° LONG: -80.782152°

L.O.D. AREAS

DESCRIPTION	ACRES
MAIN ACCESS ROAD	8.20
AST PAD ACCESS ROAD	1.32
GENEVIEVE WELL PAD	7.69
GENEVIEVE AST PAD	3.31
TOPSOIL PILE 1	1.84
TOPSOIL PILE 2	1.59
SPOIL PILE 1	0.91
TOTAL	24.86
TREE CLEARING	8.24



COVER SHEET

DATE: SEPTEMBER 2022 DRAWN BY: CMC
AS NOTED CHECKED BY: ER
PROJECT NO: 322-514
APPROVED BY: JDR

DRAWING NO: **C000**

SHEET 1 OF 41

Civil & Environmental Consultants, Inc.
120 Genesis Boulevard - Bridgeport, WV 26330
Ph: 304.933.3119 - 855.488.9539 - Fax: 304.933.3327
www.ccecinc.com

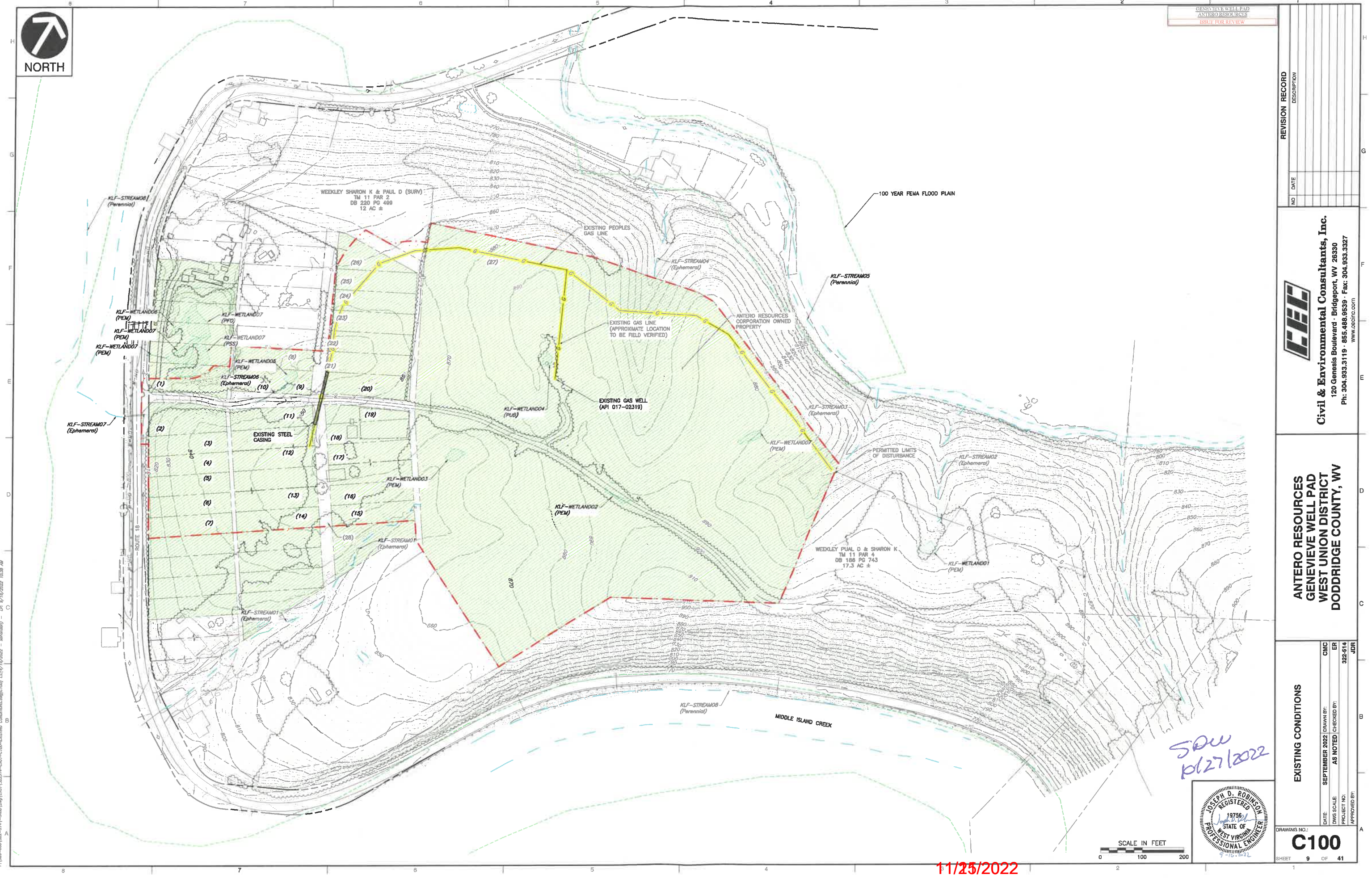
**ANTERO RESOURCES
GENEVIEVE WELL PAD
WEST UNION DISTRICT
DODDRIDGE COUNTY, WV**

