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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, April 25, 2025  
WELL WORK PERMIT  
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC  
6031 WALLACE RD EXT., SUITE 101

WEXFORD, PA 15090

Re: Permit approval for Tippecanoe 201  
47-033-06096-00-00

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

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

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



James A. Martin  
Chief

Operator's Well Number: Tippecanoe 201  
Farm Name: Atlas Shrugging LLC  
U.S. WELL NUMBER: 47-033-06096-00-00  
Horizontal 6A New Drill  
Date Issued: 4/25/2025

Promoting a healthy environment.

04/25/2025

# PERMIT CONDITIONS

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

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## CONDITIONS

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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. 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. Also, 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.

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

1) Well Operator: <u>Arsenal Resources</u>	494519412	Harrison	Clay-Outside	Shinnston
	Operator ID	County	District	Quadrangle

2) Operator's Well Number: 201 Well Pad Name: Tippecanoe

3) Farm Name/Surface Owner: Atlas Shrugging LLC Public Road Access: US 19 (Hood Ave)

4) Elevation, current ground: 1057 Elevation, proposed post-construction: 1068

5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐  
Other ☐  
(b) If Gas Shallow ☒ Deep ☐  
Horizontal ☒

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale, Top 7280 ft Base 7375 ft, Anticipated Thickness 95 ft, Associated Pressure 0.5 psi/ft

8) Proposed Total Vertical Depth: 7360 ft

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 10764 ft

11) Proposed Horizontal Leg Length: 613 ft

12) Approximate Fresh Water Strata Depths: 10', 20', 125', 164', 340', 713'

13) Method to Determine Fresh Water Depths: Offsetting well reported water depths (033-04217, 033-04207, 033-03581, 033-04221)

14) Approximate Saltwater Depths: None expected

15) Approximate Coal Seam Depths: Redstone - 130', Pittsburgh - 170'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void ~170'

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

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

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*Kenny Willett*

*3/25/25*



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	24	New	H-40	102.7	80	80	CTS
Fresh Water	13.375	New	J-55	54.5	800	800	CTS
Coal							
Intermediate	9.625	New	J-55	40	2750	2750	CTS
Production	5.5	New	P-110	23	10764	10764	TOC @ 2,600
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24	36			0	Class A/L, 3% CaCl2	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A/L, 3% CaCl2	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A/L, 3% CaCl2	1.29
Production	5.5	8.5-8.75	0.415	14,520	9,500	Class A/L, Poz	1.29/1.34
Tubing					5,000		
Liners							

**PACKERS**

Kind:				RECEIVED Office of Oil and Gas
Sizes:				MAR 25 2025
Depths Set:				WV Department of Environmental Protection

*Kenny Willott*

3/25/25



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

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and circulate cement back to surface. The conductor rig will move out and the drilling rig will move in and rig up. The drilling rig will then spud a 17 1/2" hole and drill to fresh water casing (Surface) to the programmed depth, Run 13- 3/8" casing and cement to surface. The rig will continue drilling a 12- 1/4" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig will then continue to drill an 8- 3/4" hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 1/2" casing and cement according to the program.

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

The well will be completed using a plug and perforation method and stimulated with a slickwater and sand slurry. The anticipated maximum rate will be 90 bpm and the maximum pressure will be 11,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 43.97

22) Area to be disturbed for well pad only, less access road (acres): 16.37

23) Describe centralizer placement for each casing string:

24" - No centralizers 13 3/8" - one bow spring centralizer on every other joint 9 5/8" - one bow spring centralizer every third joint from TD to surface 5 1/2" - one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,700'; there will be no centralizers from 2,700' to surface.

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

24" will be circulated to surface. The 13 3/8" casing will be cemented to surface with Class A/L cement and no greater than 3% CaCl<sub>2</sub> (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A/L cement, & no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 2,450' (+/- 150' above the casing shoe for the 9 5/8") with Class A/L Poz cement retarded (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right angle" set) during the plastic phase of the cement set-up.

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25) Proposed borehole conditioning procedures:

Top holes will be drilled with fresh water KOP. At KOP, the wellbore will be loaded with synthetic oil based mud, barite-weighted mud system with such properties as to build a filter-cake on the face of the bore-hole. This will provide lubricity as well as stabilizing the well bore. We will begin rotating the drill string and mud will be circulated upon reaching TD until no further cuttings are observed coming across the shaker screens. Once clean mud is circulated back to surface, we will pull three stands of drill pipe, load the hole, pull three stands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are noticed, we will re-run the previous stand of pipe pulled across and circulate 2x bottoms up while watching shakers for signs of cuttings. Once at the base curve, the string will be continuously rotated while pumping 2x bottoms up. We will pull three stands and fill the hole until we reach the vertical section of the well.

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\*Note: Attach additional sheets as needed.

Kenny Willett 3/3/25

4703306096

CEMENT ADDITIVES		
	Name	Purpose
Additive #1:	Bentonite	Helping fluid loss, reducing free water
Additive #2:	Calcium Chloride	Accelerator for low temp application
Additive #3:	Celloflake	Loss circulation additive
Additive #4:	Gypsum	Used for thixotropic properties
Additive #5:	Lignosulfonate	Low temp cement retarder
Additive #6:	Naphthalene Based Dispersant	Used to improve rheological properties of cement
Additive #7:	Cellulose	Help with fluid loss

