



west virginia department of environmental protection

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

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

Monday, April 13, 2026
WELL WORK PERMIT
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC
6031 WALLACE RD. EXT. SUITE 200

WEXFORD, PA 15090

Re: Permit approval for Mackey Wolfe 204
47-001-03366-00-00

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.

H. Jason Harmon
Acting Chief

Operator's Well Number: Mackey Wolfe 204
Farm Name: Margaret Mackey (Life Estate) & John M Wolfe
U.S. WELL NUMBER: 47-001-03366-00-00
Horizontal 6A New Drill
Date Issued: 4/13/2026

Promoting a healthy environment.

04/17/2026

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.

04/17/2026

WW-6B
(04/15)

4700103366
API NO. 47-001 -
OPERATOR WELL NO. Mackey Wolfe 204
Well Pad Name: Mackey Wolfe

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

1) Well Operator: Arsenal Resources

494519412	Barbour	Cove	Thornton
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Operator ID County District Quadrangle

2) Operator's Well Number: Mackey Wolfe 204 Well Pad Name: Mackey Wolfe

3) Farm Name/Surface Owner: MACKEY MARGARET & JOHN M WOLFE Public Road Access: WW 92

4) Elevation, current ground: 1626.8' Elevation, proposed post-construction: 1626.8'

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

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale, 7,785' (TVD Top) - 7,895' (TVD Bottom), 110 ft, 0.5 psi/ft

8) Proposed Total Vertical Depth: 7,890'

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 27,100

11) Proposed Horizontal Leg Length: 18,801'

12) Approximate Fresh Water Strata Depths: 75', 173', 195', 240', 280', 555', 660', 710', 735'

13) Method to Determine Fresh Water Depths: Offsetting well reported water depths (001-02942, 001-03062, 001-02937, 001-02939, 001-02943)

14) Approximate Saltwater Depths: 1,700'

15) Approximate Coal Seam Depths: Harlem-82', Brush Creek-257', Bakerstown-167', Upper Freeport-337', Lower Freeport-387', Upper Kittanning-447', Lower Kittanning-537', Clarion-582'

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: _____

Kenny Willett

2/19/26

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	800	800	CTS
Coal							
Intermediate	9.625	New	J-55	40	1,930	1,930	CTS
Production	5.5	New	P-110	20	27,100	27,100	TOC @ 1,780
Tubing							
Liners							

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

3/20/26

Kenny Willett

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): 6.25

22) Area to be disturbed for well pad only, less access road (acres): 6.03

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 1,880'; there will be no centralizers from 1,880' 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 1,780' (+/- 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 stands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are noticed, we will re-run the previous stand of pipe pulled across and circulate 2x bottoms up while watching shakers for signs of cuttings. Once at the base curve, the string will be continuously rotated while pumping 2x bottoms up. We will pull three stands and fill the hole until we reach the vertical section of the well.

*Note: Attach additional sheets as needed.

Kenny Willett

2/19/26

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

MAR 11 2026
 MAINTENANCE DEPARTMENT OF
 THE STATE OF TEXAS



4700 103366

People Powered. Asset Strong.

March 4, 2026

West Virginia Department of Environmental Protection
Office of Oil and Gas
ATTN: Taylor Brewer
601 57th Street SE
Charleston, WV 25304

RECEIVED
Office of Oil and Gas

MAR 11, 2026

WV Department of
Environmental Protection

RE: Mackey Wolfe #204 – Permit Application – New Well Permit

Dear Mr. Brewer,

Enclosed please find the permit application and permit review fee for the Mackey Wolfe #204 lateral. I have enclosed a USB flash drive containing the E&S Plan, Site Safety Plan, and the MSDS.

As part of the permit application for the Mackey Wolfe #204 lateral, Arsenal Resources is requesting a cement variance. Arsenal's third-party cement contractors are being switched over to Class L cement and many are unable to secure the required supplies of Class A to meet our operational needs. The modification includes the listing of Class L with Class A Cement allowing for options depending upon our suppliers' product. This requires the modification to Class L based on West Virginia Department of Environmental Protection, Office of Oil and Gas order number 2022-14.

Should you have any questions or need any additional information, please feel free to contact me by phone or email.

Sincerely,

A handwritten signature in blue ink that reads 'Emily Glick'.

Emily Glick
Geologist & Permitting Specialist
(c) 724-759-9612
(e) eglick@arsenalresources.com

6031 Wallace Road Ext., Suite 200
Wexford, PA 15090
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04/17/2026



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.

Transmitted by email to: [redacted]

04/17/2026

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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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WV Department of
Environmental Protection

04/17/2026



Arsenal Resources
Mackey Wolfe #204
Casing Design

Other Names:	Mackey Wolfe #204
Surface Location:	LAT 39.255347 N x Long 79.886830 W
Bottom Hole Location:	LAT 39.207950 N x Long 79.855730 W
Directional Plan Vs.	10,224
Total Depth (MD)	27,100

County:	Barbour		
State:	WV		
AFE #:	000000	API #:	47-001-
RKB:	27		
Ground Level:	1,626		

Logs	Significant Formations (TVD)	Depth (ft) MD	Depth (ft) TVD	Hole Size	Casing and Cement	Mud	Directional & Surveys Drlg /Csg Point
None	Section 1	80	80	24" 102.7# H-40 BTC	Vertical		
None	Section 2	800	800	17 1/2" (PDC)	Floc Water		
Possible CBL after cement job		800	800	13 3/8" 54.5# J-55 LTC	Vertical		
None	Section 3	1,930	1,930	12 1/4" (PDC)	Floc Water		
Wireline: None Mudloggers: KOP - TD KOP @ 7,174	Section 4	7,174	7,174	9 5/8" 40# J-55 LTC	Vertical		

Cement		Class A/L, 3% CaCl2	
Density/Yield/Volume (sx)	15.6	1.2	703
TOC	Surface		

Cement (Lead/Tail)		Class A/L, 3% CaCl2		Class A/L, 3% CaCl2	
Density/Yield/Volume (sx)	14.5	1.19	712		
TOC	Surface				

Mud Data	From	To
Floc Water	80	1930
Floc Water	1930	6,500
11.5- 12.0 ppg SOBM	6,500	27,100

Bit Data	From	To
17- 1/2" & 12 1/4" PDC	80	1930
8- 3/4" (PDC)	1930	6,500
8- 1/2" (PDC)	6,500	27,100

Directional Data	
KOP	7,174
Curve	8"/100 ft
	Angle 90.0
	Azi 156
EOB	MD 27,100
	TVD 7,890

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

Cement		Production	
Lead	13.8	Lead: 50-50 Poz/A	TBD
Tail	15	Tail: Class A	TBD
TOC	1,780		

MD 27,100
TVD 7,890
Azimuth 156

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

Revision 1

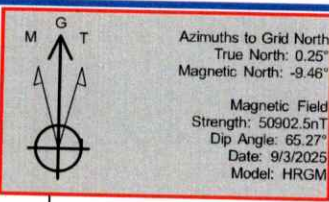
Note: Not drawn to scale

Cement Outside Casing Seal Assembly in Annulus

Date Last Revised: February 2026
Ross Schweitzer



Project: Barbour Co, WV (NAD83 - WV N)
 Site: Mackey Wolfe Pad
 Well: Mackey Wolfe 204
 Wellbore: OH
 Design: Plan #7
 Lat: 39.255347
 Long: -79.886830
 GL: 1626.00
 KB: RKB @ 1653.00usft



