



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

Thursday, June 26, 2025
WELL WORK PERMIT
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC
6031 WALLACE RD EXT., SUITE 101

WEXFORD, PA 15090

Re: Permit approval for SLH 214
47-033-06112-00-00

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.

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

James A. Martin
Chief

Operator's Well Number: SLH 214
Farm Name: JERRY R NEWBROUGH
U.S. WELL NUMBER: 47-033-06112-00-00
Horizontal 6A New Drill
Date Issued: 06/26/2025

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.

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. 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.

06/27/2025

WW-6B
(04/15)

4703306112
API NO. 47-033 -
OPERATOR WELL NO. SLH 214
Well Pad Name: SLH

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

- 1) Well Operator: Arsenal Resources 494519412 Harrison Simpson Brownton
Operator ID County District Quadrangle
- 2) Operator's Well Number: SLH 214 Well Pad Name: SLH
- 3) Farm Name/Surface Owner: Newbrough Public Road Access: C.R. 23/9
- 4) Elevation, current ground: 1042' Elevation, proposed post-construction: 1045'
- 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, 7,217' (TVD Top) - 7,317' (TVD Bottom), 100 ft, 0.5 psi/ft
- 8) Proposed Total Vertical Depth: 7,305'
- 9) Formation at Total Vertical Depth: Marcellus Shale
- 10) Proposed Total Measured Depth: 7,897'
- 11) Proposed Horizontal Leg Length: 0'
- 12) Approximate Fresh Water Strata Depths: 25', 40', 200', 488'
- 13) Method to Determine Fresh Water Depths: Offsetting well reported water depths (033-02704, 033-03178, 033-05119)
- 14) Approximate Saltwater Depths: 700', 1550'
- 15) Approximate Coal Seam Depths: Bakerstown-272', Brush Creek-352', Upper Freeport-392', Clarion-672'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None expected
- 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: _____

941 Propst
5-15-2025

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WW-6B
(04/15)

4703306112

API NO. 47- 033 -
 OPERATOR WELL NO. SLH 214
 Well Pad Name: SLH

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	94	80	80	CTS
Fresh Water	13.375	New	J-55	54.5	550	550	CTS
Coal							
Intermediate	9.625	New	J-55	40	1,500	1,500	CTS
Production	5.5	New	P-110	23	7,897	7,897	TOC @ 1,350
Tubing							
Liners							

9-44 Pgs 5-15-2025

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% CaCl ₂	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A/L, 3% CaCl ₂	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A/L, 3% CaCl ₂	1.29
Production	5.5	8.5-8.75	0.415	14,520	9,500	Class A/L, Poz	1.29/1.34
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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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): 9.59

22) Area to be disturbed for well pad only, less access road (acres): 4.82

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 1,450'; there will be no centralizers from 1,450' 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% CaCl₂ (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 1,350' (+/- 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.

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 strands 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.

*Note: Attach additional sheets as needed.

QAM Propst
5-15-2025

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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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06/27/2025



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4)
SECTION 11.5 AND LEGISLATIVE RULE)
35CSR8 SECTION 9.2.h.8.,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-14

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

Protecting a healthy environment

06/27/2025

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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Arsenal Resources
SLH #214
Casing Design

Other Names:	N/A
Surface Location:	LAT 39.217831N x Long 80.222140W
Bottom Hole Location:	LAT 39.220341N x Long 80.217833W
Directional Plan Vs.	1525'
Total Depth (MD)	7,897

County:	Harrison		
State:	WV		
AFE #:	xxx	API #:	47-033-xxxxx
RKB:	27		
Ground Level:	1045'		

Logs	Significant Formations (TVD)	Depth (ft) MD	Depth (ft) TVD	Hole Size	Casing and Cement	Mud	Directional & Surveys Drlg /Csg Point
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None	Section 1						
		80	80	24" 94# H-40 BTC	Vertical		
None	Section 2			17 1/2" (PDC)	Floc Water		
				Cement	Class A/L, 3% CaCl2		
				Density/Yield/Volume (sx)	15.6 1.2 703		
				TOC	Surface		
Possible CBL after cement job		550	550	13 3/8" 54.5# J-55 LTC	Vertical		
None	Section 3			12 1/4" (PDC)	Floc Water		
				Cement (Lead/Tail)	Class A/L, 3% CaCl2	Class A/L, 3% CaCl2	
				Density/Yield/Volume (sx)	14.5 1.19 712		
				TOC	Surface		
		1,500	1,500	9 5/8" 40# J-55 LTC	Vertical		

Wireline: None
Mudloggers: KOP - TD
KOP @ 6,868

Geo Prognosis

Formation	Depth (Tss)	Top (TVD)	Base (TVD)
Bakerstown Coal	0	0	0
Brush Creek Coal	0	0	0
Upper Freeport Coal	0	0	0
Lower Freeport Coal	0	0	0
Upper Kittanning Coal	0	0	0
Middle Kittanning Coal	0	0	0
Lower Kittanning Coal	0	0	0
Big Lime	0	0	0
Balltown Sandstone	0	0	0
Bradford Sandstone	0	0	0
Benson Sandstone	0	0	0
1st Elk Siltstone	0	0	0
Burkett Shale	0	0	0
Tully Limestone	0	0	0
Mahantango Shale	0	0	0
Marcellus Shale	0	0	0
Purcell Limestone	0	0	0
Lower Marcellus Shale	0	0	0
TARGET	0	0	0
Onondaga Limestone	0	0	0

Mud Data	From	To
Floc Water	80	1,500
Floc Water	1,500	7,896
11.5- 12.0 ppg SOBM	7,896	7,896

Bit Data	From	To
17-1/2" & 12 1/4" PDC	80	1,500
8- 3/4" (PDC)	1,500	7,896
8- 1/2" (PDC)	7,896	7,896

Directional Data	
KOP	6,868
Curve	9°/100 ft
Angle	90.0
Azi	341
EOB	MD 7,896
	TVD 7,305

Cement	Production
Lead	Lead: 50-50 Poz/A
	13.8 1.33 TBD
Tail	Tail: Class A
	15 1.3 TBD
TOC	1,350

MD 7,896
TVD 7,305
Azimuth 341

5 1/2" 23# P-110HP Weld Tube GBCD

Revision

1

Note: Not drawn to scale

Date Last Revised: 5/2025
Ross Schweitzer

Cement Outside Casing
Seal Assembly in Annulus

06/27/2025

WW-9
(4/16)

4703306112

API Number 47 - 033 -
Operator's Well No. SLH 214

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) West Fork Quadrangle Brownston

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.