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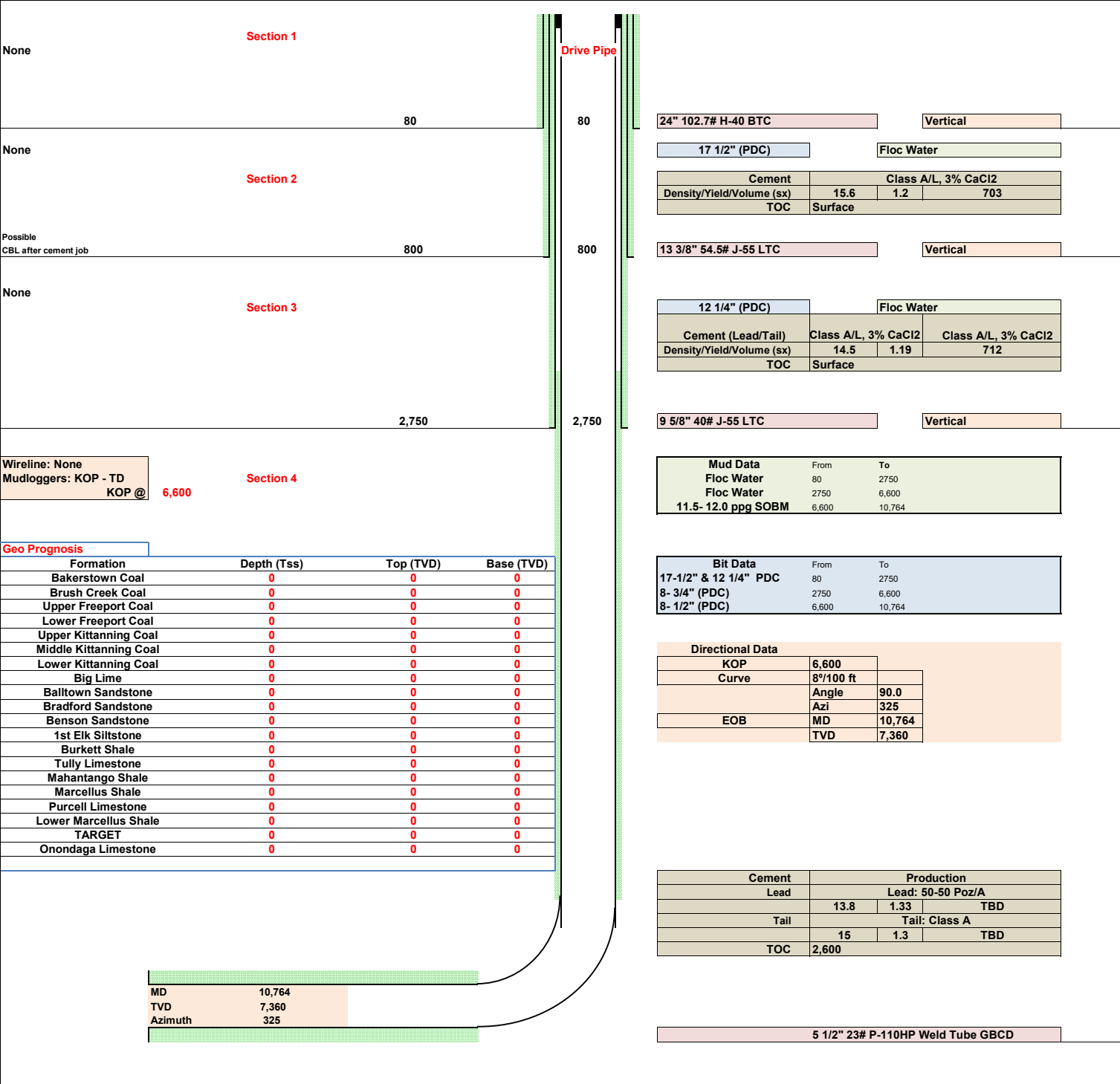


Arsenal Resources  
Tippecanoe #201  
Casing Design

Other Names:	Tippecanoe #201
Surface Location:	LAT 39.4047400N x Long 80.2931500 W
Bottom Hole Location:	LAT 39.4125022N x Long 80.2998457 W
Directional Plan Vs.	Permit Plan #1
Total Depth (MD)	10,764

County:	Harrison		
State:	WV		
AFE #:	000000	API #:	47-033-
RKB:	27		
Ground Level:	1068		

Logs	Significant Formations (TVD)	Depth (ft) MD	Depth (ft) TVD	Hole Size	Casing and Cement	Mud	Directional & Surveys Drig /Csg Point
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WW-9  
(4/16)

4703306096

API Number 47 -

Operator's Well No. Tippecanoe 201

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Arsenal Resources

OP Code 494519412

Watershed (HUC 10) Tributary to West Fork River

Quadrangle Shinnston

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: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes ☐ No ☐ If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- ☐ Land Application
- ☐ Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- ☒ Reuse (at API Number Various )
- ☐ Off Site Disposal (Supply form WW-9 for disposal location)
- ☐ Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: Yes, the closed loop system will contain all of the drilling medium and drill cuttings on location and then be taken to a landfill

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical: Freshwater, Horizontal: Oil based mud

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

Additives to be used in drilling medium? Bentonite, soap & polymer sticks, soda ash, sodium bicarbonate, defoamer, base oil, emulsifiers, lime, barite

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. 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/Waste Management, Westmoreland Sanitary Landfill, Apex Landfill

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 [Signature]

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Company Official (Typed Name) Dave Boyer

MAR 21 2025

Company Official Title Director of Geology & Development Planning

WV Department of  
Environmental Protection

Subscribed and sworn before me this 19th day of March, 20 25

Annmarie O'Connor

Notary Public

My commission expires 3/17/2026

Commonwealth of Pennsylvania - Notary Seal  
Annmarie O'Connor, Notary Public  
Allegheny County  
My commission expires March 17, 2026  
Commission number 1013839  
Member, Pennsylvania Association of Notaries

04/25/2025

Arsenal ResourcesProposed Revegetation Treatment: Acres Disturbed 43.97 Prevegetation pH 6.8 averageLime 2.67 Tons/acre or to correct to pH 6.4Fertilizer type 10-20-20Fertilizer amount 1000 lbs/acreMulch 3-4 Tons/acreSeed MixturesTemporary

Seed Type	lbs/acre
Orchard Grass	129
Rye	93
Clover	24
Timothy	45

Permanent

Seed Type	lbs/acre
Orchard Grass	129
Rye	93
Clover	24
Timothy	45

## 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: Kenny Willett

Comments: \_\_\_\_\_

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Environmental ProtectionTitle: Inspector Date: 3/3/25Field Reviewed? ☐ Yes ☒ No

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**ARSENAL**  
R E S O U R C E S