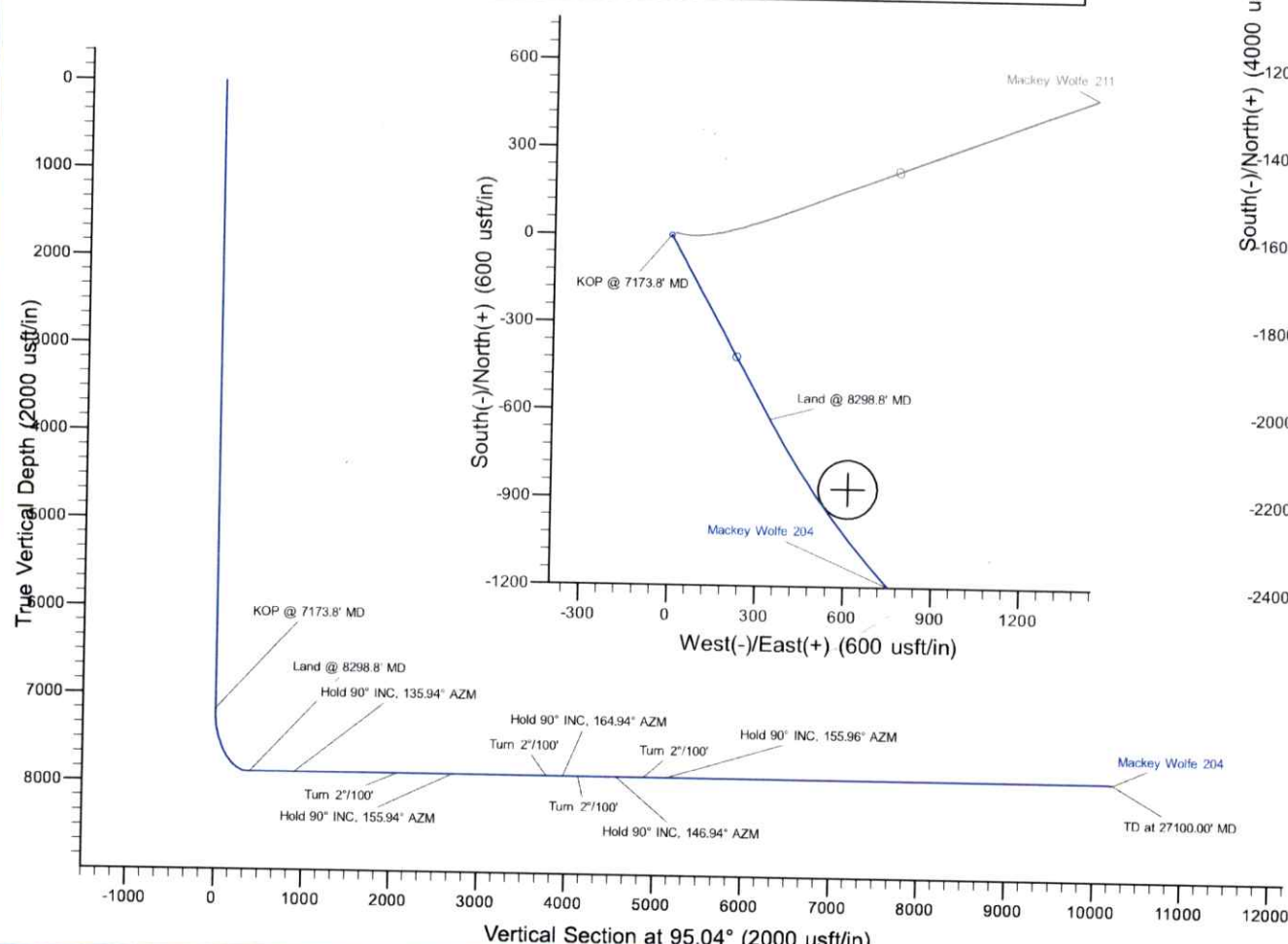
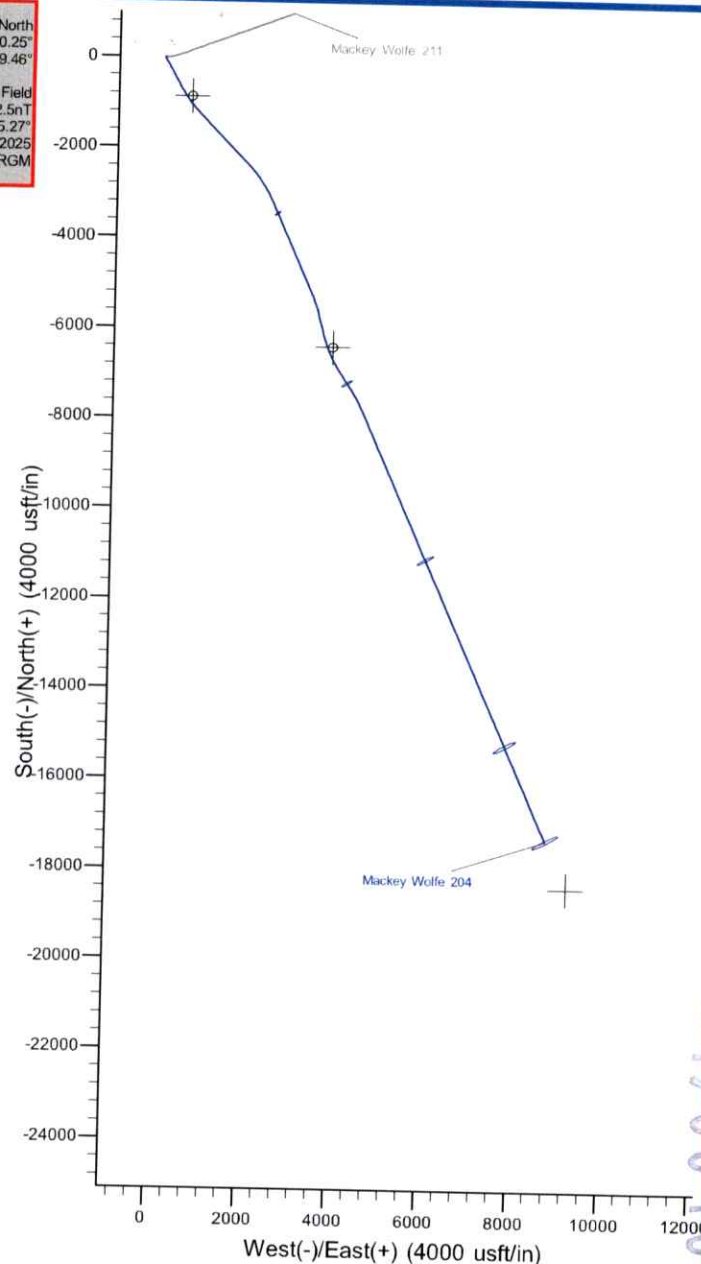
Azimuths to Grid North
 True North: 0.25°
 Magnetic North: -9.46°
 Magnetic Field
 Strength: 50902.5nT
 Dip Angle: 65.27°
 Date: 9/3/2025
 Model: HRGM

WELL DETAILS: Mackey Wolfe 204

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	275353.97	1858961.09	39.255347	-79.886830

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7173.80	0.00	0.00	7173.80	0.00	0.00	0.00	0.00	0.00	KOP @ 7173.8' MD
8298.80	90.00	151.25	7890.00	-627.91	344.48	8.00	151.25	398.31	Land @ 8298.8' MD
9064.30	90.00	135.94	7890.00	-1242.18	797.45	2.00	-90.00	903.49	Hold 90° INC, 135.94° AZM
11624.30	90.00	135.94	7890.00	-2363.22	1882.29	0.00	0.00	2082.62	Turn 2°/100'
13837.08	90.00	155.94	7890.00	-3187.47	2439.51	2.00	90.00	2710.10	Hold 90° INC, 155.94° AZM
14287.08	90.00	155.94	7890.00	-5208.00	3341.65	0.00	0.00	3786.26	Turn 2°/100'
14787.08	90.00	164.94	7890.00	-5631.60	3492.15	2.00	90.00	3973.39	Hold 90° INC, 164.94° AZM
15687.08	90.00	164.94	7890.00	-6114.43	3622.06	0.00	0.00	4145.22	Turn 2°/100'
16187.08	90.00	146.94	7890.00	-6932.86	3987.48	2.00	-90.00	4581.12	Hold 90° INC, 146.94° AZM
16638.00	90.00	146.94	7890.00	-7351.91	4260.24	0.00	0.00	4889.64	Turn 2°/100'
27100.00	90.00	155.96	7890.00	-7747.59	4475.53	2.00	90.00	5138.86	Hold 90° INC, 155.96° AZM
				-17302.01	8737.73	0.00	0.00	10223.95	TD at 27100.00' MD