11/25/2022



NORTH

GENEVIEW WELL PAD
ANTERO RESOURCES
ISSUE FOR REVIEW



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*SDW
10/27/2022*



SCALE IN FEET
0 100 200

11/25/2022

NO.	DATE	DESCRIPTION

C&E
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**ANTERO RESOURCES
 GENEVIEW WELL PAD
 WEST UNION DISTRICT
 DODDRIDGE COUNTY, WV**

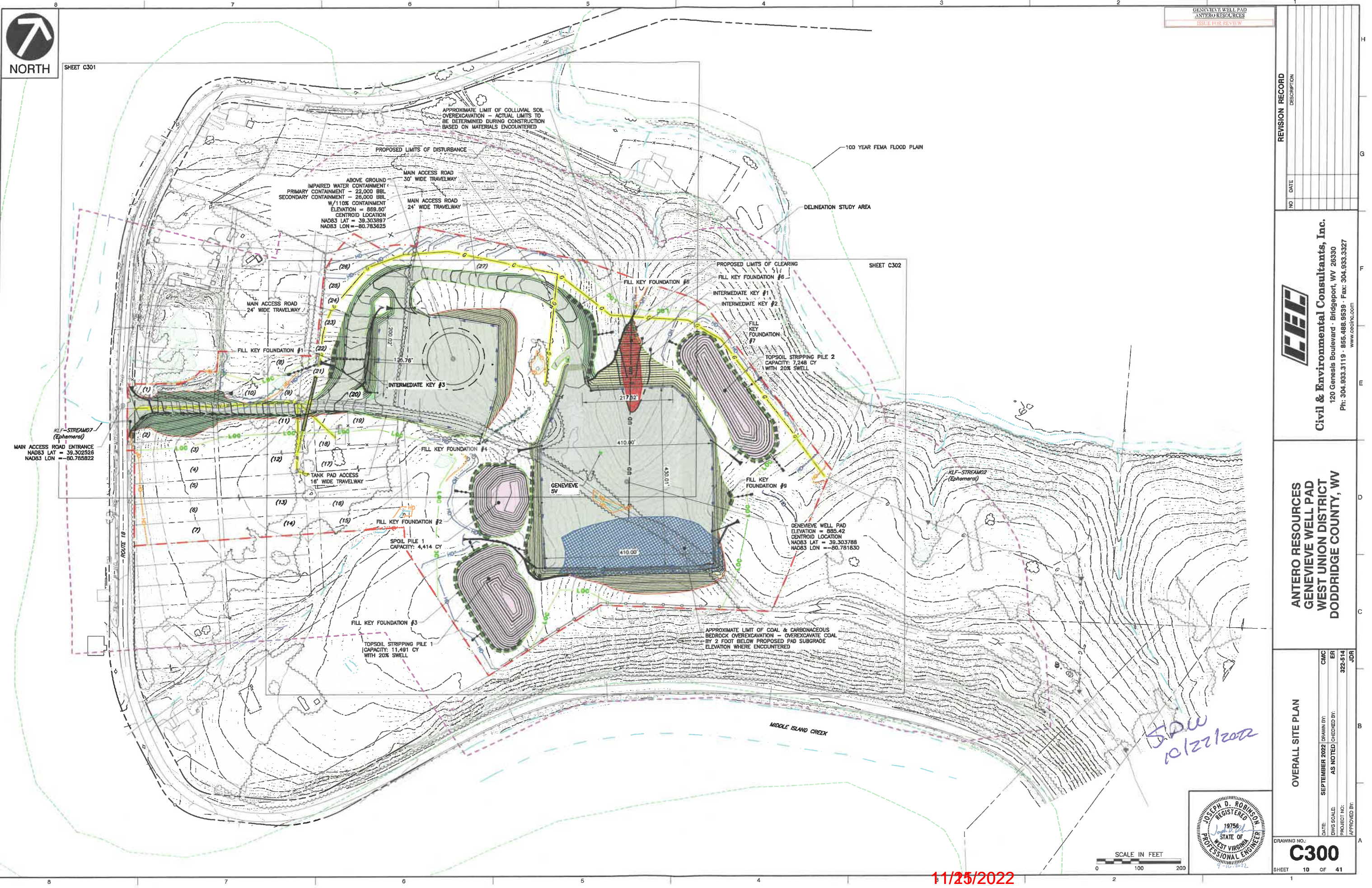
EXISTING CONDITIONS	
DATE:	SEPTEMBER 2022
DWG SCALE:	AS NOTED
PROJECT NO.:	322-514
APPROVED BY:	JDR

DRAWING NO.:
C100
 SHEET 9 OF 41



SHEET C301

GENEVEVE WELL PAD
ANTERO RESOURCES
ISSUE FOR REVIEW



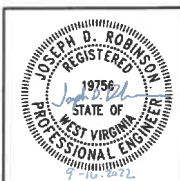
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CEE
Civil & Environmental Consultants, Inc.
 120 Genesis Boulevard - Bridgeport, WV 26330
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 www.ceeinc.com

ANTERO RESOURCES
GENEVEVE WELL PAD
WEST UNION DISTRICT
DODDRIDGE COUNTY, WV

DATE	CMC	ER	JDR
SEPTEMBER 2022			



SCALE IN FEET
0 100 200

OVERALL SITE PLAN
 DRAWING NO.: **C300**
 SHEET 10 OF 41

11/25/2022

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10/22/2022



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ANTERO RESOURCES
GENEVIEVE WELL PAD
WEST UNION DISTRICT
DODDRIDGE COUNTY, WV

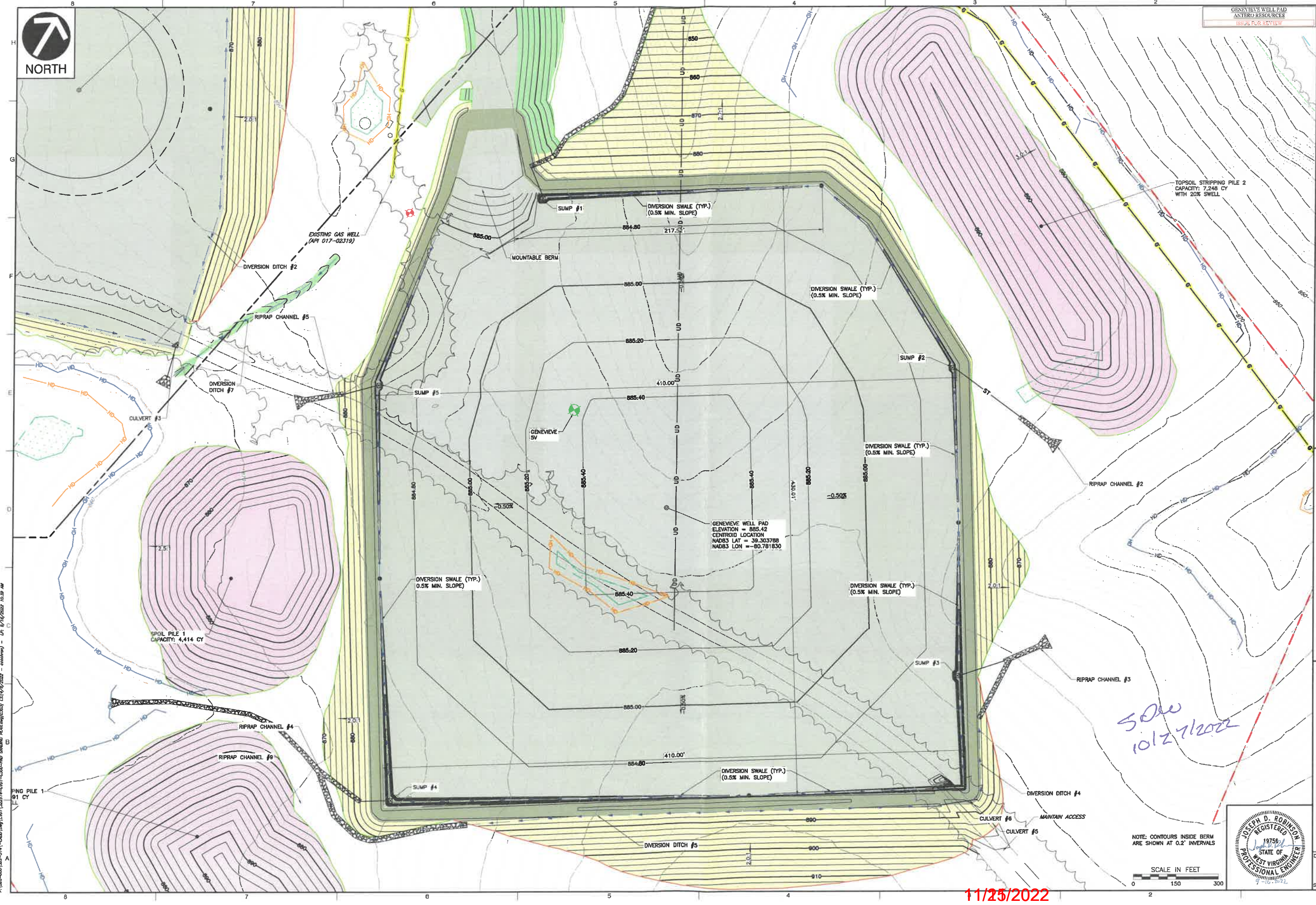
SITE PLAN

DRAWING NO: **C302**
SHEET 12 OF 41

11/25/2022



GENEVIEVE WELL PAD
ANTERO RESOURCES
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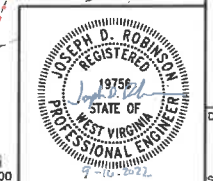
**ANTERO RESOURCES
GENEVIEVE WELL PAD
WEST UNION DISTRICT
DODDRIDGE COUNTY, WV**

PAD GRADING PLAN

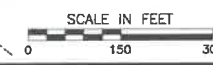
DWG NO: **C303**
SHEET 13 OF 41

DATE: SEPTEMBER 2022 DRAWN BY: CMC
AS NOTED CHECKED BY: ER
PROJECT NO: 322-514
APPROVED BY: JDR

*30w
10/27/2022*



NOTE: CONTOURS INSIDE BERM
ARE SHOWN AT 0.2' INTERVALS



11/25/2022

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