## **SITE SAFETY PLAN**

### **Tippecanoe Well Pad**

**911 Address:**

**1301 Hood Ave  
Shinnston, WV 26431**

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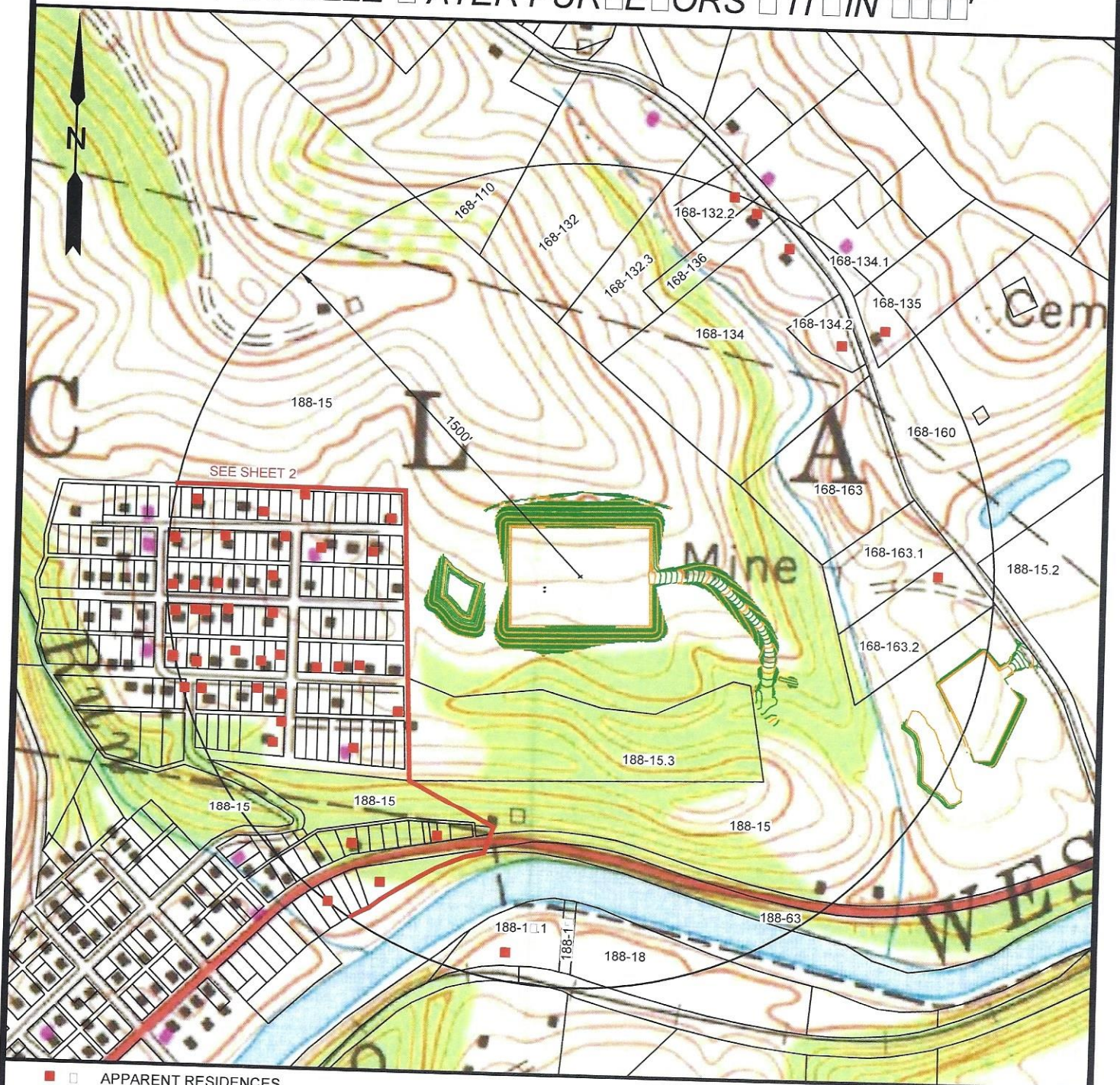
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*Kenny Willett* 3/3/25



# ARSENAL RESOURCES TIPPECANOE ELL PAD POSSIBLE ATER PUR EORS IT IN



■ □ APPARENT RESIDENCES



12 Vannhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.345.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slswv.com

TOPO SECTIONS:

SHINNSTON 15'

COUNTY	DISTRICT
HARRISON	CLAY

DRAWN BY	JOB NO.
C.P.M.	9489

OPERATOR:

PREPARED FOR:  
ARSENAL RESOURCES  
6031 WALLACE RD. EXT.  
SUITE 101  
WEXFORD, PA 15090

DATE	SCALE
11-24-2024	1" = 500'



04/25/2025

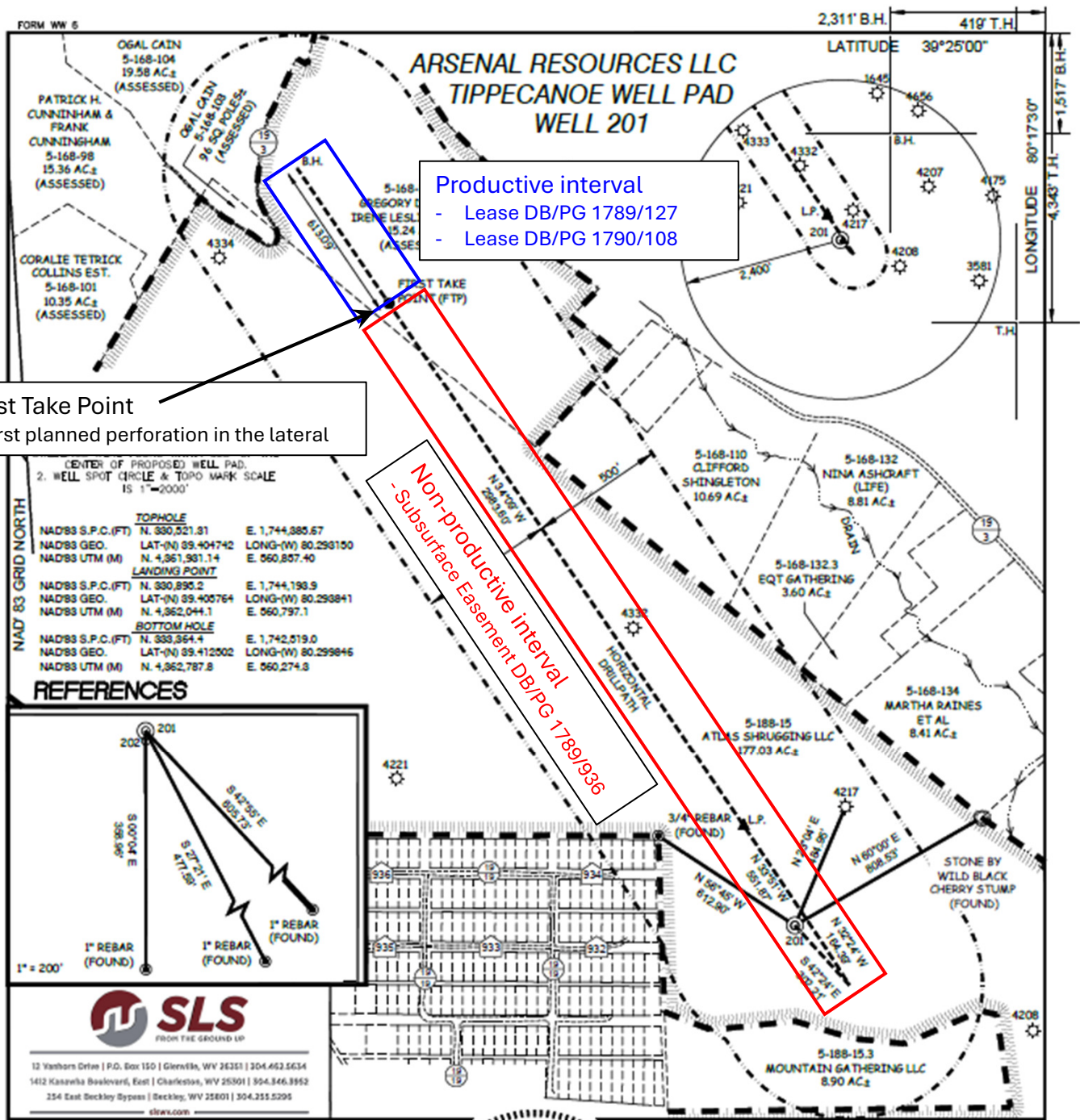


<b>WELL OPERATOR</b>	<u>ARSENAL RESOURCES</u>	<b>DESIGNATED AGENT</b>	<u>ERIC MORRIS</u>
<b>ADDRESS</b>	<u>6031 WALLACE RD. EXT. SUITE 200</u> WEXFORD, PA 15090	<b>ADDRESS</b>	<u>633 WEST MAIN STREET</u> BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT

515



Attachment to WW 6A-1, TIPPECANOE 201

NUMBER	PARCEL(S)	GRANTOR	GRANTEE	ACRES	ROYALTY %	DB / PG
A3412	47-033-05-188-15 47-033-05-188-6 47-033-05-188-63	ATLAS SHRUGGING LLC	ARSENAL RESOURCES	128.70	+12.5%	1789/936
B9376.001	47-033-05-168-108.1	CATHERINE M CAMPBELL	MAR KEY	16.00	+12.5%	1789/127
B9378.002	47-033-05-168-108.1	ROBERT GLENN POSEY	MAR KEY	16.00	+12.5%	1790/108

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See attached				

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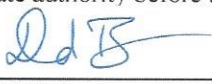
WV Department of  
Environmental Protection

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

Well Operator:   
By: Dave Boyer  
Its: Director of Geology & Development Planning

## WW6A-1 - TIPPECANOE 201

4703306096

## Attachment to WW 6A-1, TIPPECANOE 201

NUMBER	PARCEL(S)	GRANTOR	GRANTEE	ACRES	ROYALTY %	DB / PG
A3412	47-033-05-188-15 47-033-05-188-6 47-033-05-188-63	ATLAS SHRUGGING LLC	ARSENAL RESOURCES	128.70	+12.5%	1789/936
B9376.001	47-033-05-168-108.1	CATHERINE M CAMPBELL	MAR KEY	16.00	+12.5%	1789/127
B9378.002	47-033-05-168-108.1	ROBERT GLENN POSEY	MAR KEY	16.00	+12.5%	1790/108

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IN WITNESS WHEREOF, Arsenal, River Ridge, and River Ridge Holdings have caused their duly authorized representatives to execute this Agreement as of the Effective Date.

**ARSENAL RESOURCES LLC**

By: Joel E. Symonds  
Name: Joel E. Symonds  
Title: Vice President - Land

**RIVER RIDGE ENERGY, LLC**

By: Joel E. Symonds  
Name: Joel E. Symonds  
Title: Vice President - Land

**RIVER RIDGE HOLDINGS, LLC**

By: Joel E. Symonds  
Name: Joel E. Symonds  
Title: Vice President - Land



## West Virginia Secretary of State — Online Data Services

### Business and Licensing

Online Data Services Help

### Business Organization Detail

*NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information. If information is missing from this page, it is not in the The West Virginia Secretary of State's database.*

#### MAR KEY LLC

Organization Information								
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
LLC   Limited Liability Company	7/11/2011		7/11/2011	Domestic	Profit			

Organization Information			
<b>Business Purpose</b>	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction		<b>Capital Stock</b>
<b>Charter County</b>			<b>Control Number</b> 99Q1F
<b>Charter State</b>	WV	<b>Excess Acres</b>	
<b>At Will Term</b>	A	<b>Member Managed</b>	MBR
<b>At Will Term Years</b>	<b>Par Value</b>		
<b>Authorized Shares</b>	<b>Young Entrepreneur</b>		Not Specified

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## West Virginia Secretary of State — Online Data Services

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### Business Organization Detail

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### SENECA-UPSHUR PETROLEUM, LLC

Organization Information								
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
LLC   Limited Liability Company	2/12/1973		2/12/1973	Domestic	Profit			

Organization Information			
<b>Business Purpose</b>	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction		<b>Capital Stock</b>
<b>Charter County</b>			<b>Control Number</b> 0
<b>Charter State</b>	WV		<b>Excess Acres</b> 0
<b>At Will Term</b>	A		<b>Member Managed</b> MBR
<b>At Will Term Years</b>	<b>Par Value</b>		
<b>Authorized Shares</b>	<b>Young Entrepreneur</b>		Not Specified

04/25/2025

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Addresses	
Type	Address
<b>Designated Office Address</b>	633 W. MAIN STREET BRIDGEPORT, WV, 26330
<b>Mailing Address</b>	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA
<b>Notice of Process Address</b>	CORPORATION SERVICE COMPANY 209 WEST WASHINGTON STREET CHARLESTON, WV, 25302
<b>Principal Office Address</b>	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA
Type	Address

Officers	
Type	Name/Address
<b>Member</b>	RIVER RIDGE ENERGY, LLC 6031 WALLACE ROAD EXTENSION, SUITE 300 WEXFORD, PA, 15090
<b>Organizer</b>	TAMMY J OWEN 300 SUMMERS STREET, STE 1500 PO BOX 2107 CHARLESTON, WV, 25328 USA
Type	Name/Address

DBA			
DBA Name	Description	Effective Date	Termination Date
KEYSPAN PRODUCTION & DEVELOPMENT COMPANY	TRADENAME	6/11/2004	
NATIONAL GRID	TRADENAME	8/17/2007	

04/25/2025



NATIONAL GRID PRODUCTION AND DEVELOPMENT	TRADENAME	12/5/2008	5/9/2012
DBA Name	Description	Effective Date	Termination Date

Name Changes	
Date	Old Name
3/28/2011	SENECA-UPSHUR PETROLEUM, INC.
Date	Old Name

Date	Amendment
6/15/2016	AMENDMENT FILED CHANGING FROM A MANAGER-MANAGED CO. TO A MEMBER-MANAGED CO. >> REMOVED ROBERT KOZEL & STEPHEN A. BISHOP AS MANAGERS & ADDED SOLE MEMBER (C IMAGE).
3/28/2011	CONVERSION: FROM SENECA-UPSHUR PETROLEUM, INC. TO SENECA-UPSHUR PETROLEUM, LLC
7/25/1997	MERGER; MERGING LITTLE SWISS DRILLING COMPANY, A QUAL WV CORP AND PALACE VALLEY PETROLEUM COMPANY, A QUAL WV CORP WITH AND INTO SENECA-UPSHUR PETROLEUM, INC., A QUAL WV CORP, THE SURVIVOR.
Date	Amendment

Annual Reports
Filed For
2020
2019
2018
2017
2016
2015
2014
2013
2012
2011

04/25/2025

2010
2009
2008
2007
2006
2005
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1998
<b>Date filed</b>

[File Your Current Year Annual Report Online Here](#)

For more information, please contact the Secretary of State's Office at 304-558-8000.