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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 Emily Glick

Company Official (Typed Name) Dave Boyer Emily Glick

Company Official Title Director of Geology & Development Planning Geologist + Permitting Specialist

Subscribed and sworn before me this 15th day of May, 2025

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 1013834
Member, Pennsylvania Association of Notaries

JP
5-15-2025
06/27/2025

4703306112

Form WW-9

Operator's Well No. SLH 214

Arsenal ResourcesProposed Revegetation Treatment: Acres Disturbed 9.59 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/acre**Seed Mixtures**

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	129	Orchard Grass	129
Rye	93	Rye	93
Clover	24	Clover	24
Timothy	45	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: Jay Pugh 5-15-2025Comments: Cover all area per procedureRECEIVED
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MAY 19 2025

WV Department of
Environmental ProtectionTitle: Inspector Date: 5-15-2025Field Reviewed? (☒) Yes (☐) No

06/27/2025



ARSENAL
R E S O U R C E S

SITE SAFETY PLAN

SLH Well Pad

911 Address:

*9-44 Proposal
5-15-2025*

**4795 Brushy Fork Rd
Bridgeport, WV 26330**

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Office of Oil and Gas

MAY 19 2025

WV Department of
Environmental Protection

POSSIBLE WATER PURVEYORS WITHIN 1,500 FEET

Well Pad: S.L.H. Well Pad and AST Pad

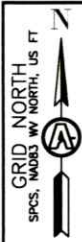
District: SIMPSON-OUTSIDE

County: HARRISON

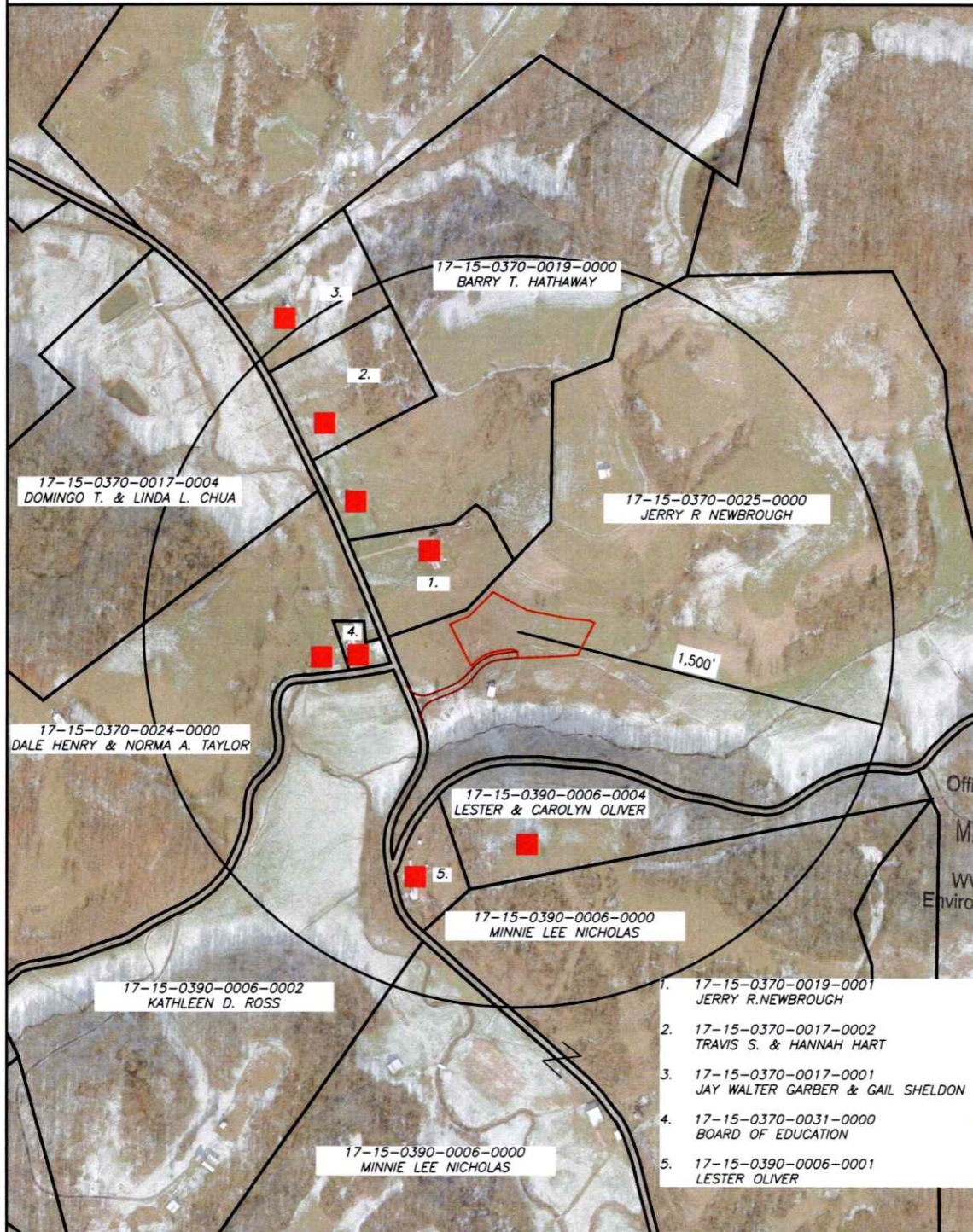
State: WV

<p>17-15-0370-0017-0001</p> <p>NAME: GARBER JAY WALTER & GAIL SHELDON</p> <p>PHYSICAL ADDRESS: 4541 BRUSHY FORK RD BRIDGEPORT WV 26330</p> <p>TAX ADDRESS: 4541 BRUSHY FORK RD BRIDGEPORT WV 26330</p>	<p>17-15-0370-0017-0002</p> <p>NAME: HART TRAVIS S & HANNAH</p> <p>PHYSICAL ADDRESS: 4621 BRUSHY FORK RD, BRIDGEPORT, WV 26330</p> <p>TAX ADDRESS: 4621 BRUSHY FORK RD, BRIDGEPORT, WV 26330</p>	<p>17-15-0370-0019-0000</p> <p>NAME: HATHAWAY BARRY T</p> <p>PHYSICAL ADDRESS: ROUTE 23 BRIDGEPORT 26330</p> <p>TAX ADDRESS: 4683 BRUSHY FORK RD BRIDGEPORT WV 26330</p>
<p>17-15-0370-0019-0001</p> <p>NAME: NEWBROUGH JERRY R</p> <p>PHYSICAL ADDRESS: 4749 BRUSHY FORK RD BRIDGEPORT WV 26330</p> <p>TAX ADDRESS: 4749 BRUSHY FORK RD BRIDGEPORT WV 26330</p>	<p>17-15-0370-0031-0000</p> <p>NAME: BOARD OF EDUCATION</p> <p>PHYSICAL ADDRESS: NOT PROVIDED</p> <p>TAX ADDRESS: PO BOX 1370, CLARKSBURG, WV 26302</p>	<p>17-15-0370-0024-0000</p> <p>NAME: TAYLOR DALE HENRY & NORMA A</p> <p>PHYSICAL ADDRESS: 32 BLACK OAK HOLLOW RD, BRIDGEPORT, WV 26330</p> <p>TAX ADDRESS: NOT PROVIDED</p>
<p>17-15-0390-0006-0001</p> <p>NAME: OLIVER LESTER</p> <p>PHYSICAL ADDRESS: 4995 BRUSHY FORK RD BRIDGEPORT WV 26330</p> <p>TAX ADDRESS: 4995 BRUSHY FORK RD BRIDGEPORT WV 26330</p>	<p>17-15-0390-0006-0004</p> <p>NAME: OLIVER LESTER & CAROLYN</p> <p>PHYSICAL ADDRESS: BRIDGEPORT 26330</p> <p>TAX ADDRESS: NOT PROVIDED</p>	<p>17-15-0370-0025-0000</p> <p>NAME: NEWBROUGH JERRY R</p> <p>PHYSICAL ADDRESS: RT 23-5 BRIDGEPORT 26330</p> <p>TAX ADDRESS: 4749 BRUSHY FORK RD, BRIDGEPORT, WV 26330</p>
<p>17-15-0370-0017-0004</p> <p>NAME: DOMINGO T & LINDA L CHUA</p> <p>PHYSICAL ADDRESS: NOT PROVIDED</p> <p>TAX ADDRESS: 100 SOUTHVIEW DR, ELKINS, WV 26241</p>	<p>17-15-0390-0006-0002</p> <p>NAME: ROSS KATHLEEN D</p> <p>PHYSICAL ADDRESS: 481 BLACK OAK HOLLOW RD, BRIDGEPORT, WV 26330</p> <p>TAX ADDRESS: 481 BLACK OAK HOLLOW RD, BRIDGEPORT, WV 26330</p>	<p>17-15-0390-0006-0000</p> <p>NAME: NICHOLAS MINNIE LEE</p> <p>PHYSICAL ADDRESS: 5239 BRUSHY FORK RD BRIDGEPORT 26330 6838</p> <p>TAX ADDRESS: 5239 BRUSHY FORK RD BRIDGEPORT 26330 6838</p>