4700103366

4700 103366

WW-9
(4/16)

API Number 47 - 001 - _____
Operator's Well No. Mackey Wolfe 204

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) Sandy Creek Quadrangle Thornton

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

RECEIVED
Office of Oil and Gas
MAR 11 2026
WV Department of
Environmental Protection

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

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

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

Company Official Signature Emily Glick
Company Official (Typed Name) Emily Glick
Company Official Title Geologist & Permitting Specialist

Subscribed and sworn before me this 2nd day of March, 2026

Jeraldine A Marlowe
My commission expires 9/9/26

Notary Public
Commonwealth of Pennsylvania - Notary Seal
Jeraldine A. Marlowe, Notary Public
Allegheny County
My commission expires September 9, 2026
Commission Number 1103431
Member, Pennsylvania Association of Notaries
04/17/2026

6700103366

Form WW-9

Operator's Well No. Mackey Wolfe 204

Arsenal Resources

Proposed Revegetation Treatment: Acres Disturbed 6.25 Prevegetation pH 6.8 average

Lime 2.67 Tons/acre or to correct to pH 6.4

Fertilizer type 10-20-20

Fertilizer amount 1000 lbs/acre

Mulch 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: Kenny Willatt

Comments: _____

RECEIVED
Barbour County Gas
MAR 11 2026
NY Department of
Environmental Protection

Title: Barbour Co. Inspector

Date: 2/19/26

Field Reviewed? () Yes (X) No

04/17/2026



ARSENAL
R E S O U R C E S

SITE SAFETY PLAN

Mackey Wolfe Well Pad

911 Address:

18394 Morgantown Pike
Moatsville, WV 26405

Kenny Willett

2/19/26

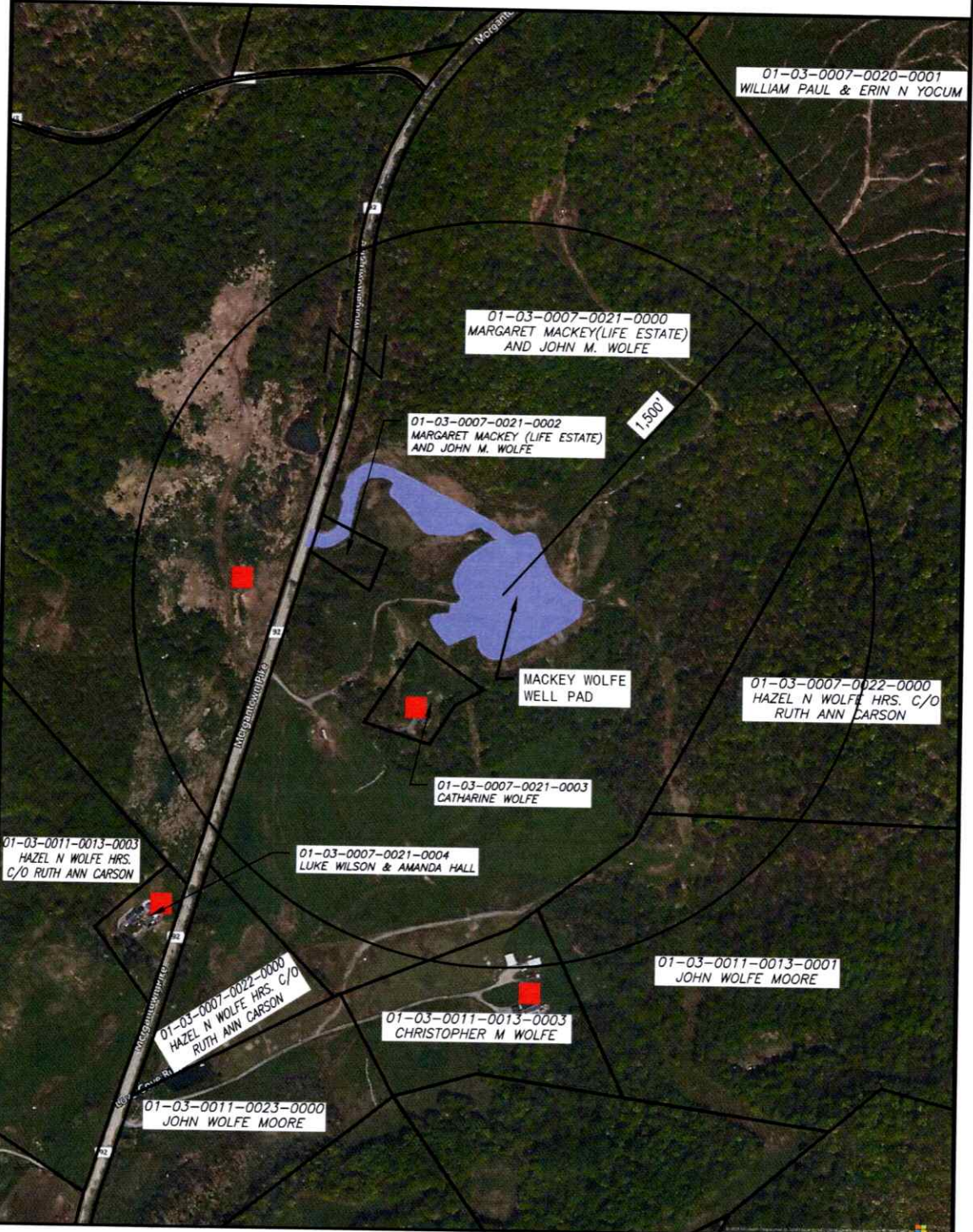
1

Kenny Willett

4/14/25

04/17/2026

ARSENAL RESOURCES MACKEY WOLFE WELL PAD POSSIBLE WATER PURVEYORS WITHIN 1500'



■ = APPARENT RESIDENTS

500' 0 500'