Monday, March 1, 2021 — 9:40 AM

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Addresses	
Type	Address
<b>Designated Office Address</b>	633 W. MAIN STREET BRIDGEPORT, WV, 26330
<b>Mailing Address</b>	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA
<b>Notice of Process Address</b>	CORPORATION SERVICE COMPANY 209 WEST WASHINGTON STREET CHARLESTON, WV, 25302
<b>Principal Office Address</b>	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA
Type	Address

Officers	
Type	Name/Address
<b>Member</b>	ARSENAL RESOURCES DEVELOPMENT LLC 6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090
<b>Organizer</b>	PAUL M HERZING 560 EPSILON DR. PITTSBURGH, PA, 15238 USA
Type	Name/Address

Annual Reports	
Filed For	
2020	
2019	
2018	

04/25/2025



2017
2016
2015
2014
2013
2012
<b>Date filed</b>

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For more information, please contact the Secretary of State's Office at 304-558-8000.

Monday, March 1, 2021 — 9:37 AM

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4703306096

People Powered. Asset Strong.

February 24, 2025

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

RE: Ownership of Roadways; Tippecanoe

Dear Mr. Martin:

In preparation of filing a permit application for the above referenced well, Arsenal Resources has conducted a thorough title examination in order to determine the ownership of the oil and gas underlying roadways crossed by the proposed well(s). If owned in fee by the West Virginia Department of Transportation, Division of Highways, a lease covering its interest in the roadway or roadways has been properly obtained and provided in the application materials. If a right of way only, the oil and gas underlying such roadway or roadways is owned by the adjoining landowners and is also covered by the leaseholds provided in the application materials.

If you have any questions, concerns or need further information, please do not hesitate to contact me at the address listed below.

Sincerely,

A handwritten signature in cursive script that reads 'Jon Sheldon'.

Jon Sheldon  
Chief Operating Officer

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Office of Oil and Gas

MAR 21 2025

West Virginia Department of  
Environmental Protection

6031 Wallace Road Ext, Suite 300  
Wexford, PA 15090  
P: 724-940-1100  
F: 800-428-0981  
www.arsenalresources.com

04/25/2025

**Horizontal Natural Gas Well Work Permit  
Application Notice By Publication**

**Notice is hereby given:**

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

**Paper:** Exponent Telegram

**Public Notice Date:** 10-11-2024 and 10-18-2024

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

**Applicant:** Arsenal Resources

**Well Number:** Tippecanoe 201, 202

**Address:** 6031 Wallace Road Extension, Suite 101

Wexford, PA 15090

**Business Conducted:** Natural gas production.

**Location –**

State: West Virginia

District: Clay-Outside

County: Harrison

Quadrangle: Shinnston

UTM Coordinate NAD83 Northing: 4361931.14, 4361926.57

UTM coordinate NAD83 Easting: 560857.40, 560857.60

Watershed: West Fork River

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WV Department of  
Environmental Protection

**Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: [http://tagis.dep.wv.gov/convert/llutm\\_conus.php](http://tagis.dep.wv.gov/convert/llutm_conus.php)

**Electronic notification:**

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

**Reviewing Applications:**

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to [DEP.comments@wv.gov](mailto:DEP.comments@wv.gov).

**Submitting Comments:**

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57<sup>th</sup> Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

04/25/2025



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

Date of Notice Certification: 3/19/2025

API No. 47- \_\_\_\_\_  
Operator's Well No. 201 \_\_\_\_\_  
Well Pad Name: Tippecanoe

**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: West Virginia  
County: Harrison  
District: Clay - Outside  
Quadrangle: Shinnston  
Watershed: Tributary to West Fork River

UTM NAD 83 Easting: 560857.40  
Northing: 4361931.14  
Public Road Access: US 19 (Hood Ave)  
Generally used farm name: Atlas Shrugging

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**

- ☐ RECEIVED/  
NOT REQUIRED
- ☐ RECEIVED
- ☐ RECEIVED/  
NOT REQUIRED
- ☐ RECEIVED
- ☐ RECEIVED
- ☐ RECEIVED

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MAR 21 2025  
DEPT. OF ENVIRONMENTAL PROTECTION

**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.

04/25/2025

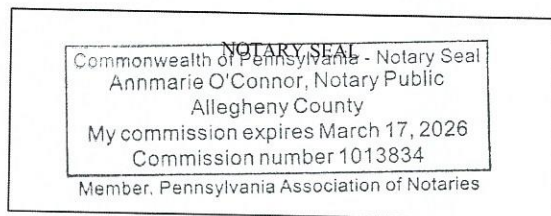


47 03306000

**Certification of Notice is hereby given:**

THEREFORE, I Dave Boyer, 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:	Arsenal Resources	Address:	6031 Wallace Road Ext Suite 200
By:	Dave Boyer <i>[Signature]</i>		
Its:	Director of Geology & Development Planning	Facsimile:	800-428-0981
Telephone:	724-940-1100	Email:	dboyer@arsenalresources.com



Subscribed and sworn before me this 19<sup>th</sup> day of March 2025  
*Annmarie O'Connor* Notary Public  
My Commission Expires 3/17/2026

**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](mailto:depprivacyofficer@wv.gov).

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WV Department of  
Environmental Protection

04/25/2025

**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:** 3/17/2025 **Date Permit Application Filed:** 3/19/2025

**Notice of:**

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

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

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

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

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

☒ SURFACE OWNER(s)

Name: Atlas Shrugging LLC  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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

Name: Atlas Shrugging LLC  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

☒ SURFACE OWNER(s) (Impoundments or Pits)

Name: Atlas Shrugging LLC  
Address: \_\_\_\_\_

☒ COAL OWNER OR LESSEE

Name: See Attached  
Address: \_\_\_\_\_

☒ COAL OPERATOR

Name: See Attached  
Address: \_\_\_\_\_

☒ SURFACE OWNER OF WATER WELL  
AND/OR WATER PURVEYOR(s)

Name: See Attached  
Address: \_\_\_\_\_

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

04/25/2025

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

04/25/2025

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

### **Water Well Testing:**

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

### **Water Testing Laboratories:**

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

### **Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:**

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

### **Written Comment:**

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

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> 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.**

04/25/2025



### **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.

04/25/2025

Notice is hereby given by:

Well Operator: Arsenal Resources

Telephone: 724-940-1100

Email: dbayer@arsenalresources.com

Address: 6031 Wallace Road Ext Suite 200

Facsimile: 800-428-0981

**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](mailto:depprivacyofficer@wv.gov).

Commonwealth of Pennsylvania - Notary Seal  
Annmarie O'Connor, Notary Public  
Allegheny County  
My commission expires March 17, 2026  
Commission number 1013834