06/27/2025



ARSENAL RESOURCES S.L.H. WELL PAD AND AST PAD POSSIBLE WATER PURVEYORS WITHIN 1500'



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Office of Oil and Gas

MAY 19 2025

WV Department of
Environmental Protection

■ = APPARENT RESIDENTS

500' 0 500'
GRAPHIC SCALE IN FEET



SURVEYOR/ENGINEER
1700 ANMOORE RD.
BRIDGEPORT, WV 26330
1-304-833-3463

2024 AERIAL	
COUNTY	DISTRICT
HARRISON	SIMPSON-OUTSIDE
DRAWN BY	JOB No.
TMF	10-4254

OPERATOR:

ARSENAL RESOURCES
6031 WALLACE RD. EXT. SUITE 200
WEXFORD, PA 15090

DATE	SCALE
05-06-2025	1"=500'



ARSENAL
RESOURCES



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330



SURFACE HOLE LOCATION (SHL):

GEOGRAPHIC (NAD83):
LATITUDE: 39.217831°
LONGITUDE: -80.222140°
SPCS (NAD83, WV NORTH, FEET):
NORTHING: 262,276.185
EASTING: 1,763,902.802
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,341,238.187
EASTING: 567,149.663

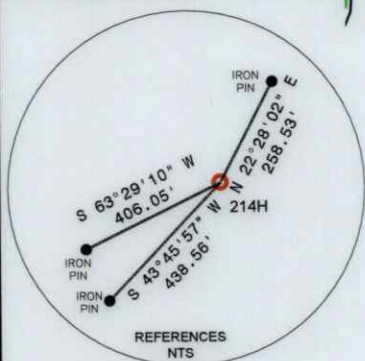
BOTTOM HOLE LOCATION (BHL):

GEOGRAPHIC (NAD83):
LATITUDE: 39.220341°
LONGITUDE: -80.217833°
SPCS (NAD83, WV NORTH, FEET):
NORTHING: 263,180.759
EASTING: 1,765,130.458
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,341,519.993
EASTING: 567,519.086

PROPOSED 214
TOP HOLE

PROPOSED 214
BOTTOM HOLE

TAG	PARCEL	SURFACE OWNER / ROAD / RIVER	ACREAGE
A	17-15-370-25	JERRY R. NEWBROUGH	90.0



WELL RESTRICTIONS

- ONE OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESER VOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

- TIES TO WELLS AND CORNERS ARE BASED ON UTM, NAD83 DATUM, ZONE 17, US FT.
- WELL LAT./LONG. ESTABLISHED BY DIRECT GPS NAD '83.
- BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
- SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF BARBOUR COUNTY IN OCTOBER OF 2021.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

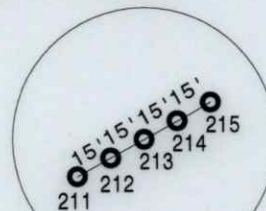
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 983

Michael R. Hyman 05-08-2025



LINE	BEARING	DISTANCE
L1	S 78°40'25" W	400.21'
L2	N 73°17'28" W	106.11'
L3	N 22°28'02" E	258.53'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

S.L.H. WELL PAD AND AST PAD
OPERATOR'S WELL #: #214H
API WELL #: 47 033 06112
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: WEST FORK
DISTRICT: Simpson-Outside District COUNTY: HARRISON
SURFACE OWNER: JERRY R. NEWBROUGH ACREAGE: ±90.0
OIL & GAS ROYALTY OWNER: Chad W. Johnson, Betty Lee Stout, Charles Lloyd Stout, & Jennifer K Sprouse, Trustee of the Ruth Ann Knekeley Irrevocable Trust ACREAGE: ±90.0
DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☒
CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY) 06/27/2025
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,305' TVD 7,897' TMD