 GRAPHIC SCALE IN FEET

ASCENT
 Consulting & Engineering

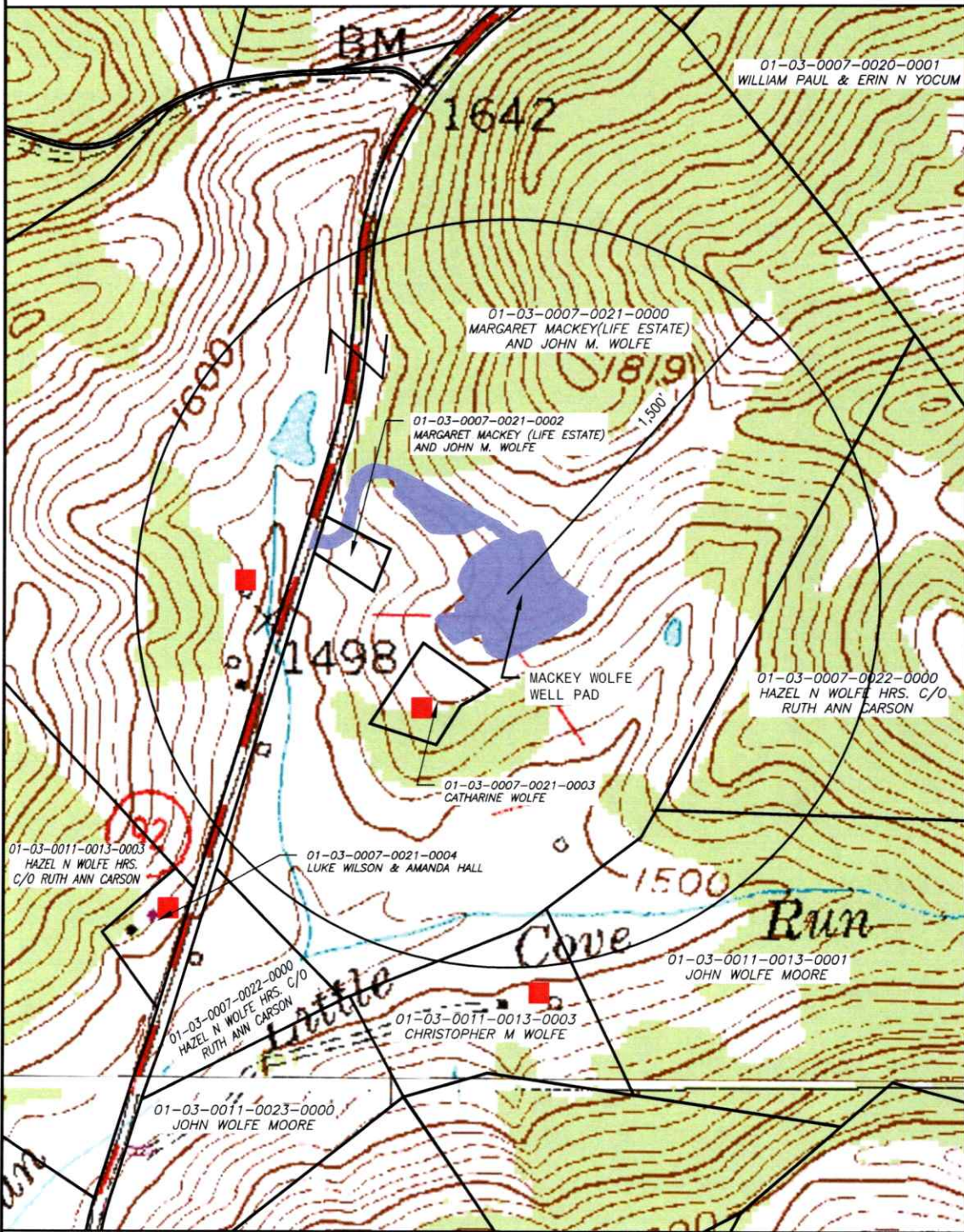
SURVEYOR/ENGINEER
 1700 ANMOORE RD.
 BRIDGEPORT, WV 26330
 1-304-833-3463

2024 AERIAL		OPERATOR:	
COUNTY	DISTRICT	ARSENAL RESOURCES	
BARBOUR	COVE	6031 WALLACE RD. EXT. SUITE 101	
		WEXFORD, PA 15090	
DRAWN BY	JOB No.	DATE	SCALE
TMF	3955	12-09-2024	1"=500'

ARSENAL
 RESOURCES

ARSENAL RESOURCES MACKEY WOLFE WELL PAD POSSIBLE WATER PURVEYORS WITHIN 1500'

GRID NORTH
SPCS: NAD83 WV NORTH, US FT



ASCENT
Consulting & Engineering

SURVEYOR/ENGINEER
1700 ANMOORE RD.
BRIDGEPORT, WV 26330
T-304-933-3483

TOPO SECTIONS	
COLEBANK 7.5'	NESTERVILLE 7.5'
FELLOWSVILLE 7.5'	THORNTON 7.5'
COUNTY	DISTRICT
BARBOUR	COVE
DRAWN BY	JOB No.
TMF	3955

OPERATOR:	
ARSENAL RESOURCES	
6031 WALLACE RD. EXT. SUITE 101	
WEXFORD, PA 15090	
DATE	SCALE
12-09-2024	1"=500'

ARSENAL
RESOURCES

POSSIBLE WATER PURVEYORS WITHIN 1,500 FEET

Well Pad: Mackey Wolfe Well Pad
District: Cove
County: Barbour
State: WV

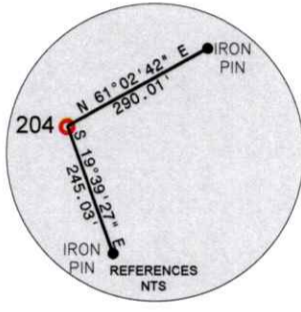
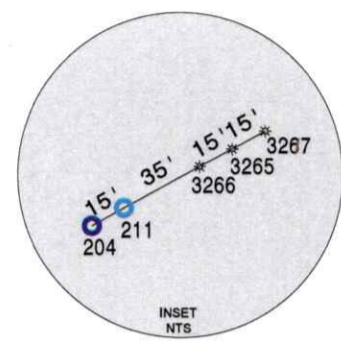
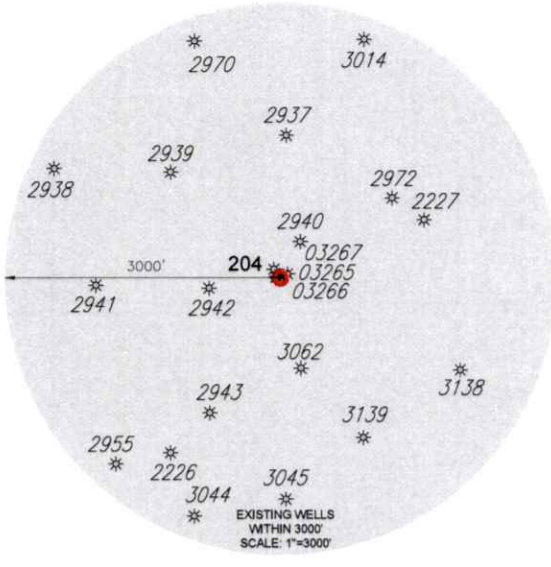
<p>01-03-0007-0021-0000</p> <p>MARGARET MACKEY (LIFE ESTATE) & JOHN M. WOLFE</p> <p>PHYSICAL ADDRESS:</p> <p>TAX ADDRESS: 6 CLAUDE RD. MOATSVILLE, WV 26405</p>	<p>01-03-0007-0021-0002</p> <p>MARGARET MACKEY (LIFE ESTATE) & JOHN M. WOLFE</p> <p>PHYSICAL ADDRESS:</p> <p>TAX ADDRESS: 3416 W. VAN OWEN ST. SPRINGFIELD, MO 65810</p>	<p>01-03-0007-0021-0002</p> <p>CATHARINE WOLFE</p> <p>PHYSICAL ADDRESS: 18392 MORGANTOWN PKE MOATSVILLE WV 26250</p> <p>TAX ADDRESS: 18392 MORGANTOWN PKE MOATSVILLE WV 26250</p>
<p>01-03-0007-0022-0000</p> <p>HAZEL N WOLFE HRS. C/O RUTH ANN CARSON</p> <p>PHYSICAL ADDRESS:</p> <p>TAX ADDRESS: PO BOX 406 WINTERVILLE, NC 28590</p>	<p>01-03-0011-0013-0001</p> <p>JOHN WOLFE MOORE</p> <p>PHYSICAL ADDRESS: 6 CLAUDE RD. MOATSVILLE, WV 26405</p> <p>TAX ADDRESS: 6 CLAUDE RD. MOATSVILLE, WV 26405</p>	<p>01-03-0011-0013-0003</p> <p>CHRISTOPHER M WOLFE</p> <p>PHYSICAL ADDRESS: 18034 MORGANTOWN PKE MOATSVILLE, WV 26405</p> <p>TAX ADDRESS: 3001 HACKBERRY RD. IRVING, TX 75063</p>

LATITUDE :39°12'30" SURFACE HOLE 3,350'
 BHL BOTTOM HOLE 6,346'



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

SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.255347° LONGITUDE: -79.886830°
SPCS (NAD83, WV NORTH, FEET): NORTHING: 275,353.970 EASTING: 1,858,961.090
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,345,703.763 EASTING: 596,045.142
LANDING POINT LOCATION (LPL):
GEOGRAPHIC (NAD83): LATITUDE: 39.253627° LONGITUDE: -79.885603°
SPCS (NAD83, WV NORTH, FEET): NORTHING: 274,725.955 EASTING: 1,859,305.711
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,345,514.160 EASTING: 596,153.319
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.207950° LONGITUDE: -79.855730°
SPCS (NAD83, WV NORTH, FEET): NORTHING: 258,054.552 EASTING: 1,867,699.299
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,340,477.100 EASTING: 598,794.996