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 19<sup>th</sup> day of March 2025

Annmarie O'Connor

Notary Public

My Commission Expires 3/17/2026

04/25/2025

4703306096

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF ENTRY FOR PLAT SURVEY**

**Notice Time Requirement:** Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

**Date of Notice:** 2/24/2025      **Date of Planned Entry:** 3/3/2025

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

☒ SURFACE OWNER(s)

Name: Atlas Shrugging LLC

Address: 205 Center Oak Drive  
Cranberry Twp PA 16066

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

☐ COAL OWNER OR LESSEE

Name: See Attached

Address: \_\_\_\_\_  
RECEIVED  
Office of Oil and Gas

☐ MINERAL OWNER(s)

Name: See Attached

Address: \_\_\_\_\_  
MAR 21 2025  
WV Department of  
Environmental Protection

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia  
County: Harrison  
District: Clay - Outside  
Quadrangle: Shinnston

Approx. Latitude & Longitude: 39.404742, -80.293150  
Public Road Access: US 19 (Hood Ave)  
Watershed: Tributary to West Fork River  
Generally used farm name: Atlas Shrugging

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Arsenal Resources  
Telephone: 724-940-1100  
Email: dboyer@arsenalresources.com

Address: 6031 Wallace Road Ext Suite 200  
Wexford PA 15090  
Facsimile: 800-428-0981

**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](mailto:depprivacyofficer@wv.gov).

04/25/2025



4703306096

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:** 3/17/2025 **Date Permit Application Filed:** 3/19/2025

**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: Atlas Shrugging LLC

Address: \_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_  
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  
County: Harrison  
District: Clay - Outside  
Quadrangle: Shinnston  
Watershed: Tributary to West Fork River

UTM NAD 83 Easting: 560857.40  
Northing: 4361931.14  
Public Road Access: US 19 (Hood Ave)  
Generally used farm name: Atlas Shrugging

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Arsenal Resources  
Telephone: 724-940-1100  
Email: dboyer@arsenalresources.com

Address: 6031 Wallace Road Ext Suite 200  
Facsimile: 800-428-0981

**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](mailto:depprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas

MAR 21 2025

04/25/2025





**WEST VIRGINIA  
DEPARTMENT OF TRANSPORTATION**

1900 Kanawha Boulevard East • Building Five • Room 109  
Charleston, West Virginia 25305-0440 • (304) 558-0444

Michael J. DeMers  
Deputy Secretary of Transportation

Stephen T. Rumbaugh, P.E.  
Secretary of Transportation  
Commissioner of Highways

February 19, 2025

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

**Subject: DOH Permit for the Tippecanoe Well Pad, Harrison County  
Tippecanoe 201 Well Site Tippecanoe 202 Well Site**

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2024-4016 which has been issued to Arsenal Resources, LLC for access to the State Road for a well site located off Harrison County Route US 19 MP 26.95.

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 March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

A handwritten signature in blue ink that reads "Lacy D. Pratt".

Lacy D. Pratt  
Central Office O&G Coordinator

Cc: Dave Boyer  
Arsenal Resources, LLC  
OM, D-4  
File

04/25/2025

FRACTURING ADDITIVES			
	PURPOSE	TRADE NAME	CAS #
Additive #1:	Friction Reducer	WFRA-405	Proprietary
Additive #2:	Scale Inhibitor	SI-1000	7440-21-3
Additive #3:	Biocide	BIOCLEAR 2000	25314-61-8
Additive #4:	Gelling Agent	LGC-15	9000-30-0
Additive #5:	Corrosion Inhibitor	AI-300	111-76-2
Additive #6:	Gel Breaker	AP-One	7727-54-0
Additive #7:	Acid	HCl - 7.5%	7647-01-0

OPERATOR: Arsenal Resources WELL NO: 201  
PAD NAME: Tippecanoe  
REVIEWED BY: Dave Boyer 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

MAR 21 2025

WV Department of  
Environmental Protection  
04/25/2025



## PROJECT INFORMATION

SURFACE OWNERS:  
ATLAS SHRUGGING LLC  
TM 188 PAR 15  
CLAY DISTRICT  
HARRISON COUNTY, WV  
TOTAL PROPERTY AREA: 177.03 ACRES  
DISTURBANCE AREA: 43.61 ACRES

WVDOH

CLAY DISTRICT  
HARRISON COUNTY, WV  
TOTAL PROPERTY AREA: 1.173 ACRES  
DISTURBANCE AREA: 0.27 ACRES

## SITE LOCATION:

THE TIPPECANOE WELL PAD IS LOCATED ON THE NORTH SIDE OF THE U.S. ROUTE 19 AND THE WEST FORK RIVER, NORTH OF SHINNSTON AND HAVING AN ENTRANCE OFF U.S. ROUTE 19 THAT IS APPROXIMATELY 0.17 MILES WEST OF THE INTERSECTION OF HARRISON COUNTY ROUTE 19/3.

## LOCATION COORDINATES

WELL PAD ACCESS ROAD  
LATITUDE: 39.401640 LONGITUDE: -80.288749 (NAD 83)

AST PAD ACCESS ROAD  
LATITUDE: 39.404259 LONGITUDE: -80.266889 (NAD 83)

CENTER OF WELL PAD  
LATITUDE: 39.404864 LONGITUDE: -80.292696 (NAD 83)

CENTER OF AST  
LATITUDE: 39.403680 LONGITUDE: -80.287678 (NAD 83)

## SITE DISTURBANCE COMPUTATIONS

WELL PAD AREA = 16.376 ACRES  
STOCKPILE #1 AREA = 3.771 ACRES  
AST PAD AND AST ACCESS = 9.231 ACRES  
WELL PAD ACCESS ROAD AREA = 12.461 ACRES  
STOCKPILE #2 AREA = 2.141 ACRES  
TOTAL SITE DISTURBANCE = 43.97 ± ACRES

TREE CLEARING AREA = 24.30 ± ACRES

## GENERAL DESCRIPTION

THE TIPPECANOE WELL PAD IS BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

## ENTRANCE PERMIT

ARSENAL RESOURCES IS IN THE PROCESS OF OBTAINING WVDOH ENCROACHMENT PERMITS (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS. PERMIT APPLICATIONS SUBMITTED 11/04/2024, HAVING PERMIT APPLICATION NUMBERS 04-2024-0416 AND 04-2024-4018.

## MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET # 242956406. IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

## FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS LOCATED WITHIN DELINEATED FLOOD HAZARD ZONE AE PER FLOOD INSURANCE RATE MAP NUMBER 54033C00680 DATED OCTOBER 2, 2012. NO NEW GRADING OR PROPOSED STRUCTURES ARE PROPOSED WITHIN THE FLOOD ZONE.