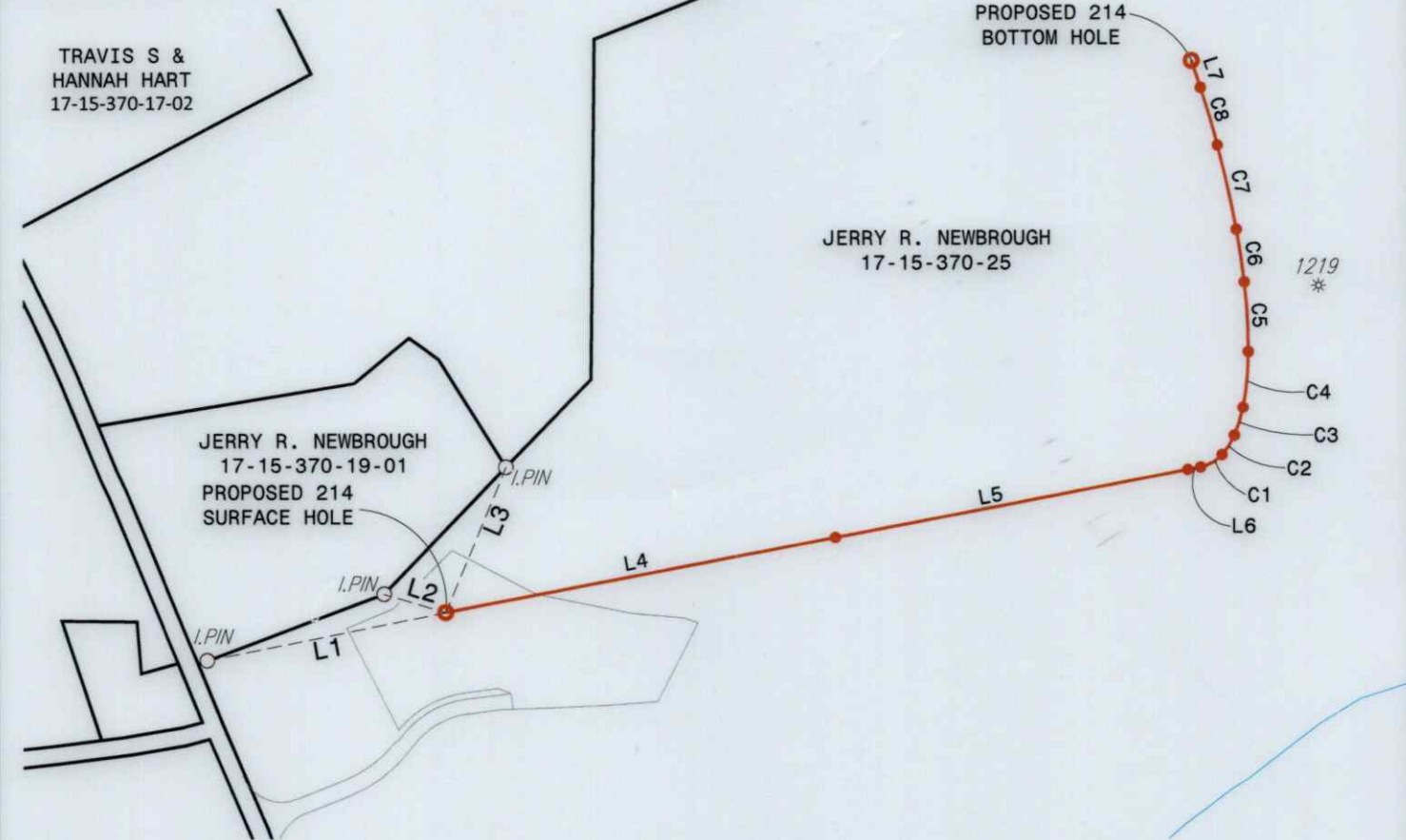
WELL OPERATOR: ARSENAL RESOURCES
ADDRESS: 6031 WALLACE RD. EXT. SUITE 200
CITY: WEXFORD, STATE: PA ZIP CODE: 15090
DESIGNATED AGENT: ERIC MORRIS
ADDRESS: 633 WEST MAIN STREET
CITY: BRIDGEPORT STATE: WV ZIP CODE: 26330

LEGEND:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE
* EXISTING / PRODUCING WELLHEAD
LPL* LANDING POINT LOCATION
--- SURVEYED BOUNDARY
--- DRILLING UNIT
--- LEASE BOUNDARY
--- 500' OFFSET LINE
--- PROPOSED PATH
REVISIONS:
DATE: 05-08-2025
FILE NO: 10-4254
DRAWN BY: TMF
SCALE: 1" = 2000'
DRAWING NO: xxxxx
WELL LOCATION PLAT 1



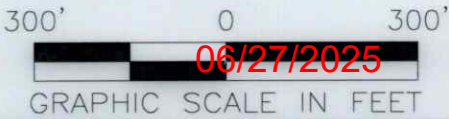
SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 39.217831°	
LONGITUDE: -80.222140°	
SPCS (NAD83, WV NORTH, FEET):	
NORTHING: 262,276.185	
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UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,341,238.187	
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UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,341,519.993	
EASTING: 567,519.086	



LINE	BEARING	DISTANCE
L1	S 78°40'25" W	400.21'
L2	N 73°17'28" W	106.11'
L3	N 22°28'02" E	258.53'
L4	N 79°12'13" E	652.44'
L5	N 79°12'30" E	589.96'
L6	N 79°12'23" E	21.27'
L7	N 18°20'37" W	46.66'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	62.79'	41.82'	41.05'	N 60°07'40" E	38°09'24"
C2	126.96'	38.33'	38.18'	N 32°24'04" E	17°17'49"
C3	210.36'	48.07'	47.96'	N 17°12'23" E	13°05'32"
C4	510.08'	92.19'	92.06'	N 05°28'58" E	10°21'18"
C5	917.75'	114.78'	114.71'	N 03°16'40" W	7°09'58"
C6	1,575.35'	86.92'	86.91'	N 08°26'30" W	3°09'41"
C7	1,557.59'	141.59'	141.54'	N 12°37'36" W	5°12'30"
C8	2,646.05'	98.86'	98.85'	N 16°18'04" W	2°08'26"



REVISIONS:	47-033-06112

COMPANY:			
OPERATOR'S		S.L.H. WELL PAD AND AST PAD	
WELL #:		#214H	
DISTRICT:		COUNTY:	STATE:
Simpson-Outside District		HARRISON	WV
DATE:		05-08-2025	
DRAWN BY:		TMF	
SCALE:		N/A	
DRAWING NO:		xxxxx	
WELL LOCATION PLAT		2	

WW-6A1
(5/13)

Operator's Well No. SLH 214

**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				

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

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MAY 19 2025

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:

Emily Glick

By:

Emily Glick

Its:

Geologist & Permitting Specialist

Attachment to WW-6A1, SLH 214

TAG	Parcel #	Lease #	Owner Name	Lessee Name	BK	PG	LOR	Acres
A	47-033-15-370-25	00003705	Harley M Reeder and Orba H Reeder	Petroleum Development Corp	1018	77	12.5%+	90
			Petroleum Development Corp	PDC Mountaineer LLC	1440	364		
			PDC Mountaineer LLC	River Ridge Energy	59	1260		

4703306112

Agreement to Drill, Complete and Operate Oil & Gas Wells

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Arsenal Resources LLC, a West Virginia limited liability company ("Arsenal"), River Ridge Energy, LLC, a Delaware limited liability company ("River Ridge"), and River Ridge Energy, Holdings, LLC, a Delaware limited liability company ("River Ridge Holdings"), is effective as of March 1, 2017. (the "Effective Date") and sets forth the terms pursuant to which Arsenal will drill, complete and operate the Wells (as defined below) on behalf of River Ridge and River Ridge Holdings. Arsenal, River Ridge, and River Ridge Holdings are each a "Party" and are collectively the "Parties". In consideration of the foregoing and the respective agreements hereinafter set forth and the mutual benefits to be derived therefrom, the Parties, intending to be legally bound, hereby agree as follows:

1. **Term:** This Agreement is effective from the Effective Date until terminated by Arsenal on the one hand or River Ridge and River Ridge Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").
2. **Authorization to Operate:** River Ridge and River Holdings authorize Arsenal to undertake and perform, on River Ridge and River Ridge Holdings behalf, all operations, including without limitation permit applications, well pad preparation, drilling and completing wells, and marketing gas, oil and other hydrocarbons therefrom with respect to all oil and gas wells to be drilled on oil and gas leasehold acreage held by River Ridge or River Ridge Holdings. River Ridge, River Ridge Holdings and Arsenal are affiliates with a common parent. Arsenal was formed to operate oil and gas leasehold acreage held by River Ridge, River Ridge Holdings and certain other affiliates. Arsenal agrees that it shall, in a good and workmanlike manner and in accordance with industry standards as they prevail in the area, drill, complete and operate oil and gas wells on leasehold acreage owned by River Ridge or River Ridge Holdings from time to time as directed by River Ridge or River Ridge Holdings (collectively, the "Wells").
3. **No Third Party Beneficiary:** This Agreement is for the benefit of the Parties and is not for the benefit of any third party.
4. **Counterparts:** This Agreement may be simultaneously executed in several counterparts and via facsimile or similar electronic transmittal, each of which shall be deemed to be an original and taken together shall constitute one and the same instrument.