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 RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUNDWATER 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 STATE PLANE, NAD83 DATUM, WEST VIRGINIA NORTH.
- 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* 02-26-2026



WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 204
		API WELL #: 47 STATE 001 COUNTY 03366 PERMIT

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

WATERSHED: SANDY CREEK ELEVATION: 1626.77

DISTRICT: COVE COUNTY: BARBOUR QUADRANGLE: THORNTON 7.5', WV

SURFACE OWNER: MARGARET MACKEY (LIFE ESTATE) & JOHN M WOLFE ACREAGE: ±226.815

OIL & GAS ROYALTY OWNER: MARGARET MACKEY (LIFE ESTATE) & JOHN M WOLFE ET AL ACREAGE: ±226.815

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) xxxxxxxx

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,800' TMD - 87,400' TMD

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

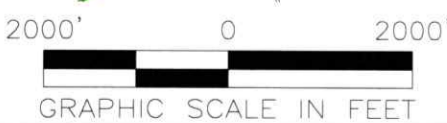
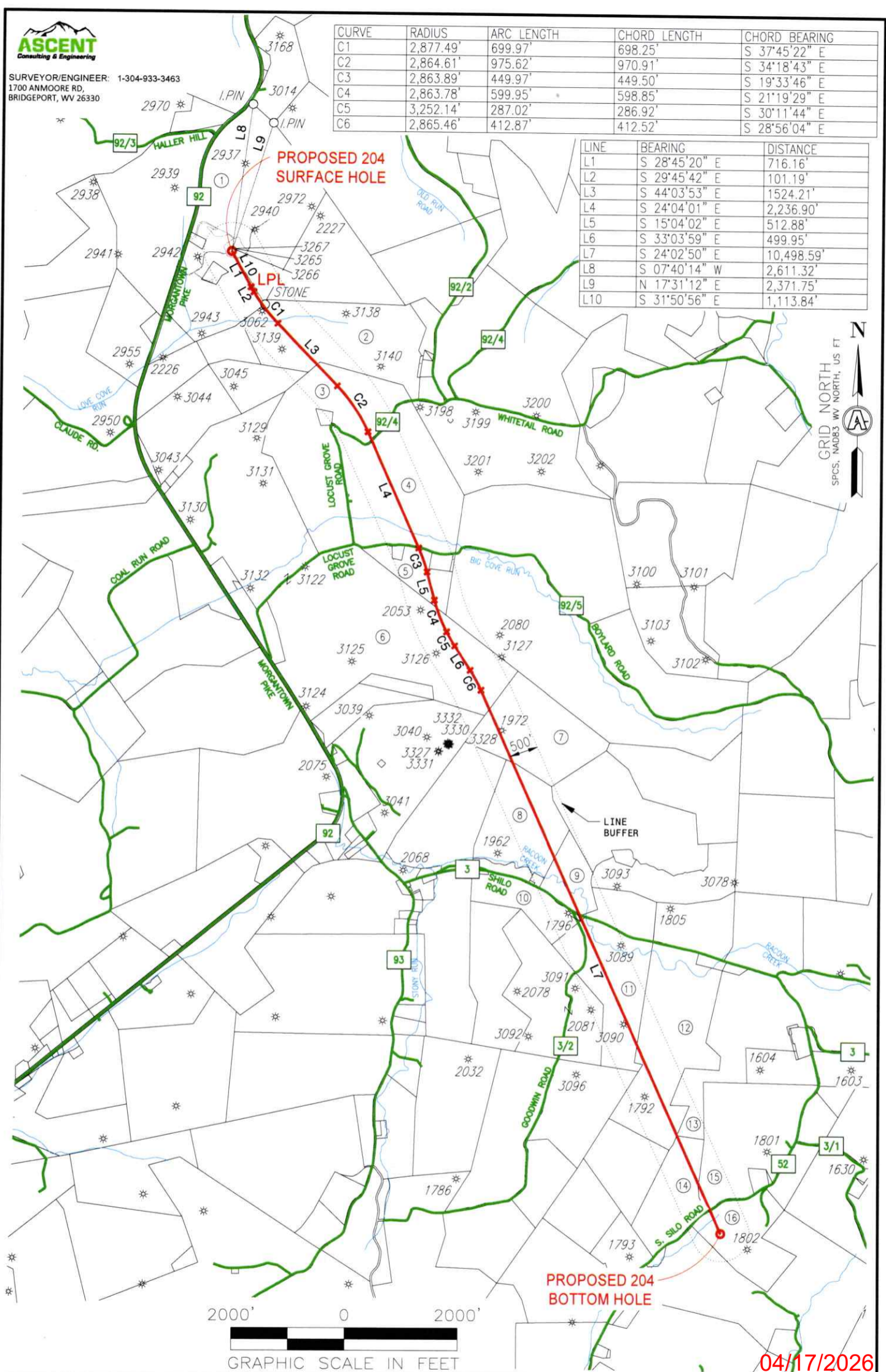
LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD EXISTING WATER WELL EXISTING SPRING	SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY 500' OFFSET LINE PROPOSED PATH	REVISIONS: <table border="1"> <tr><td>DATE:</td><td>02-26-2026</td></tr> <tr><td>FILE NO:</td><td></td></tr> <tr><td>DRAWN BY:</td><td>TMF</td></tr> <tr><td>SCALE:</td><td>1" = 2500'</td></tr> <tr><td>DRAWING NO:</td><td>3955</td></tr> <tr><td>WELL LOCATION PLAT:</td><td>1</td></tr> </table>	DATE:	02-26-2026	FILE NO:		DRAWN BY:	TMF	SCALE:	1" = 2500'	DRAWING NO:	3955	WELL LOCATION PLAT:	1
DATE:	02-26-2026													
FILE NO:														
DRAWN BY:	TMF													
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DRAWING NO:	3955													
WELL LOCATION PLAT:	1													



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

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	2,877.49'	699.97'	698.25'	S 37°45'22" E
C2	2,864.61'	975.62'	970.91'	S 34°18'43" E
C3	2,863.89'	449.97'	449.50'	S 19°33'46" E
C4	2,863.78'	599.95'	598.85'	S 21°19'29" E
C5	3,252.14'	287.02'	286.92'	S 30°11'44" E
C6	2,865.46'	412.87'	412.52'	S 28°56'04" E

LINE	BEARING	DISTANCE
L1	S 28°45'20" E	716.16'
L2	S 29°45'42" E	101.19'
L3	S 44°03'53" E	1524.21'
L4	S 24°04'01" E	2,236.90'
L5	S 15°04'02" E	512.88'
L6	S 33°03'59" E	499.95'
L7	S 24°02'50" E	10,498.59'
L8	S 07°40'14" W	2,611.32'
L9	N 17°31'12" E	2,371.75'
L10	S 31°50'56" E	1,113.84'



04/17/2026


REVISIONS: 47-001-03366	COMPANY: ARSENAL RESOURCES	DATE: 02-26-2026
OPERATOR'S: MACKEY WOLFE	WELL #: 204	DRAWN BY: TMF
DISTRICT: COVE	COUNTY: BARBOUR	SCALE: N/A
	STATE: WV	DRAWING NO: 3955
		WELL LOCATION PLAT



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

TAG	PARCEL	SURFACE OWNER / ROAD / RIVER	ACREAGE
1	3-7-21	MARGARET MACKEY L/E & JOHN M WOLFE	226.815
2	3-11-13.1	JOHN MOORE WOLFE	79.090
3	3-11-17.5	WILLARD R & L GENELL MCVICKER & WILLARD B & JOHN K MCVICKER	86.820
ROAD	N/A	LOCUST GROVE ROAD	N/A
4	3-11-17	MARILYN K NEWLON IRREV TRUST	94.260
ROAD	N/A	BOYLARD ROAD	N/A
5	3-11-17.8	ROY J & HUNTER K PAYNE (JTROS)	18.37
6	3-11-18	TIMOTHY R. LEWIS	293.78
7	3-10-5	TB & ALICIA CUTRIGHT TRUSTEES	62.000
8	3-15-1.1	TB AND ALICIA CUTRIGHT LIVING TRUST	61.000
9	3-15-8	HARLEY M & MEGAN R PLUM	24.125
ROAD	N/A	SHILO ROAD	N/A
10	3-15-7.2	JAMES & CRYSTAL D TURNER	29.430
11	3-15-7	BARBARA GODWIN	39.580
12	3-15-12	ARTHUR RAY SINES	85.53
13	3-15-21	JARED M BEESON	91.93
14	3-15-15.7	ROBERT W II & JARED M & NICHOLAS G BEESON	71.95
15	3-15-15	ALAN J & M ELAINE GRAY	32.26
ROAD	N/A	SOUTH SHILO ROAD	N/A
16	3-15-15.4	MICHAEL L BOLYARD	37.78