## GEOTECHNICAL NOTE

A SUBSURFACE INVESTIGATION WAS PERFORMED BETWEEN 10/23/2024 AND 11/01/2024 BY TRIAD ENGINEERING. REFER TO TRIAD'S REPORT FOR ADDITIONAL DETAILS AND RECOMMENDATIONS.

## ENVIRONMENTAL NOTE

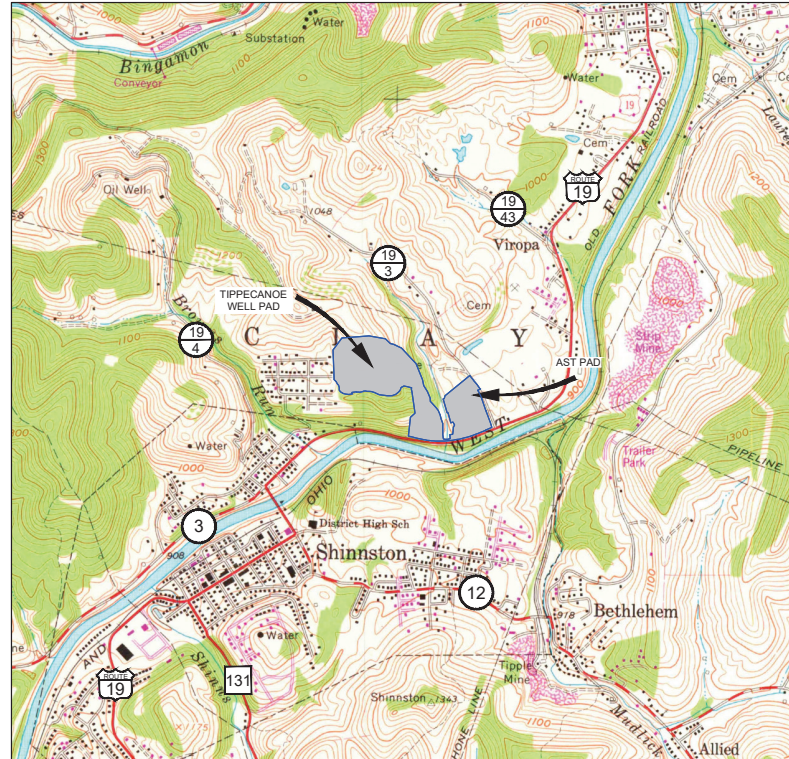
A WETLAND/STREAM DELINEATION WAS PERFORMED ON 08-05-2024 BY ALLSTAR ECOLOGY TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE). THE USACE PROVIDED AN APPROVED JURISDICTIONAL DETERMINATION (AJD) LRP-22024-003621 ON OCTOBER 31, 2024 THAT STATED THAT JURISDICTION OF STREAMS 6, 7, 8, 9, 10, 12, 13, AND 14 WILL NOT BE ASSERTED. USACE ALSO DETERMINED THAT JURISDICTION ON WETLANDS 4 AND 5 WILL NOT BE ASSERTED.

## RESTRICTIONS NOTES:

- THERE ARE TWO (2) DELINEATED WETLANDS WITHIN 100' OF THE WELL PAD LOD THAT ARE NOT PROPOSED TO BE IMPACTED. HOWEVER, USACE DETERMINED THESE TO BE NON JURISDICTIONAL. NO WAIVER SHOULD BE REQUIRED.
- THERE ARE FOUR (4) DELINEATED EPHEMERAL STREAMS THAT ARE PROPOSED TO BE IMPACTED WITHIN THE TOTAL SITE LOD. HOWEVER, USACE DETERMINED THESE TO BE NON JURISDICTIONAL.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELLS(S) BEING DRILLED.
- THERE ARE NO DWELLINGS 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.

APPROVED  
WVDEP OOG  
4/24/2025

GRID NORTH ARS AND  
SURVEYED ELEVATIONS (NAVD  
83) SHOWN HEREON WERE  
ESTABLISHED BY THE  
GRADE EQUIPMENT



SHINNSTON QUAD



Well Number	State Plane (Nad 83) N	State Plane (Nad 83) E	UTM (Nad 83) Meters (N)	UTM (Nad 83) Meters (E)	Latitude (Nad 83)	Longitude (Nad 83)	Proposed Elevation
201	330521.31	1744385.07	4361031.14	560857.40	39.404742	80.293150	1069.38'
202	330506.31	1744385.06	4361929.57	560857.60	39.404701	80.293149	1069.38'

Kenny Willett 3/3/25

## LIST OF DRAWINGS

- COVER SHEET
- 2 - 4 NOTES
- UTILITY SHEET
- OVERALL SITE PLAN
- WELL PAD, WELL PAD ACCESS, STOCKPILE #1
- WELL PAD & STOCKPILE #1
- EXISTING ACCESS ROAD
- AST PAD, ACCESS, AND STOCKPILE #2
- 11-16 WELL PAD, STOCKPILES, AST PAD PROFILES
- 17-21 ACCESS ROAD PROFILES
- 22-25 ACCESS ROAD SECTIONS
- 26-28 CULVERT DETAILS
- 29-30 RECLAMATION PLAN
- 31-36 CONSTRUCTION DETAILS

LEGEND	
EXISTING	PROPOSED
INDEX CONTOUR	INDEX CONTOUR
INTERMEDIATE CONTOUR	INTERMEDIATE CONTOUR
BOUNDARY LINE	BOUNDARY LINE
ROAD EDGE OF GRAVEL/DIRT	ROAD EDGE OF GRAVEL/DIRT
ROAD EDGE OF PAVEMENT	ROAD EDGE OF PAVEMENT
ROAD CENTERLINE	ROAD CENTERLINE
CULVERT	CULVERT
FENCELINE	FENCELINE
GATE	GATE
OVERHEAD ELECTRIC	OVERHEAD ELECTRIC
POWER POLE	POWER POLE
TELEPHONE LINE	TELEPHONE LINE
GASLINE	GASLINE
WATERLINE	WATERLINE
WATER METER	WATER METER
GAS WELL	GAS WELL
TREELINE	TREELINE
DELINEATED STREAM	DELINEATED STREAM
DELINEATED WETLAND	DELINEATED WETLAND
BUILDING	BUILDING
MISC. FEATURE	MISC. FEATURE
100' WETLAND/STREAM BUFFER	100' WETLAND/STREAM BUFFER
ALLSTAR AREA OF INTEREST	ALLSTAR AREA OF INTEREST
	WELL HEAD
	4" PVC DRAIN PIPE
	WELL PAD SUMP
	CONTAINMENT BERM
	4" PVC TOE KEY DRAIN & OUTLET
	PROTECTION
	RIP-RAP DITCH
	ROAD EDGE OF GRAVEL
	ROAD CENTERLINE
	PAD UNDERDRAIN
	BLIND DITCH
	DITCH RELIEF CULVERT (DRC)
	RIP-RAP OUTLET PROTECTION
	SMARTFENCE HD
	PROFILE LINE
	X-SECTION GRID INDEX
	X-SECTION PROPOSED GRADE
	X-SECTION EXISTING GRADE
	SUBGRADE ELEVATION
	FINISH GRADE ELEVATION