[Signature Page Follows]

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Office of Oil and Gas

MAY 19 2025

WV Department of
Environmental Protection

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



People Powered. Asset Strong.

May 15, 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; SLH Unit (Well 214)

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

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

06/27/2025

WW-PN
(11-18-2015)

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: 4-23-2025 and 4-30-2025

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:** SLH 211, 212, 213, 214, 215

Address: 6031 Wallace Road Extension, Suite 200
Wexford, PA 15090

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u>	County:	<u>Harrison</u>
District:	<u>Simpson</u>	Quadrangle:	<u>Brownston</u>
UTM Coordinate NAD83 Northing:	<u>4341230.65, 4341233.13, 4341235.71, 4341238.19, 4341240.66</u>		
UTM coordinate NAD83 Easting:	<u>567138.25, 567142.02, 567145.8, 567149.66, 567153.44</u>		
Watershed:	<u>Elk Creek</u>		

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: 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.

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Office of Oil and Gas
MAY 19 2025

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th 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.

WV Department of
Environmental Protection

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 57th 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

06/27/2025

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

Date of Notice Certification: 05/13/2025

API No. 47- 033 -
Operator's Well No. 214
Well Pad Name: SLH

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: Simpson
Quadrangle: Brownston
Watershed: West Fork

UTM NAD 83 Easting: 567183.729
Northing: 4341221.870
Public Road Access: C.R. 23/9
Generally used farm name: Newbrough

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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
--	--

RECEIVED
Office of Oil and Gas
MAY 19 2025
WV Department of
Environmental Protection

Required Attachments:

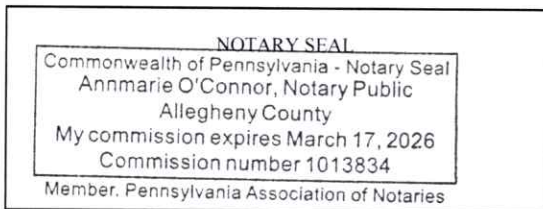
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

06/27/2025

Certification of Notice is hereby given:

THEREFORE, I Emily Glick, 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 <u>Emily Glick</u>	Address:	6031 Wallace Road Ext, Suite 200
By:	Emily Glick		Wexford, PA 15090
Its:	Geologist & Permitting Specialist	Facsimile:	800-428-0981
Telephone:	724-940-1100	Email:	eglick@arsenalresources.com



Subscribed and sworn before me this 15th day of May 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.

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Office of Oil and Gas
MAY 19 2025
WV Department of
Environmental Protection

06/27/2025

WW-6A
(9-13)

4703306112
API NO. 47-
OPERATOR WELL NO. 214
Well Pad Name: SLH

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: 05/13/2025 **Date Permit Application Filed:** 05/15/2025

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: Jerry R. Newbrough
Address: 4749 Brushy Fork Road
Bridgeport, WV 26330
Name:
Address:

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

Name: Jerry R. Newbrough
Address: 4749 Brushy Fork Road
Bridgeport, WV 26330
Name:
Address:

☐ SURFACE OWNER(s) (Impoundments or Pits)

Name:
Address:

☒ COAL OWNER OR LESSEE

Name: Jerry R. Newbrough
Address: 4749 Brushy Fork Road
Bridgeport, WV 26330

☐ COAL OPERATOR

Name:
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

RECEIVED
Office of Oil and Gas

MAY 19 2025

WV Department of
Environmental Protection

06/27/2025

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

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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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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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.**

06/27/2025

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.

WW-6A
(8-13)

4703306112
API NO. 47-
OPERATOR WELL NO. 214
Well Pad Name: SLH

Notice is hereby given by:

Well Operator: Arsenal Resources

Telephone: 724-940-1100

Email: eglick@arsenalresources.com

E. J. Hlick

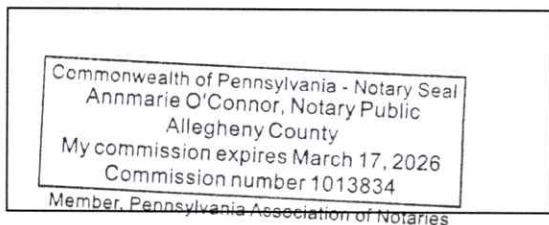
Address: 6031 Wallace Road Ext, Suite 200

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.



Subscribed and sworn before me this 15th day of May 2025
Annmarie O'Connor Notary Public
My Commission Expires 3/17/2026

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Office of Oil and Gas

MAY 19 2025

WV Department of
Environmental Protection

06/27/2025

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: 5/1/2025 **Date of Planned Entry:** 5/8/2025

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: Jerry R. Newbrough
Address: 4794 Brushy Fork Road
Bridgeport, WV 26330
Name: _____
Address: _____
Name: _____
Address: _____

☐ **COAL OWNER OR LESSEE**

Name: See Attached
Address: _____

☐ **MINERAL OWNER(s)**

Name: See Attached
Address: _____

*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: Simpson
Quadrangle: Brownston

Approx. Latitude & Longitude: 39.2185113, -80.2171650
Public Road Access: Co. 23/9 (Brushy Fork Rd)
Watershed: Elk Creek
Generally used farm name: Newbrough

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 57th 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.

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.

06/27/2025

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: 05/13/2025

Date Permit Application Filed: 05/15/2025

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: Jerry R. Newbrough

Address: 4749 Brushy Fork Road
Bridgeport, WV 26330

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: Simpson
Quadrangle: Brown-ton
Watershed: Elk Creek

UTM NAD 83 Easting: 567183.729
Northing: 4341221.870
Public Road Access: Co. 23/9 (Brushy Fork Rd)
Generally used farm name: Newbrough

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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Office of Oil and Gas
MAY 19 2025
Department of
Environmental Protection

Well Operator: Arsenal Resources
Telephone: 724-940-1100
Email: eglick@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.

06/27/2025

4703306112

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

Well Location Restrictions

WAIVER

UTM NAD 83 Easting: 567149.645
UTM NAD 83 Northing: 4341238.184
Public Road Access: C.P. 22.4-BRUSHY FORK RD
Generally used farm name:

06/27/2025



4703306112

**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

May 8, 2025

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 SLH Well Pad, Harrison County
SLH 211 Well Site SLH 212 Well Site SLH 213 Well Site
SLH 214 Well Site SLH 215 Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2025-7070 which has been issued to Arsenal Resources, LLC for access to the State Road for a well site located off Harrison County Route 23/9 SLS MP 1.938.

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,

Lacy D. Pratt
Central Office O&G Coordinator

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Office of Oil and Gas

MAY 19 2025

WV Department of
Environmental Protection

Cc: Emily Glick
Arsenal Resources, LLC
OM, D-4
File

06/27/2025

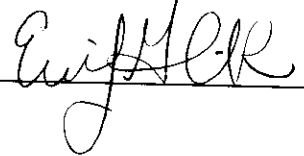
4703306112

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

06/27/2025

OPERATOR: Arsenal Resources, LLC WELL NO: 214

PAD NAME: SLH

REVIEWED BY: Emily Glick SIGNATURE: 

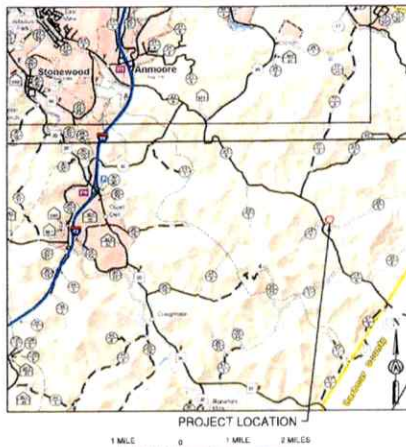
WELL RESTRICTIONS CHECKLIST

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

06/27/2025



VICINITY MAP
HARRISON COUNTY, WV
GENERAL HIGHWAY MAP



PERMITTING PLANS FOR S.L.H. WELL PAD & AST PAD PROPOSED WELL #'s 211, 212, 213, 214, & 215 HARRISON COUNTY, WV MAY 2025

*Just Report
5-15-2025*

SITUATE ON THE WATERS OF THE WEST FORK
IN SIMPSON OUTSIDE DISTRICT, HARRISON COUNTY, WEST VIRGINIA

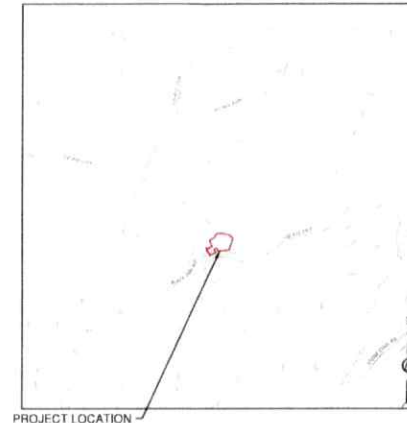
LOCATION COORDINATES

ACCESS ROAD ENTRANCE:			
LATITUDE: 39°13' 03.77" N	LONGITUDE: 80°13' 23.34" W	(DECIMAL DEGREES)	
NORTHING: 26192.8085	EASTING: 176558.3194	(WV SP-83, FEET)	
NORTHING: 4340913.213	EASTING: 567043.885	(UTM ZONE 17, METERS)	
WELL PAD CENTER:			
LATITUDE: 39°13' 03.55" N	LONGITUDE: 80°13' 18.29" W	(DECIMAL DEGREES)	
NORTHING: 26220.7918	EASTING: 176401.7357	(WV SP-83, FEET)	
NORTHING: 4341221.870	EASTING: 567183.729	(UTM ZONE 17, METERS)	

WELL NUMBER	STATE PLANE (NAD83) N	STATE PLANE (NAD83) E	UTM (NAD83) N	UTM (NAD83) E	UTM (NAD83) ZONE	PROPOSED ELEVATION
211	262251.985	176388.897	4341233.143	567142.019	36 217764	1045.00
212	262250.259	176387.505	4341233.143	567142.019	36 217764	1045.00
213	262250.122	176389.154	4341233.143	567142.019	36 217764	1045.00
214	262276.185	176390.802	4341238.184	567140.645	36 217831	1045.00
215	262264.248	176391.451	4341240.705	567163.457	36 217831	1045.00

LIMITS OF DISTURBANCE BY PROPERTY

PROPERTY#	PROPERTY OWNER	ACRES DISTURBED
TAX MAP 370, PARCEL 19.1	JERRY R. NEWBROUGH	0.34 AC
TAX MAP 370, PARCEL 25, TRACT 2	JERRY R. NEWBROUGH	9.13 AC
PHILLIPS PIKE R.O.W.	WEST VIRGINIA DEPT. OF HIGHWAYS	0.12 AC
TOTAL LIMITS OF DISTURBANCE:		9.59 ACRES



LOCATION MAP
BROWNTON QUADRANGLE MAP

LEGEND	
EXISTING CONTIGUOUS	PROPOSED CONTIGUOUS
EXISTING PROPERTY LINES	PROPOSED PROPERTY LINES
EXISTING RIGHT OF WAY	PROPOSED RIGHT OF WAY
EXISTING FENCE LINES	PROPOSED FENCE LINES
EXISTING ROAD LINES	PROPOSED ROAD LINES
EXISTING CENTER LINE OF ROAD	PROPOSED CENTER LINE OF ROAD
EXISTING BUILDING	PROPOSED BUILDING
EXISTING DRAINAGE	PROPOSED DRAINAGE
EXISTING POWER LINE	PROPOSED POWER LINE
EXISTING TELEPHONE LINE	PROPOSED TELEPHONE LINE
EXISTING WATER LINE	PROPOSED WATER LINE
EXISTING GAS LINE	PROPOSED GAS LINE
EXISTING OIL LINE	PROPOSED OIL LINE
EXISTING OTHER LINE	PROPOSED OTHER LINE



LOCATION MAP NOT TO SCALE

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

ARSENAL RESOURCES, LLC
8031 WALLACE ROAD EXT., SUITE 200
WEXFORD, PA 15090
WWW.ARSNLR.COM
(724) 940-1100



PREPARED BY:



1700 ANNOCORE ROAD
BRIDGEPORT, WV 26330
WWW.ASCENTWV.COM
(204) 933-3483

PROJECT NUMBER	4254	DRAWN	EMS
DATE	5/1/2025	DESIGN	EMS
SCALE	AS SHOWN	CHECKED	MRN
CONSTRUCTION PLANS FOR ARSENAL RESOURCES S.L.H. WELL PAD & AST PAD HARRISON COUNTY, WV			
TITLE	COVER SHEET		
PLAN STATUS	PERMITTING	SHEET NO.	1

ENTRANCE PERMIT

ARSENAL RESOURCES HAS OBTAINED ENCROACHMENT PERMIT # 04-2025-7070 FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #2024-1008 IN ADDITION, MISS UTILITY WILL BE CONDUCTED PRIOR TO START OF THE PROJECT.

FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT ARE LOCATED WITHIN DELINEATED FLOOD HAZARD ZONE PER FLOOD INSURANCE RATE MAP NUMBER 5463C028050 DATED OCTOBER 2, 2016.

GEOTECHNICAL NOTE

A SURFACE INVESTIGATION WAS PERFORMED ON 3/1/2025 BY NGE AND AS A RESULT FROM THAT INVESTIGATION ARE ILLUSTRATED IN A REPORT OF GEOTECHNICAL INVESTIGATION DATED 4/14/2025. REFER TO SAID REPORT FOR ADDITIONAL DETAILS AND RECOMMENDATIONS.

ENVIRONMENTAL NOTE

A WETLAND/STREAM DELINEATION WAS PERFORMED IN MARCH 2025 BY ASCENT CONSULTING AND ENGINEERING TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE). THIS DELINEATION IS NOT IN ANY WAY REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE. IT IS STRONGLY RECOMMENDED THAT THE USACE BE CONSULTED IN AN EFFORT TO OBTAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS REPORT PRIOR TO ENGAGING IN CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S. INCLUDING WETLAND FILL AND STREAM CROSSINGS.

RESTRICTIONS NOTES:

1. THERE ARE NO WATERS WITHIN 100 FEET OF THE WELL PAD LOC. PERMIT WAIVERS WILL BE APPLIED FOR.
2. THERE ARE NO EPHEMERAL STREAM IMPACTS WITHIN THE TOTAL SITE LOC.
3. THERE ARE NO INTERMITTENT STREAM IMPACTS WITHIN THE TOTAL SITE LOC.
4. THERE ARE NO PERMANENT STREAM IMPACTS WITHIN 100 FEET OF THE WELL PAD LOC.
5. THERE ARE NO NATURALLY OCCURRING FLOOD STREAMS WITHIN 300 FEET OF THE WELL PAD LOC.
6. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 100 FEET OF THE WELL PAD LOC.
7. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 200 FEET OF THE WELLS/ BUNG CHILLO.
8. THERE IS A DWELLING WITHIN 625 FEET OF THE CENTER OF THE WELL PAD. PERMIT WAIVERS WILL BE APPLIED FOR.
9. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

SHEET INDEX	
NO.	DESCRIPTION
1	COVER
2	GENERAL NOTES
3	EXISTING CONDITIONS
4	OVERALL SITE GRADING & ESC PLAN
5	DETAILED SITE GRADING PLAN
6	ACCESS ROAD PROFILE
7	SUMP & CULVERT PROFILES
8	WELL PAD/AST LINE PROFILE
9	CROSS SECTIONS
10	RECLAMATION PLAN
11	DETAILS

TOPOGRAPHIC INFORMATION
HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE IN
WEST VIRGINIA STATE PLANES, NORTH ZONE, IN U.S. SURVEY FEET.

WV Department of
Environmental Protection

MAY 19 2025

Office of Oil and Gas
RECEIVED

UTILITY CONTACTS:

HOPE GAS
403 BRUSHY FORK RD.
CLARKSBURG, WV 26301
TYLER HITT
PHONE: (801) 209-6740
EMAIL: JAMES.T.HITT@HOPEGAS.COM

WEST VIRGINIA RURAL ELECTRIC

403 BRUSHY FORK RD.
BRIDGEPORT, WV 26330
JASON LEMLEY
PHONE: (204) 822-1665
EMAIL: JASON.D.LEMLEY@WVREC.COM

611 EMERGENCY ADDRESS

S.L.H. WELL PAD
4705 BRUSHY FORK RD.
BRIDGEPORT, WV 26330

LOCAL EMERGENCY SERVICES

NAME	NUMBER
AMBULANCE	911
HOSPITAL/EMERGENCY ROOM	(801) 342-1100
FIRE DEPARTMENT	911
POLICE DEPARTMENT	911
POISON CONTROL CENTER	(800) 222-1222

PROJECT CONTACTS:

ENGINEER:
MICHAEL NESTOR, PE
ASCENT CONSULTING & ENGINEERING
1700 ANNOCORE ROAD
BRIDGEPORT, WV 26330
PHONE: (204) 933-3483
EMAIL: MNESTOR@ASCENTWV.COM

CONSTRUCTION SUPERINTENDENT:

JONATHAN GRAY
ARSENAL RESOURCES
8031 WALLACE ROAD EXT., SUITE 200
WEXFORD, PA 15090
PHONE: (204) 668-1084
EMAIL: JGRAY@ARSNLR.COM



MISS UTILITY OF WEST VIRGINIA
1-800-368-8848
WEST VIRGINIA STATE LAW
(SECTION XIV, CHAPTER 24C)
REQUIRES THAT YOU CALL TWO
BUSINESS DAYS BEFORE YOU DIG IN
THE STATE OF WEST VIRGINIA.
IT'S THE LAW!

4703306112



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
dep.wv.gov

**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: Arsenal Resources, LLC
6031 Wallace Rd Ext., Suite 101
Wexford PA 15090

DATE: June 25, 2024
ORDER NO.: 2025-W-3

INTRODUCTION

This Order (hereinafter “Order”) is issued by the Office of Oil and Gas (hereinafter “OOG”), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Arsenal Resources, LLC (hereinafter “Arsenal” or “Operator”), collectively the “Parties.”

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Arsenal is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as 6031 Wallace Rd Ext., Suite 101, Wexford PA 15090.
3. On May 9, 2025, Arsenal submitted well work permit applications identified as API# 47-033-06111 and 47-033-06112. The well is located on the SLH Pad in the Simpson District of Harrison County, West Virginia.
4. On May 9, 2025, Arsenal requested a waiver for Wetland 3 and Perennial Stream 2 as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-033-06111 and 47-033-06112. Wetlands 2 and 4 are not within 100 feet of the LOD of the pad.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “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 Office of Oil and Gas 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 Office of Oil and Gas 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.”

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that “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. The Office of Oil and Gas grants the request for a waiver for Wetland 3 and Perennial Stream 2 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-033-06111 and 47-033-06112. The Office of Oil and Gas hereby **ORDERS** that Arsenal shall meet the following site construction and operational requirements for the SLH Well Pad:

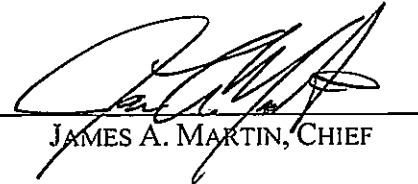
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland 3 and Perennial Stream 2 shall be protected by the pad perimeter berm, a row of twelve-inch (12”) Compost Filter Sock and Smart Fence HD. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands and stream;
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 25th day of June 2025.

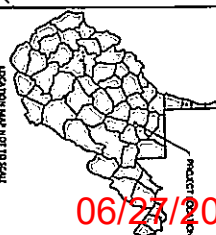
IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:



JAMES A. MARTIN, CHIEF



06/27/2025



PRODUCT NUMBER:	4254	DATE:	05/06/20
CALL:	6/18/2025	TIME:	04:15
SCALE:	AS SHOWN	BY:	MRN

**CONSTRUCTION PLANS FOR
ARSENAL RESOURCES
S.L.R. WELL PAD & AST PAD
HARRISON COUNTY, WY**

OVERALL SITE GRADING & ESC PLAN	
PLAN STATUS:	PROJECT NUMBER
PERMITTING	6A

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: 47-033-06111

Operator's Well Number: 213

Well Operator: ARSENAL RESOURCES, LLC

Well Number: 213

Well Pad Name: SLH WELL PAD & AST PAD

County, District, Quadrangle of Well Location: HARRISON, SIMPSON-OUTSIDE, BROWNTON

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

06/27/2025

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The proposed S.L.H Well Pad and AST Pad project is located southeast of Bridgeport in Harrison County, West Virginia. Approximate coordinates of the center of the proposed well pad are 39.217681 N and 80.221747 W. The wetlands and stream within 100 feet of the LOD are as follows:

Wetland 2: PEM, 0.045 AC

Wetland 3: PEM, 0.154 AC

Wetland 4: PEM, 0.004 AC

Stream 2 - perennial, 1,612 linear feet within area of investigation

2. Justify the proposed activity by describing alternatives to this project that were considered.

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

The S.L.H. Well Pad and AST Pad is not able to meet the 100' setback requirements from adjacent wetlands. The physical location of the pad has been approved by the surface owner. The well head locations have been strategically placed in order to be drilled through geological targeted formation(s), therefore, the well head locations cannot be moved. The current pad dimensions are necessary to safely setup the drilling rig. A long narrow pad could not be achieved and still maintain enough room for the drilling rig and associated equipment. The Limits of disturbance encroaching into the wetlands around the well pad is also necessary for proper construction and maintenance of the Erosion Control BMP's.

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: 47-033-06111

Operator's Well Number: 213

3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

Refer to Attachment A for details.

4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.

- a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

There is no preferred alternative available for this well pad due to specifics sited in #2 above.

Please refer to Attachment A.

06/27/2025

Wetland and Perennial Stream Waiver Request – Attachment A

Arsenal Resources, LLC
S.L.H Well Pad and AST Pad
Harrison County, WV

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

Addressed on initial wetland/perennial stream waiver form attached. All streams and wetlands identified within the project area are identified on the Stream and Wetland Delineation Map. There are no wetlands being impacted within the limits of disturbance (LOD).

2. N/A: Addressed on initial wetland/perennial stream waiver form attached.
3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

ROCK CONSTRUCTION ENTRANCE

A rock construction entrance will be provided at the location shown on the plans and in accordance with the standard detail provided in the Erosion and Sediment Control Plan. This measure proves effective removing sediment from vehicles before entering onto State, and county roads. The rock construction entrance thickness shall be constantly maintained to the specified dimensions by adding rock. A stockpile shall be maintained onsite for this purpose. At the end of each construction day, all sediment deposited on paved roadways shall be removed and returned to the construction site. If the crushed stone does not adequately remove sediment from vehicle tires, the tires should be hosed off before the vehicle enters a public street. The washings should be done on an area covered with crushed stone, and the water wash should drain to a sediment control device.

DIVERSION DITCHES

A channel will be used to convey stormwater runoff in a stable manner from the tank pad site construction area. The channel will be lined with erosion control matting to help keep seed in place once final grades are established. Channels shall be inspected twice a month until a uniform 70% perennial vegetative cover is established. Any damage to the channel or erosion control blanket shall be fixed immediately. The contractor is to place seed on all bare spots and areas not establishing ground cover.

COLLECTION / ROADSIDE DITCHES

Collection/roadside channels will be used to convey stormwater runoff in a stable manner from the tank pad site and access road. Depending on the velocity of flow in each channel, the channel will be vegetated or lined with riprap. See ditch calculation table provided in the attached Erosion and Sediment Control Plan for details.

If vegetated, channels shall be inspected twice a month until a uniform 70% perennial vegetative cover is established. Any damage to the channel or erosion control blanket shall be fixed immediately. The contractor is to place seed on all bare spots and areas not establishing ground cover.

If the channel is lined with riprap it shall be inspected within 24 hours after every storm event greater than 0.5 inches of rain per 24 hour period. Replace stone as necessary. If consistent washouts persist, install rock check dam to slow velocity of runoff in the washout area.

Wetland and Perennial Stream Waiver Request – Attachment A

Arsenal Resources, LLC
S.L.H Well Pad and AST Pad
Harrison County, WV

RIP RAP OUTLET PROTECTION

Rock Aprons will be used at storm sewer outfalls to dissipate the velocity coming from storm pipes, helping prevent erosion/scour of existing drainage ways and features.

The rock aprons shall be inspected weekly until a uniform 70% perennial vegetation has established. Any visible damage shall be fixed by the end of the working day by placing additional riprap in the damaged area with a layer of geotextile. Place additional stone as necessary to prevent further erosion.

4. **Provide mapping, plans, specifications, and design analysis for the preferred alternative to the project.** Plans and specifications for the well pad and access road are included. There is no preferred alternative available for the well pad.
 - a. **Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.**

SUPER SILT / SMART FENCE HD

Smart fence shall be installed in the locations shown on the plans and in accordance with the standard detail provided in the ESCP. Accumulated sediments shall be removed in all cases where accumulations have reached half the above ground height of the sock. If the fence has been damaged, it shall be repaired or replaced if beyond repair. The filter media will be dispersed on site once the disturbed area has been permanently stabilized. Adhere to manufacturer's recommendations. The smart fence can be doubled for added protection within the vicinity of the wetlands that are near the limits of disturbance during construction if field conditions change.

EROSION CONTROL MATTING

The specified products or approved equivalent erosion control matting will be installed within all permanent channels and on all slopes 3:1 or greater. The erosion control matting shall be inspected weekly and after every rainfall event to look for scour/washout areas. Any scoured areas shall be fixed immediately by compacting soil in the washout area and placing seed. Any damaged erosion control matting shall be replaced immediately. Matting shall be maintained until a uniform 70% perennial vegetation has been established.

TEMPORARY VEGETATIVE STABILIZATION

Fertilizing, seeding, and mulching will be used as a temporary E&S control measure on all disturbed areas as needed. Exposed soils not subject to construction traffic shall not remain unseeded or covered by mulch for more than twenty-one (21) days, including stockpiled soil materials. Refer to the seeding mixtures provided on the erosion and sedimentation control general notes drawing of the Erosion and Sediment Control Plan for temporary seed mixtures.

The contractor shall vegetate all disturbed areas at the earliest appropriate times for establishment of temporary or permanent seed mixtures, respectively. When site development staging or season will not permit timely sowing of the permanent seed mixture(s), prepare soils as for permanent seeding, seed with temporary seed mixture and mulch, and then over-sow the perennial seed mixture into the stubble of temporary vegetation at the next appropriate seeding season.

Wetland and Perennial Stream Waiver Request – Attachment A

**Arsenal Resources, LLC
S.L.H Well Pad and AST Pad
Harrison County, WV**

PERMANENT VEGETATIVE STABILIZATION

Fertilizing, seeding and mulching will be used as a permanent E&S control measure on all disturbed areas. Refer to the permanent seed mixture provided on the erosion and sediment control plan's general notes drawing. The contractor shall inspect the site twice a week until a 70% perennial vegetative cover is established. The contractor is to place seed on all bare spots and disturbed areas not establishing ground cover.