04/17/2026

REVISIONS: 47-001-03366	COMPANY: 		
	OPERATOR'S: MACKEY WOLFE		DATE: 02-26-2026
	WELL #: 204		DRAWN BY: TMF
	DISTRICT: COVE	COUNTY: BARBOUR	STATE: WV
			SCALE: N/A
			DRAWING NO: 3955
			WELL LOCATION PLAT

100198366

WW-6A1
(5/13)

Operator's Well No. Mackey Wolfe 204

**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**

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: Arsenal Resources
 By: Emily Glick
 Its: Geologist & Permitting Specialist

Attachment to WW-6A1, Mackey Wolfe 204

Tag, Parcel, Lease	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book/Page	Royalty	Acreage
1 47-001-3-7-21 (00000131)	MARGARET MACKEY LIFE ESTATE	FALCON PARTNERS	145/391	12.5+%	229.135
	FALCON PARTNERS	MAR KEY LLC	157/92		
1 47-001-3-7-21 (00000132)	JOHN M WOLFE REMAINDERMAN	FALCON PARTNERS	145/402	12.5+%	229.135
	FALCON PARTNERS	MAR KEY LLC	157/92		
2 47-001-3-11-13.1 (00000030)	ENZO CARDELLI ET UX	FALCON PARTNERS	146/137	12.5+%	58.5
	FALCON PARTNERS	MAR KEY LLC	157/92		
2 47-001-3-11-13.1 (00000007)	BIGELOW LODGE #52 AF & AM	FALCON PARTNERS	146/113	12.5+%	95.84
	FALCON PARTNERS	MAR KEY LLC	157/92		
3 47-001-3-11-17.5 (00000929)	WILLARD R MCVICKER ET UX LIFE EST	RP LAND COMPANY LLC	163/166	12.5+%	88.79
	RP LAND COMPANY LLC	MAR KEY LLC	163/248		
3 47-001-3-11-17.5 (00000933)	WILLARD B MCVICKER ET AL REMAINDER	RP LAND COMPANY LLC	164/67	12.5+%	86.82
	RP LAND COMPANY LLC	MAR KEY LLC	157/100 163/248		

4700103366

ROAD		LOCUST GROVE ROAD			
4	JERRY NEWLON ET UX	FALCON PARTNERS	144/632	12.5+%	94.28
47-001-3-11-17 (00000151)					
	FALCON PARTNERS	MAR KEY LLC	157/92		
ROAD		BOYLARD ROAD			
5	RICHARD P & MANDY L MORRIS	MAR KEY LLC	186/75	12.5+%	22.5
47-001-3-11-17.8 (00009567)					
6	TIMOTHY R LEWIS	FALCON PARTNERS	151/616	12.5+%	319.86
47-001-3-11-18 (00000129)					
	FALCON PARTNERS	MAR KEY LLC	157/92		
	FALCON PARTNERS	MAR KEY LLC	157/92		
7	DORSEY AND ROSALEA CLAYTON	COMMONWEALTH ENERGY INC	137/440	12.5+%	62
47-001-3-10-5 (00002149)					
	COMMONWEALTH ENERGY INC	MAR KEY LLC	161/248		
8	DORSEY CLAYTON ET UX	COMMONWEALTH ENERGY INC	137/431	12.5+%	61
47-001-3-15-1.1 (00002150)					
	COMMONWEALTH ENERGY INC	MAR KEY LLC	161/248		
9	HARLEY M PLUM & MEGAN R PLUM	MAR KEY LLC	185/585	12.5+%	24.125
47-001-3-15-8 (00009472)					
ROAD		SHILO ROAD			
10	Mollie Wilfong	COMMONWEALTH ENERGY INC	136/443	12.5+%	29.43
47-001-3-15-7.2 (00002151)					
	COMMONWEALTH ENERGY INC	MAR KEY LLC	161/248		

4700103366

✓ 11 47-001-3-15-7 (00009469)	BARBARA GODWIN	MAR KEY LLC	185/581	12.5+%	39.58
✓ 12 47-001-3-15-12 (00002143)	WILLIAM T HULL	COMMONWEALTH ENERGY INC	136/446	12.5+%	86.7
	COMMONWEALTH ENERGY INC	MAR KEY LLC	161/248 166/468		
✓ 13 47-001-3-15-21 (00009473)	JARED BEESON	MAR KEY LLC	185/587	12.5+%	91.93
✓ 14 47-001-3-15-15.7 (00009823)	ROBERT W BEESON II ET AL	MAR KEY LLC	186/217	12.5+%	71.952
✓ 15 47-001-3-15-15 (00002155)	ALAN GRAY & MARGARET E GRAY	COMMONWEALTH ENERGY INC	136/398	12.5+%	32.257
	COMMONWEALTH ENERGY INC	MAR KEY LLC	161/248		
✓ ROAD	SOUTH SHILO ROAD				
16 47-001-3-15-15.4 (00002162)	MICHAEL L. BOLYARD	COMMONWEALTH ENERGY INC	137/452	12.5+%	37.777
	COMMONWEALTH ENERGY INC	MAR KEY LLC	161/248		

4700103366

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]

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

4700 103366



People Powered. Asset Strong.

March 4, 2026

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

RE: Ownership of Roadways; Mackey Wolfe 204

Dear Mr. Harmon:

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

04/17/2026

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: The Barbour Democrat

Public Notice Date: 02/25/2026 and 03/04/2026

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:** Mackey Wolfe 204 and 211

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

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u>	County:	<u>Barbour</u>
District:	<u>Cove</u>	Quadrangle:	<u>Thornton</u>
UTM Coordinate NAD83 Northing:	<u>4345703.77, 4345706.03</u>		
UTM coordinate NAD83 Easting:	<u>596045.11, 596049.08</u>		
Watershed:	<u>Sandy Creek</u>		

RECEIVED
Office of Oil and Gas
MAR 11 2026
WV Department of
Environmental Protection

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

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

Reviewing Applications:

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

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

04/17/2026

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

Date of Notice Certification: 03/02/2026

API No. 47- 001
Operator's Well No. Mackey Wolfe 204
Well Pad Name: Mackey Wolfe

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>596,058.340</u>
County: <u>Barbour</u>	Northing: <u>4,345,711.286</u>
District: <u>Cove</u>	Public Road Access: <u>92</u>
Quadrangle: <u>Thornton</u>	Generally used farm name: <u>Mackey-Wolfe</u>
Watershed: <u>Sandy Creek</u>	

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

<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: 40px;"><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>MAR 11 2026</p> <p>OOG OFFICE USE ONLY</p> <p>WV DEPARTMENT OF ENVIRONMENTAL PROTECTION</p> <p><input checked="" 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>
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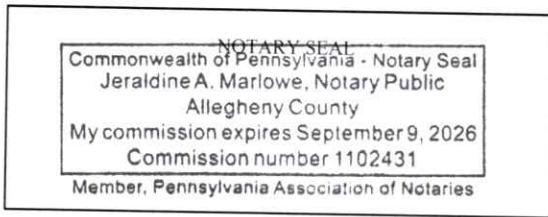
Required Attachments:

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.

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



Subscribed and sworn before me this 2nd day of March, 2026
Jeraldine A Marlowe Notary Public
 My Commission Expires 9/9/26

Oil and Gas Privacy Notice:

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

RECEIVED
 Office of Oil and Gas
 MAR 11 2026
 WV Department of
 Environmental Protection

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

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

Date of Notice: 3/2/2026 **Date Permit Application Filed:** 3/4/26

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: Margaret J Mackey
Address: 3416 W Van Owen St
Springfield, MO 65810-1141

Name: John Moore Wolfe
Address: 6 Claude Rd
Moatsville, WV 26405-8248

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

Name: Margaret J Mackey
Address: 3416 W Van Owen St
Springfield, MO 65810-1141

Name: John Moore Wolfe
Address: 6 Claude Rd
Moatsville, WV 26405-8248

SURFACE OWNER(s) (Impoundments or Pits)
Name:
Address:

COAL OWNER OR LESSEE
Name: Shiloh Development
Address: 7 Maple Lake
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
MAR 11 2026
WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A
(8-13)

000103366
API NO. 47-001 -
OPERATOR WELL NO. Mackey Wolfe 204
Well Pad Name: Mackey Wolfe

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

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.**

MAR 11 2026
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION

04/17/2026

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)

4700103366

API NO. 47- 001 - _____
OPERATOR WELL NO. Mackey Wolfe 204
Well Pad Name: Mackey Wolfe

Notice is hereby given by:

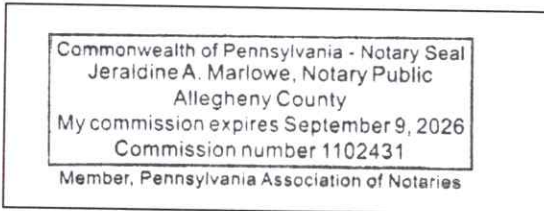
Well Operator: Arsenal Resources
Telephone: 724-940-1100
Email: eglick@arsenalresources.com

Eugene Glick

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 4th day of March 2026
Jeraldine A Marlowe Notary Public
My Commission Expires 9/9/26

RECEIVED
Office of Oil and Gas

MAR 11 2026

WV Department of
Environmental Protection

04/17/2026

**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: 02/27/2026 **Date of Planned Entry:** 03/09/2026

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: Margaret J Mackey
 Address: 3416 W Van Owen St
Springfield, MO 65810-1141

Name: John Moore Wolfe
 Address: 6 Claude Rd
Moatsville, WV 26405-8248

Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: Shiloh Development
 Address: 7 Maple Lake
Bridgeport, WV 26330

MINERAL OWNER(s)

Name: Same as surface owners
 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: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.255413, -79.886676</u>
County: <u>Barbour</u>	Public Road Access: <u>92</u>
District: <u>Cove</u>	Watershed: <u>Sandy Creek</u>
Quadrangle: <u>Thornton</u>	Generally used farm name: <u>Mackey-Wolfe</u>

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: <u>Arsenal Resources</u>	Address: <u>6031 Wallace Road Ext. Suite 200</u>
Telephone: <u>724-940-1100</u>	<u>Wexford, PA 15090</u>
Email: <u>eglick@arsenalresources.com</u>	Facsimile: <u>800-428-0981</u>

Oil and Gas Privacy Notice:

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

WW-6A5
(1/12)

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: 03/02/2026 **Date Permit Application Filed:** 03/04/2026

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED 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: Margaret J Mackey
Address: 3416 W Van Owen St
Springfield, MO 65810-1141

Name: John Moore Wolfe
Address: 6 Claude Rd
Moatsville, WV 26405-8248

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:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>596,058,340</u>
County:	<u>Barbour</u>		Northing:	<u>4,345,711,286</u>
District:	<u>Cove</u>	Public Road Access:		<u>92</u>
Quadrangle:	<u>Thornton</u>	Generally used farm name:		<u>Mackey-Wolfe</u>
Watershed:	<u>Sandy Creek</u>			

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.

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

04/17/2026

1-3268



Catharine Wolfe
RR 2 Box 57
Moatsville, WV 26405

WAIVER OF WELL LOCATION WITHIN 625 FEET OF DWELLING

I give my express consent for an oil and gas well(s) to be drilled within 625 feet of the existing dwelling or barn on the 2.32 acre tract in Cove District, Barbour County, identified as Tax Map 7, Parcel 21.3. The well(s) may be drilled at the location marked on the enclosed map, identified as Exhibit A.

Printed Name: Catharine M. Wolfe

Signed Name: *Catharine M. Wolfe*

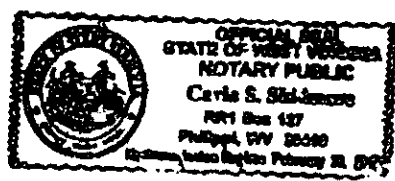
STATE OF West Virginia
COUNTY OF Barbour

On this the 25th day of January, 2012, before me, the undersigned officer personally appeared Catharine M Wolfe, satisfactorily proven to me to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

[Signature]
Notary Public

(SEAL)
My Commission Expires:





**WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION**

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

Michael J. DeMers
Deputy Secretary of Transportation

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

February 20, 2026

Jason Harmon, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

**Subject: DOH Permit for the Mackey-Wolfe Well Pad, Barbour County
Mackey-Wolfe 204 Well Site Mackey-Wolfe 211 Well Site**

Dear Mr. Harmon,

This well site will be accessed from a DOH permit #07-2011-0547 which has been issued to Arsenal Resources, LLC for access to the State Road for a well site located off Barbour County Route WV 92 MP 23.96.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

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

Lacy D. Pratt
Central Office O&G Coordinator

Cc: Emily Glick
Arsenal Resources, LLC
OM, D-7
File

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

RECEIVED
Office of Oil and Gas
MAR 11 2026
WV Department of
Environmental Protection

OPERATOR: Arsenal Resources

WELL NO: 204

PAD NAME: Mackey Wolfe

REVIEWED BY: Emily Glick

SIGNATURE: Emily Glick

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

Wetland and Perennial Stream Waiver Request – Attachment A

Arsenal Resources, LLC
Mackey Wolfe Well Pad Expansion
Barbour 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

Channels will be used to convey stormwater runoff in a stable manner from the well pad site construction area. The channels 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 well 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 Plans 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
Mackey Wolfe Well Pad Expansion
Barbour 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 expansion.
 - 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/COMPOST FILTER SOCK

Smart fence and Compost Filter Sock 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
Mackey Wolfe Well Pad Expansion
Barbour 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.

700103366

11/3/14
Wetland and Perennial Stream Waiver Request

API Number: _____
Operator's Well Number: 204

Well Operator: Arsenal Resources, LLC

Well Number: 204

Well Pad Name: Mackey Wolfe

County, District, Quadrangle of Well Location: Barbour County, Cove District, Thornton Quadrangle

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.

04/17/2026

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: 204

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 Mackey Wolfe Well Pad Expansion is located North of Kasson in Barbour County, West Virginia. Approximate coordinates of the center of the proposed well pad are 39.255413 N and 79.889527 W. The wetland within 100 feet of the LOD is as follows:

Wetland 1: Palustrine Emergent (PEM), 0.021 acres (AC)

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 Mackey Wolfe Well Pad Expansion 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 new well head locations have been strategically placed to expand from the existing well pad while maintaining a safe distance from existing and producing well heads, therefore, the well head locations cannot be moved. The current pad dimensions are necessary to safely setup the drilling rig. The current entrance is already an approved entrance through the WVDOH. The Limits of disturbance is approximately 7 feet at its closet to Wetland 1. The LOD in this area provides the contractor room to perform necessary upgrades to the access road.

04/17/2026

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: 204

- 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.



ADDITIONAL REMARKS SCHEDULE

AGENCY IMA, Inc - Pittsburgh		NAMED INSURED Arsenal Resources Development Holdings 1, LLC 6031 Wallace Road Ext Ste 101 Wexford PA 15090-3430	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

Umbrella Liability Carrier Syndicates: Policy #USUMB1513824
 Argenta (23.8095%)
 MS Amlin 2001 (14.2857%)
 AXIS 1686 (7.1429%)
 Westfield 1200 (4.7619%)
 Convex (15.0000%)
 Scottsdale Insurance Company (35.0000%)

3rd Layer Excess Liability: Insurer: Underwriters at Lloyd's, London; Policy #GSRWEL17052183; Policy Term: 7/15/2025 - 7/15/2026; NAIC #15792; Limit \$5,000,000.

Leased and Rented Equipment: Insurer: The Cincinnati Insurance Company; Policy #0622598; Policy Term: 7/15/2025 - 7/15/2026; NAIC #10677; Limit \$50,000; Deductible \$1,000.

Certificate Holder and all other parties required by the contract are included as Additional Insured including Ongoing and Completed Operations on the General Liability Policy, if required by written contract or agreement, subject to the policy terms and conditions.

Certificate Holder and all other parties required by the contract are included as Additional Insured on the Automobile Liability and Umbrella Liability Policy, if required by written contract or agreement, subject to the policy terms and conditions.

This Insurance is Primary & Non-Contributory on the General Liability and Automobile Liability Policy, if required by written contract or agreement, subject to the policy terms and conditions.

A Waiver of Subrogation is provided in favor of Certificate Holder and all other parties required by the contract on the General Liability, Automobile Liability, Umbrella Liability and Worker's Compensation Policy, if required by written contract or agreement, subject to the policy terms and conditions.

Umbrella Liability policy is in excess of the General Liability, Automobile Liability and Employer's Liability Policy, subject to the terms and conditions of the policy.

RE: ABOVE GROUND STORAGE TANKS.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/11/2025

7/00103300

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER IMA, Inc - Pittsburgh 316 First Avenue 3rd Floor Kittanning PA 16201	CONTACT NAME: Olivia Stossel PHONE (A/C, No, Ext): 724-803-5839 E-MAIL ADDRESS: olivia.stossel@imacorp.com		FAX (A/C, No):
	INSURER(S) AFFORDING COVERAGE		
INSURED Arsenal Resources Development Holdings 1, LLC 6031 Wallace Road Ext Ste 101 Wexford PA 15090-3430	INSURER A: The Cincinnati Insurance Company	NAIC # 10677	
	INSURER B: Rockwood Casualty Insurance Company	NAIC # 35505	
	INSURER C: Lloyd's	NAIC # 15792	
	INSURER D: Gotham Insurance Company	NAIC # 25569	
	INSURER E: Ironshore Insurance Services, LLC		
	INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** 2067992813 **REVISION NUMBER:**

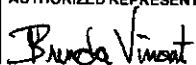
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
C	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> S&A Pollution GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y	Y	USGL1513823	7/15/2025	7/15/2026	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A	<input type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	Y	Y	EBA 0622598	7/15/2025	7/15/2026	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	Y	Y	USUMB1513824	7/15/2025	7/15/2026	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WC 707472	7/15/2025	7/15/2026	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E E D	Pollution Liability Excess Pollution Liability 2nd Layer Excess Liability			ISPILLSCBCFM005 IEELPLLCBCFN005 OX2025MEE01208	7/15/2025 7/15/2025 7/15/2025	7/15/2026 7/15/2026 7/15/2026	Ea Occur. \$1,000,000 Ea Occur. \$4,000,000 Limit \$15,000,000 Agg. \$2,000,000 Agg. \$4,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

General Liability Carrier Syndicates: Policy #USGL1513823
 Argenta (23.8095%)
 MS Amlin 2001 (14.2857%)
 AXIS 1686 (7.1429%)
 Westfield 1200 (4.7619%)
 Convex (15.0000%)
 Scottsdale Insurance Company (35.0000%)

See Attached...

CERTIFICATE HOLDER West Virginia Department of Environmental Protection 2031 Pleasant Valley Rd., Suite 1 Fairmont, W Fairmont WV 26554	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

04/17/2026

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers
having verified the person in responsible charge is registered in
West Virginia as a professional engineer for the noted firm, hereby certifies*

ASCENT CONSULTING AND ENGINEERING, LLC

C05756-00

Engineer in Responsible Charge: MICHAEL R. NESTOR - WV PE 018467

*has complied with section §30-13-17 of the West Virginia Code governing
the issuance of a Certificate of Authorization. The Board hereby notifies you of its
certification with issuance of this Certification of Authorization for the period of:*

January 1, 2026 - December 31, 2027

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.



IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA
UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

Scott E. Thomas Jr.

BOARD PRESIDENT

State of West Virginia



Certificate

I, Mac Warner, Secretary of State of the State of West Virginia, hereby certify that

an original or certified copy of an original of the Articles of Amendment to the Articles of Organization of

Arsenal Resources LLC

is filed in my office, signed and verified, as required by the provisions of West Virginia Code §31B-2-204 and conforms to law.

Therefore, I issue this

CERTIFICATE OF AMENDMENT TO THE ARTICLES OF ORGANIZATION



Given under my hand and the Great Seal of the State of West Virginia on this day of March 1, 2017

Mac Warner

Secretary of State

00103366



RLI Insurance Company
P.O. Box 3967
Peoria, IL 61612-3967
Phone: (309) 692-1000 Fax: (309) 683-1610

POWER OF ATTORNEY

RLI Insurance Company

RLB0014498

Know All Men by These Presents:

That the RLI Insurance Company, a corporation organized and existing under the laws of the State of Illinois, and authorized and licensed to do business in all states and the District of Columbia does hereby make, constitute and appoint:

Robbie Duxbury

in the City of Houston, State of Texas, as Attorney in Fact, with full power and authority hereby conferred upon him/her to sign, execute, acknowledge and deliver for and on their behalf as Surety and as their act and deed, all of the following classes of documents to-wit:

\$250,000.00

Indemnity, Surety and Undertakings that may be desired by contract, or may be given in any action or proceeding in any court of law or equity; policies indemnifying employers against loss or damage caused by the misconduct of their employees; official, bail and surety and fidelity bonds. Indemnify in all cases where indemnity may be lawfully given; and with full power and authority to execute consents and waivers to modify or change or extend any bond or document executed for this Company, and to compromise and settle any and all claims or demands made or existing against said Company.

RLI Insurance Company further certifies that the following is a true and exact copy of a Resolution adopted by the Board of Directors of RLI Insurance Company, and now in force to-wit:

"All bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or Agents who shall have authority to issue bonds, policies or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

IN WITNESS WHEREOF, RLI Insurance Company has caused these presents to be executed by its Vice President with its corporate seals affixed this 15th day of March, 2017.

ATTEST:

Cherie L. Montgomery
Cherie L. Montgomery Assistant Secretary



RLI Insurance Company
By: Barton W. Davis
Barton W. Davis Vice President

State of Illinois }
County of Peoria } SS

On this 15th day of March, 2017 before me, a Notary Public, personally appeared Barton W. Davis and Cherie L. Montgomery, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as Vice President and Assistant Secretary, respectively, of said RLI Insurance Company and acknowledged said instrument to be the voluntary act and deed of said corporation.

Jacqueline M. Bockler
Jacqueline M. Bockler Notary Public



04/17/2026

BOND RIDER NO. 1

Attaching to and forming part of Blanket Bond, Bond No. RLB0014498, executed May 29, 2012 on behalf of Mountaineer Keystone, LLC as Principal, in favor of the State of West Virginia as Obligee, issued by RLI Insurance Company as Surety, in the amount of Two Hundred Fifty Thousand and No/100 Dollars (\$250,000.00).

It is understood and agreed that effective March 15, 2017, Principal's name and address is amended to read as follows:

**Arsenal Resources LLC
6031 Wallace Road Ext., Suite 300
Wexford, PA 15090**

It is also understood and agreed that effective June 1, 2016, Surety's address is amended to read as follows:

**2925 Richmond Avenue, Suite 1600
Houston, TX 77098**

All other conditions and terms to remain as originally written or previously amended by rider.

Signed, sealed and dated this 15th day of March, 2017.

Arsenal Resources LLC

Principal

By: _____


RLI Insurance Company

Surety

By: _____


Robbie Duxbury, Attorney-in-Fact