REVISION DATE

ARSENAL RESOURCES

SLS LAND & ENERGY DEVELOPMENT

PROFESSIONAL ENGINEER

THIS DOCUMENT WAS PREPARED BY SLS LAND & ENERGY DEVELOPMENT FOR ARSENAL RESOURCES

TIPPECANOE WELL PAD FINAL SITE PLAN CLAY DISTRICT HARRISON COUNTY, WV

DATE: 11-25-2024

SCALE: AS SHOWN

DESIGNED BY: C.P.M.

FILE NO. 9489

SHEET 1 OF 35

REV.

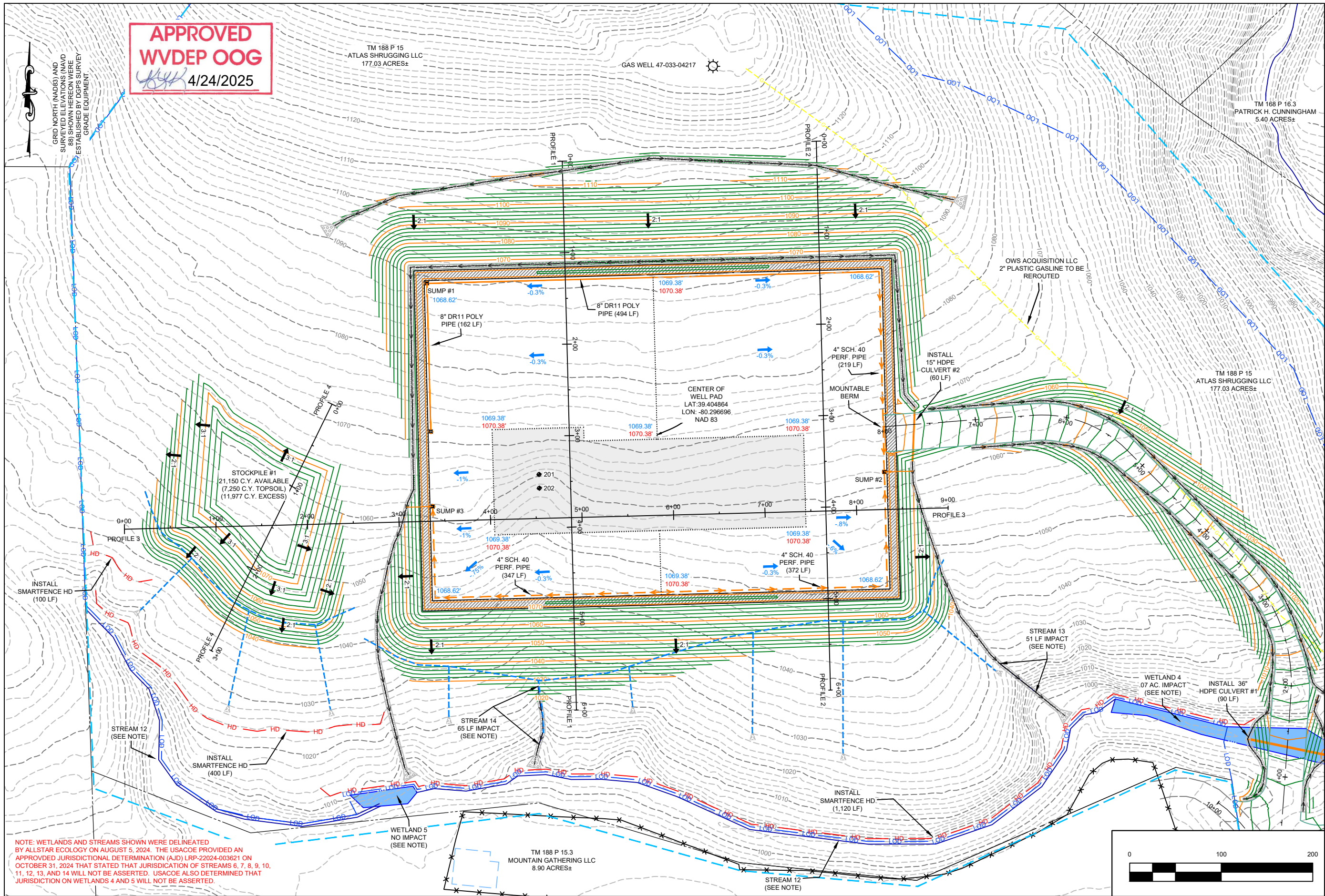
## OPERATOR

ARSENAL RESOURCES  
6031 WALLACE ROAD EXT.  
SUITE 101  
WEXFORD, PA 15090  
PHONE: (724) 940-1137

## ENGINEER/SURVEYOR

SLS LAND & ENERGY DEVELOPMENT  
12 VANHORN DRIVE  
P.O. BOX 150  
GLENVILLE, WV 26351  
PHONE: (304) 462-5634





NOTE: WETLANDS AND STREAMS SHOWN WERE DELINEATED BY ALLSTAR ECOLOGY ON AUGUST 5, 2024. THE USACE PROVIDED AN APPROVED JURISDICTIONAL DETERMINATION (AJD) LRP-22024-003621 ON OCTOBER 31, 2024 THAT STATED THAT JURISDICTION OF STREAMS 6, 7, 8, 9, 10, 11, 12, 13, AND 14 WILL NOT BE ASSERTED. USACE ALSO DETERMINED THAT JURISDICTION ON WETLANDS 4 AND 5 WILL NOT BE ASSERTED.

04/25/2025

ARSENAL  
SURVEYING & CONSULTING

SLS

FROM THE GROUND UP

REGISTERED PROFESSIONAL ENGINEER

9716

STATE OF INDIANA

11/25/24

THIS DOCUMENT WAS PREPARED BY: SLS LAND & ENERGY DEVELOPMENT FOR: ARSENAL RESOURCES

WELL PAD, ACCESS ROAD, STOCKPILE #1

TIPPECANOE WELL PAD

PRELIM SITE PLAN

CLAY DISTRICT

HARRISON COUNTY, WV

DATE: 11-25-2024

SCALE: 1" = 100'

DESIGNED BY: C.P.M.

FILE NO. 9489

SHEET 8 OF 35

REV: