

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

Friday, November 14, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

ARSENAL RESOURCES LLC 6031 WALLACE RD. EXT. SUITE 200

WEXFORD, PA 15090

Re:

Permit approval for Lovejoy 204

47-091-01392-00-00

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.

Jason Harmon

Operator's Well Number: Lovejoy 204

Farm Name: Rodney & Deborah A Anderson

U.S. WELL NUMBER: 47-091-01392-00-00

Horizontal 6A New Drill Date Issued: 11/14/2025

	47-091-01392
API Number:	

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.

WW-6B (04/15)

API NO. 47-091	
OPERATOR WELL	NO. Lovejoy 204
Well Pad Name:	Halley's

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

1) Well Operator:	Arsenal Re	sources		494519412	Taylor	Courthou	Grafton
				Operator ID	County	District	Quadrangle
2) Operator's Well	Number: Lo	vejoy 20)4	Well Pad	Name: Halley	r's	
3) Farm Name/Surf	ace Owner:	Anderse	on	Public Road	1 Access: CR-	13/7 (Low	Level Bridge Road)
4) Elevation, curren	t ground:	1375'	El	evation, proposed p	ost-constructio	on: 1377.4	4'
5) Well Type (a) Oth	-		Oil	Unde	rground Storag	e	
(b)I		illow	X	Deep			
6) Existing Pad: Ye			-				
7) Proposed Target Marcellus Shale,	` .		· //	ipated Thickness ar Bottom), 70', 0.5 ps	•	essure(s):	
8) Proposed Total V	ertical Dept	h: 7,87	0'				
9) Formation at Total			<i>Marcellus</i>	Shale			
10) Proposed Total	Measured D	epth: 8	3,239'				
11) Proposed Horizo	ontal Leg Le	ngth:)'				
12) Approximate Fr	esh Water S	trata Dep	oths:	38', 47', 115', 15	5', 573'		
13) Method to Deter 14) Approximate Sa			-P	Offsetting well wate	r depths (091-0	01222, 091	-01228, 091-00809)
15) Approximate Co	oal Seam De	pths: Har	lem-414.44', Low	er Freeport-724.44', Upper Kittan	ning-784.44', Middle Killan	ning-834,44', Lower	r Kittanning-864,44', Clarion-934,44'
16) Approximate De							
17) Does Proposed directly overlying or				ms Yes	No	X	
(a) If Yes, provide	Mine Info:	Name:					
		Depth:					
		Seam:	1				
		Owner	:				

MJK 10/1/2025

API NO. 47- 091

OPERATOR WELL NO. Lovejoy 204

Well Pad Name: Halley's

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 ½" 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- ¼" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig with then continue to drill an 8- ¾" hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 ½" 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): 12.3
- 22) Area to be disturbed for well pad only, less access road (acres): 3.2

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 $\frac{1}{2}$ " – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,150'; there will be no centralizers from 2,150' 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 1,850' (+/- 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 to 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 wellbore. 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, 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. Pull three stands and fill the hole until we reach the vertical section of the well.

*Note: Attach additional sheets as needed.

WW-6B (04/15) API NO. 47- 091

OPERATOR WELL NO. Lovejoy 204

Well Pad Name: Halley's

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	650	650	CTS
Coal							
Intermediate	9.625	New	J-55	40	2,000	2,000	CTS
Production	5.5	New	P-110	23	8,239	8,239	TOC @ 1,850'
Tubing							
Liners							

MgK 101/25

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

PACKERS

Kind:		
Sizes:		
Depths Set:		

	CE	EMENT 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	Used to improve rheological properties of cement
	Dispersant	
Additive #7:	Cellulose	Help with fluid loss



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)	ORDER NO.	2022-14
SECTION 11.5 AND LEGISLATIVE RULE)		
35CSR8 SECTION 9.2.h.8.,)		
RELATING TO THE CEMENTING)		
OF OIL AND GAS WELLS)		

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.
- 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.

Promoting a healthy environment.

 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

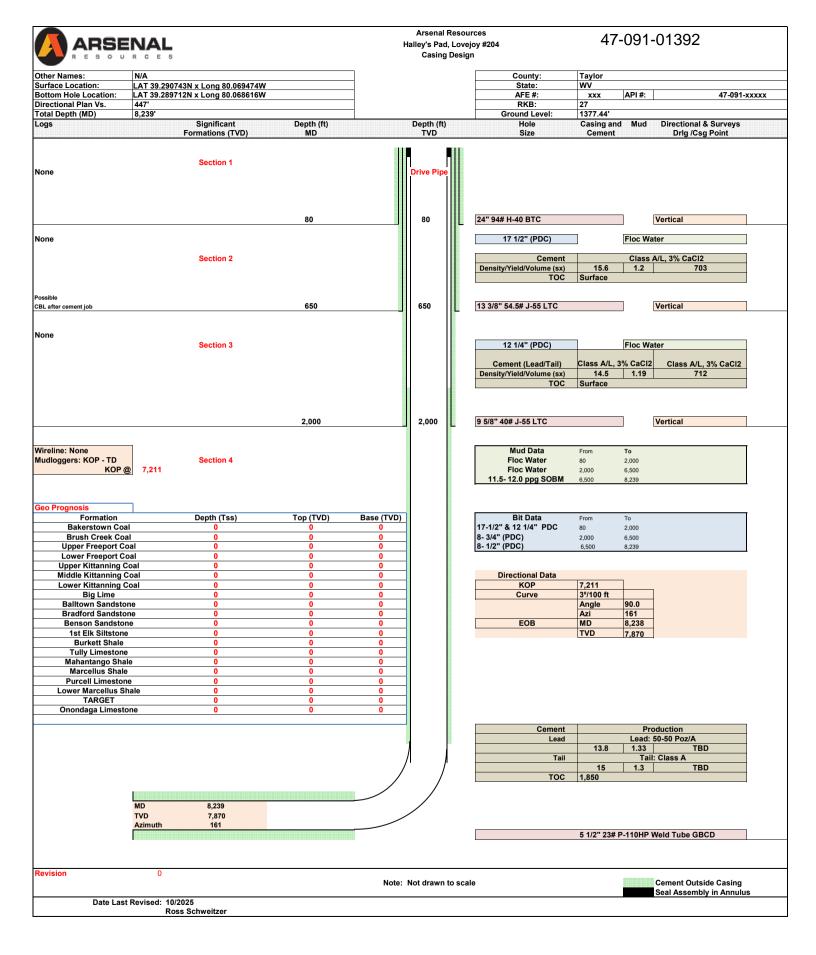
It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

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



Area of Review Report - Halley's Pad, Lovejoy 204 Lateral, Taylor County, WV

Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
Rodney J Anderson et ux 3HM	091-01214	PDC Mountaineer, LLC	Cancelled	39.291326	-80.067893	NA	NA	NA
Rodney J Anderson et ux 4HM	091-01222	Arsenal Resources LLC	Existing	39.291346	-80.067847	12,863	Marcellus	NA
Rodney J Anderson et ux 2HM	091-01223	Arsenal Resources LLC	Existing	39.291365	-80.0678	13,970	Marcellus	NA
Rodney J Anderson et ux 5HM	091-01228	Arsenal Resources LLC	Existing	39.291875	-80.067898	13,640	Marcellus	NA

WW-9 (4/16)

API Number 47 - 091	
Operator's Well No.	Lovejoy 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) Long Run	Quadrangle Grafton
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 was	
Will a synthetic liner be used in the pit?	
Proposed Disposal Method For Treated	Pit Wastes:
Reuse (at API Numbe	(UIC Permit Number) r
Will closed loop system be used? If so, describe:	Yes, the closed loop system will contain all of the drilling medium and drill cultings on location and then be taken to a landfill
	l and horizontal)? Air, freshwater, oil based, etc. Verlical Freshwater, Horizontal: Oir based mud
-If oil based, what type? Synthetic, petro	
Additives to be used in drilling medium? Bentoni	te, soap & polymer sticks, soda ash, sodium bicarbonate, defoamer, base oil, emulsifiers, lime, barite
Drill cuttings disposal method? Leave in pit, land	Ifill, removed offsite, etc. landfill
-If left in pit and plan to solidify what me	edium will be used? (cement, lime, sawdust) n/a
-Landfill or offsite name/permit number	Meadowfill Landfill/Waste Management, Westmoreland Sanitary Landfill, Apex Landfill
Permittee shall provide written notice to the Offic West Virginia solid waste facility. The notice shawhere it was properly disposed.	e of Oil and Gas of any load of drill cuttings or associated waste rejected at any ll be provided within 24 hours of rejection and the permittee shall also disclose
provisions of the permit are enforceable by law. law or regulation can lead to enforcement action. I certify under penalty of law that I ha application form and all attachments thereto are obtaining the information, I believe that the informaties for submitting false information, including Company Official Signature Company Official (Typed Name) Emily Blick Company Official Title Geologist & Permitting Specific	ecialist
Subscribed and swom before me this	day of October, 20 25
My commission expires September	Notary Public
vry commission expires Sept Chiber	9 3036 Commonwealth of Pennsylvania -

Commonwealth of Pennsylvania - Notary Seal Jeraldine A. Marlowe, Notary Public Allegheny County My commission expires September 9, 2026 Commission number 1102431

Member, Penns 17a/12 As 2012 of Notaries

Proposed Revegetation Treats	ment: Acres Disturbed 1	2.3 Prevegetat	tion pH 6.8 average
Lime 2.67	Tons/acre or to corre	ct to pH 6.4	
Fertilizer type 10-2	0-20		
Fertilizer amount_10	000	lbs/acre	
Mulch 3-4		Tons/acre	
		Seed Mixtures	
Ter	nporary	1	Permanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	129	Orchard Grass	129
Dvo	93	Rye	93
Rye	33		
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(______) Yes (_______) No

Field Reviewed?



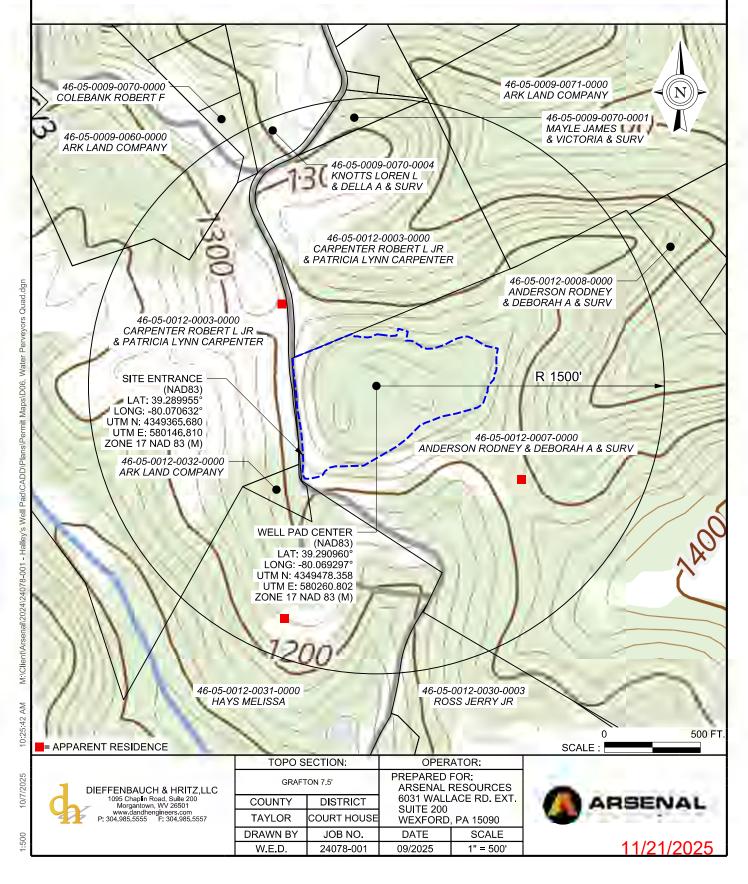
SITE SAFETY PLAN

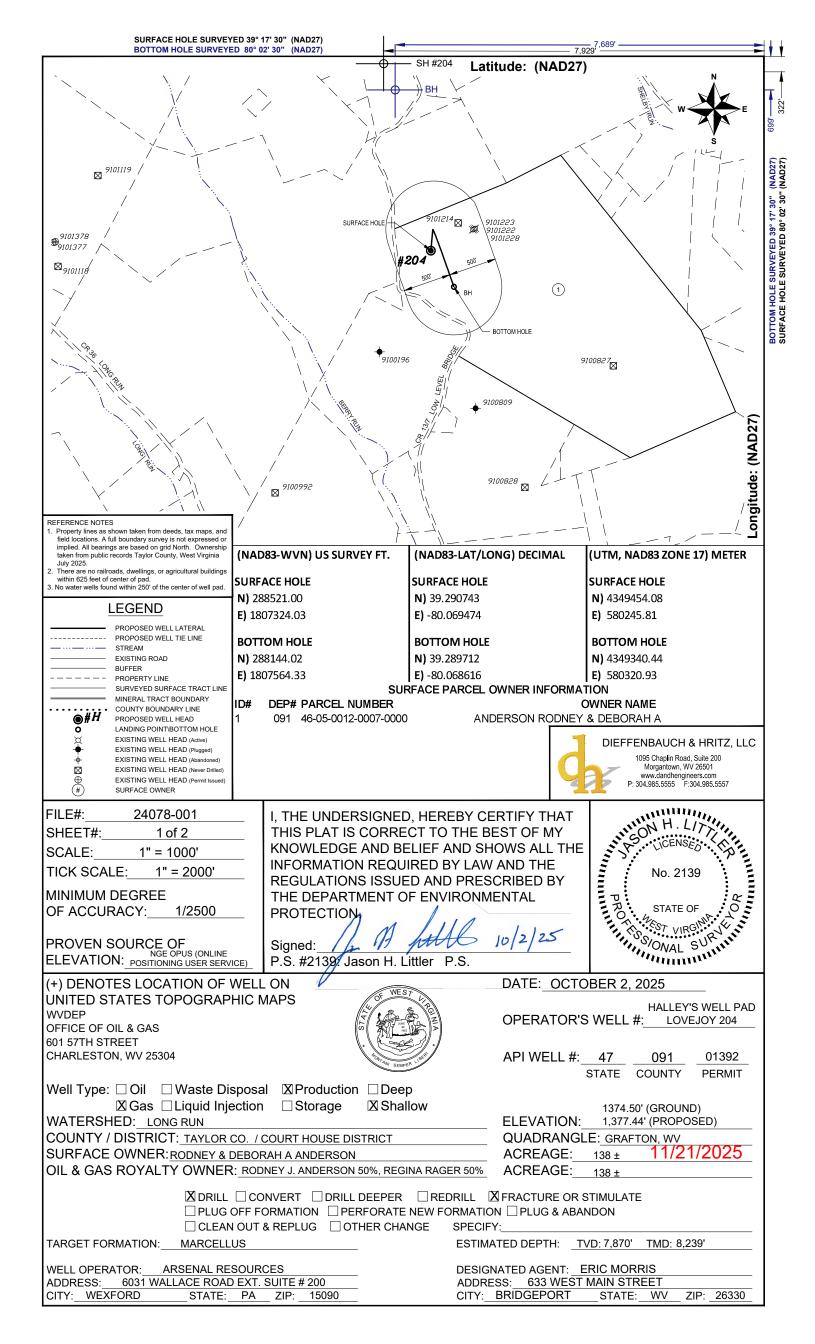
Halley's Well Pad

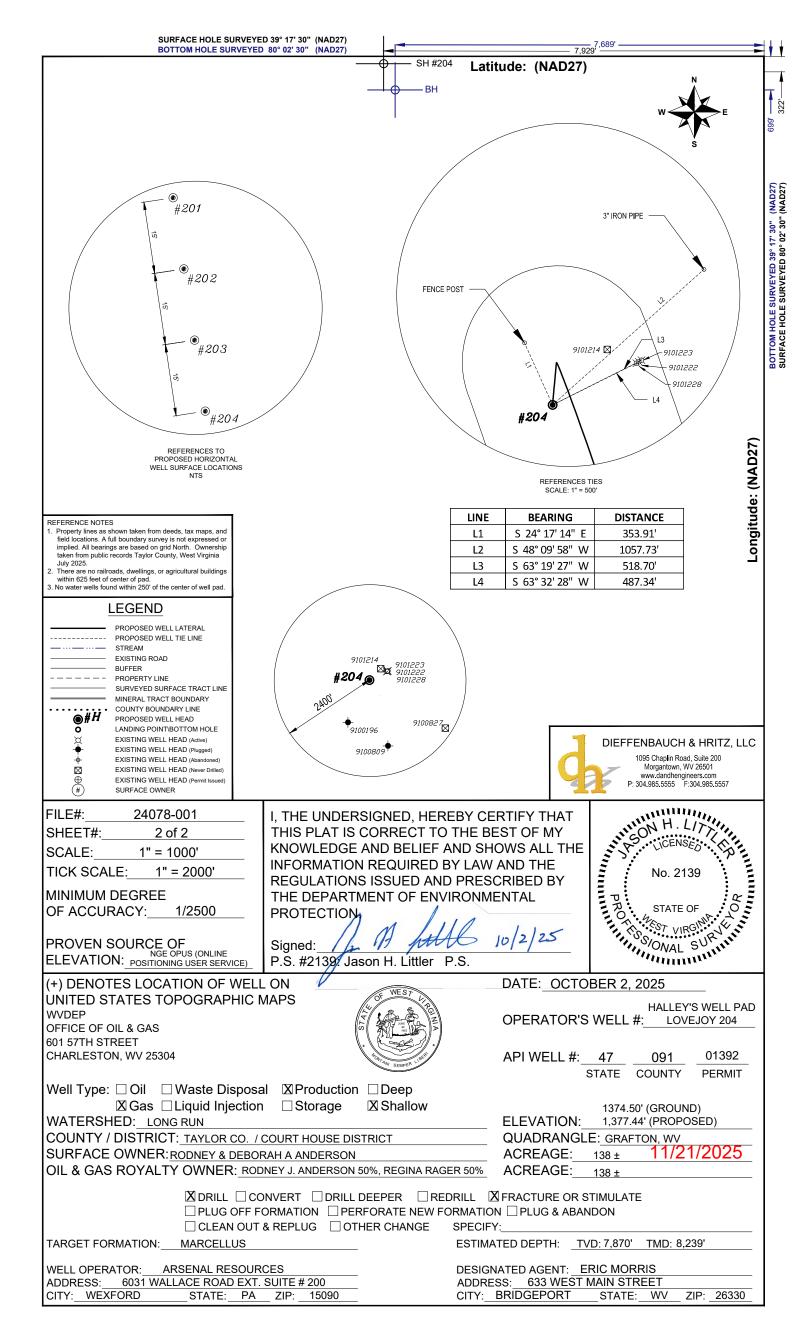
911 Address:

828 Low Level Bridge Road
Grafton, WV 26354

ARSENAL RESOURCES HALLEY'S WELL PAD POSSIBLE WATER PURVEYORS WITHIN 1500'







WW-6A1 (5/13)

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

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

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

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

See attached

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, Lovejoy 204

ID # Lease #	PARCELS	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
1 - 00004736	47-091-46-5-12-7	Rodney J Anderson et ux	Falcon Partners	12.5+%	54/115	138.13
		Falcon Partners	River Ridge Energy LLC		31/318	
		Falcon Partners	PDC Mountaineer LLC		32/362	
		PDC Mountaineer LLC	River Ridge Energy LLC		8/541	
1 - 00004737	47-091-46-5-12-7	Regina Rager	Falcon Partners	12.5+%	54/320	138.13
		Falcon Partners	River Ridge Energy LLC		31/318	
		Falcon Partners	PDC Mountaineer LLC		32/362	
		PDC Mountaineer LLC	River Ridge Energy LLC		8/541	

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 Holdings"), 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

Name: Joel E. Symonds

Title: Vice President - Land

RIVER RIDGE ENERGY, LLC

Name: Joel E. Symonds

Title: Vice President - Land

RIVER RIDGE HOLDINGS, LLC

Name: Joel E. Symonds

Title: Vice President - Land



October 7, 2025

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

RE: Ownership of Roadways; Halley's Pad - Lovejoy Well 204

Dear Mr. Martin:

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

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

Sincerely,

Jon Sheldon

Chief Operating Officer

Jon Sheldon

WW-6AC (1/12) 47-091-01392

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

Date of Notic	ce Certification: 10/07/2025	API No. 4	.7 ₋ 091 -	
			's Well No. Love	joy 204
			Name: Halley's	
Notice has b	oeen given:			
		§ 22-6A, the Operator has provided the re	equired parties v	with the Notice Forms listed
	tract of land as follows:	-		
State:	West Virginia	UTM NAD 83 Easting:	580260.802	
County:	Taylor	Nortning:	4349478.358	
District:	Courthouse	Public Road Access:	CR-13/7/Low Lev	vel Bridge Road
Quadrangle:	Grafton	Generally used farm name:	Anderson	
Watershed:	Long Run			
of giving the requirements Virginia Code	surface owner notice of entry to su of subsection (b), section sixteen o	ection sixteen of this article; (ii) that the arrivey pursuant to subsection (a), section of this article were waived in writing by ender proof of and certify to the secretarnt.	ten of this arti	cle six-a; or (iii) the notice vner; and Pursuant to West
		perator has attached proof to this Notice	Certification	
that the Ope	rator has properly served the require	d parties with the following:		
*PLEASE CHE	ECK ALL THAT APPLY			OOG OFFICE USE ONLY
T EEZ KOE CITI	SCR ALL IIIMI AITEI			UNLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECASEISMIC ACTIVITY WAS CONDUCTION.		RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or \square NO PLAT SURVEY WAS Ω	CONDUCTED	☐ RECEIVED
□ 3. NO	FICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECANOTICE OF ENTRY FOR PLAT SUR WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	ACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PUE	BLIC NOTICE			☐ RECEIVED

Required Attachments:

■ 6. NOTICE OF APPLICATION

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.

☐ RECEIVED

WW-6AC (1/12)

Certification of Notice is hereby given:

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

Well Operator: Arsenal Resources

By: Its: Emily Glick

Geologist & Permitting Specialist

Telephone: 724-940-1100

Address: 6031 Wallace Road Ext., Suite 200

Wexford, PA 15090

Facsimile: 800-428-0981

Email: eglick

eglick@arsenalresources.com

Commonwealth of Pennsylvania - Notary Seal Jeraldine A. Marlowe, Notary Public

Allegheny County

My commission expires September 9, 2026 Commission number 1102431

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

day of October 2025

Notary Public

My Commission Expires

2026

Oil and Gas Privacy Notice:

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

WW-6A (9-13)

API NO. 47- 091

47-091-01392

OPERATOR WELL NO. Lovejoy 204

Well Pad Name: Halley's

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

Notice Time Requirement: notice shall be provided no	o later than the filing date of permit application.
Date of Notice: 10/07/25 Date Permit Application F Notice of:	iled:
	OF APPROVAL FOR THE SON OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code §	22-6A-10(b)
☐ PERSONAL ☐ REGISTERED ☑	METHOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL	RECEIPT OR SIGNATURE CONFIRMATION
sediment control plan required by section seven of this art the surface of the tract on which the well is or is proposed be also proposed being developed by the proposed we described in the erosion and sediment control plan submit operator or lessee, in the event the tract of land on which the more coal seams; (4) The owners of record of the surface of well work, if the surface tract is to be used for the placement of the surface and the surface of the well, spring or water supply source located we provide water for consumption by humans or domestic and proposed well work activity is to take place. (c)(1) If more subsection (b) of this section hold interests in the lands, the provision of this article to the contrary, notice to a lien hold provision of this article to the contrary, notice to a lien hold.	a receipt or signature confirmation, copies of the application, the erosion and icle, and the well plat to each of the following persons: (1) The owners of record of to be located; (2) The owners of record of the surface tract or tracts overlying the ll work, if the surface tract is to be used for roads or other land disturbance as ted pursuant to subsection (c), section seven of this article; (3) The coal owner, he well proposed to be drilled is located [sic] is known to be underlain by one or tract or tracts overlying the oil and gas leasehold being developed by the proposed ent, construction, enlargement, alteration, repair, removal or abandonment of any cicle; (5) Any surface owner or water purveyor who is known to the applicant to within one thousand five hundred feet of the center of the well pad which is used to smals; and (6) The operator of any natural gas storage field within which the enthan three tenants in common or other co-owners of interests described in the eapplicant may serve the documents required upon the person described in the osection eight, article one, chapter eleven-a of this code. (2) Notwithstanding any der is not notice to a landowner, unless the lien holder is the landowner. W. Va. hall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any ter testing as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Pla	n Notice Well Plat Notice is hereby provided to:
SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE
Name: Rodney & Deborah A Anderson Address: 580 Low Level Bridge Rd	Name: See Attached
Grafton, WV 26354-7672	Address:
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbation	nce)
Name: Rodney & Deborah A Anderson	☑ SURFACE OWNER OF WATER WELL
Address: 580 Low Level Bridge Rd Grafton, WV 26354-7672	AND/OR WATER PURVEYOR(s)
	Name: See Attached
Name:Address:	Address:
Address:	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

47-091-01392

OPERATOR WELL NO. Lovejoy 204
Well Pad Name: Halley's

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

11/21/2025

WW-6A (8-13)

API NO. 47-091

47-091-01392 OPERATOR WELL NO. Lovejoy 204

Well Pad Name: Halley's

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.

WW-6A (8-13)

API NO. 47-091

OPERATOR WELL NO. Lovejoy 204

47-091-01392

Well Pad Name: Halley's

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)

API NO. 47- 091 -

OPERATOR WELL NO. Lovejoy 204

Well Pad Name: Halley's

Notice is hereby given by:

Well Operator: Arsenal Resources
Telephone: 724-940-1100

Email: eglick@arsenalresources.com

Address: 6031 Wallace Road Ext, Suite 200

Wexford, PA 15090

Facsimile:

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.

Emil Hek

Commonwealth of Pennsylvania - Notary Seal Jeraldine A. Marlowe, Notary Public Allegheny County My commission expires September 9, 2026 Commission number 1102431

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

day of October 20

My Commission Expires

Notary Public

2020

Arsenal Resources

Halley's Well Pad (Anderson)

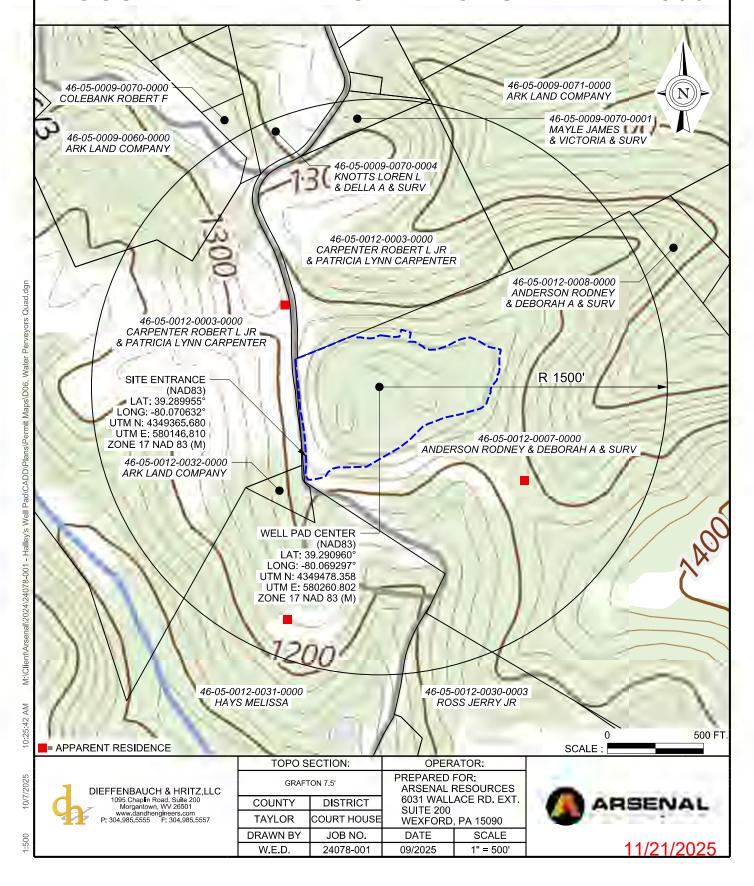
WW-6A - Notice of Application, Attachment

Coal Owner or Lessee:

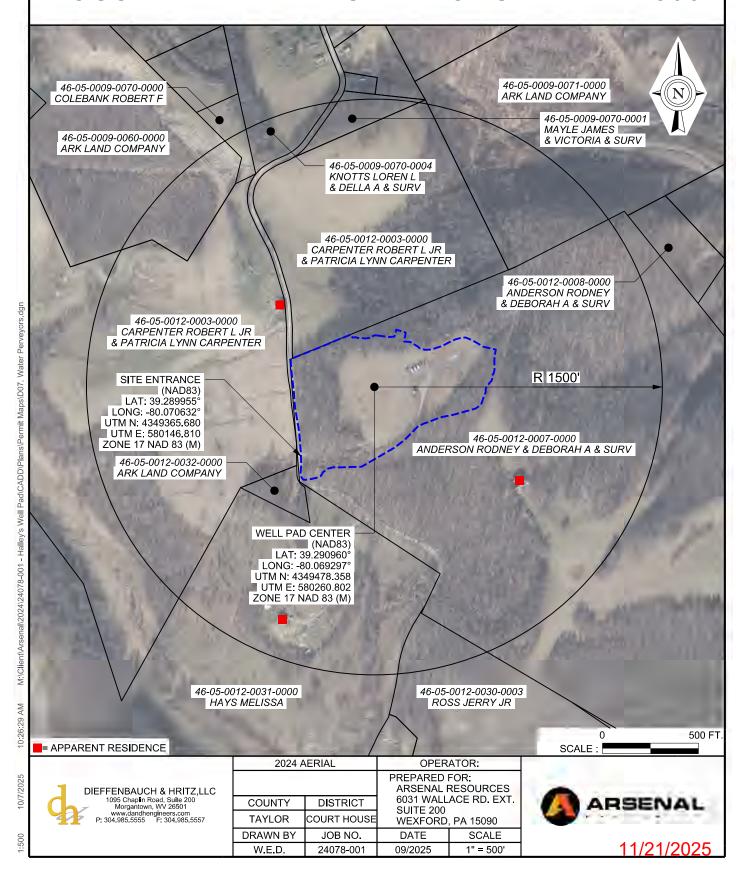
Part of Pittsburgh Coal: Starford Gas Coal Co 406 Indiana Theater Building Indiana, PA 15701

Part of Pittsburgh Coal: Rodney & Deborah A. Anderson 580 Low Level Bridge Rd Grafton, WV 26354-7672

ARSENAL RESOURCES HALLEY'S WELL PAD POSSIBLE WATER PURVEYORS WITHIN 1500'



ARSENAL RESOURCES HALLEY'S WELL PAD POSSIBLE WATER PURVEYORS WITHIN 1500'



Possible Water Purveyors within 1,500 feet

Well Pad: Halley's Well Pad

District: **Court House**

County: Taylor

WV State:

46-05-0012-0007-0000

ANDERSON RODNEY & DEBORAH

A & SURV

Physical Address:

580 LOW LEVEL BRIDGE RD GRAFTON 26354

Tax Address:

24 OLD OAK DR N, PALM COAST, FL 32137

46-05-0012-0008-0000 ANDERSON RODNEY J & DEBORAH A & SURV

Physical Address:

LOW LEVEL BRIDGE RD

Tax Address:

580 LOW LEVEL BRIDGE RD. GRAFTON, WV 26354

46-05-0012-0030-00003

ROSS JERRY JR

Physical Address:

LOW LEVEL BRIDGE RD GRAFTON 26354

Tax Address:

280 SHELBY RUN RD, GRAFTON, WV 26354

46-05-0012-0031-0000 HAYS MELISSA

Physical Address:

473 LOW LEVEL BRIDGE RD GRAFTON 26354

Tax Address:

473 LOW LEVEL BRIDGE RD, GRAFTON, WV 26354

46-05-0012-0032-0000

ARK LAND COMPANY

Physical Address:

LOW LEVEL BRIDGE RD GRAFTON

Tax Address:

ONE CITY PLACE DR STE 300. SAINT LOUIS. MO 63141

46-05-0012-0003-0000

CARPENTER PATRICIA L

Physical Address:

LOWER LEVEL BRIDGE RD GRAFTON 26354

Tax Address:

1916 WHITEFACE CT, VIRGINIA BEACH, VA 23453

46-05-0009-0060-0000

ARK LAND LLC

Physical Address:

LOW LEVEL BRIDGE RD GRAFTON 26354

Tax Address:

1 CITY PLACE DR STE 300, SAINT LOUIS, MO 63141

46-05-0009-0070-0000 COLEBANK ROBERT F

Physical Address:

LOW LEVEL BRIDGE RD GRAFTON 26354

Tax Address:

40 LONG RUN RD, FLEMINGTON, WV 26347

46-05-0009-0070-0004

KNOTTS LOREN L & DELLA A & SURV

Physical Address: 1219 LOW LEVEL BRIDGE RD

GRAFTON 26354 Tax Address:

1219 LOW LEVEL BRIDGE RD, GRAFTON, WV 26354

46-05-0009-0070-0001

MAYLE JAMES & VICTORIA & SURV

Physical Address:

SHELBY RUN

Tax Address:

5180 FORD ST, LOUISVILLE, OH 44641

46-05-0009-0071-0000 ARK LAND COMPANY

Physical Address:

3140 SHELBY RUN RD GRAFTON 26354

Tax Address:

ONE CITY PLACE DR STE 300, SAINT LOUIS, MO 63141

47-091-01392

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

Date of Notice: Date of Planned Entry: 90/20/2025 Mart of Planned Entry: 90/20/2025			quirement:	Notice shall be prov	vided at least SE	VEN (7) day	ys but no more than	n FORTY-FIVE (45) days prior to
PERSONAL REGISTERED MAIL 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 unto 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: Rodrow & Deborolt A Andreson Address: SURFACE OWNER(s) Name: See Allached Address: Address: MINERAL OWNER(s) Name: Address: Address: Name: Address: Address: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia 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: Watershed: Country: Typior Public Road Access: Watershed: Generally used farm name: Approx. Latitude & Longitude: Generally used farm name: Copies of the state Erosion and Sediment Control Manual and the statutes and rules rela		,	09/22/2025	Date of Plan	nned Entry: 09/	29/2025		
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 of 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: Some Albached Address: SOLOW Lovel Bridge Road Genation, Wy 26936 Name: Some Albached Address: MINIERAL OWNER(s) Nam	Deli	very method	l pursuant t	to West Virginia C	ode § 22-6A-10	a		
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SURFACE OWNER(s) Name: Rodney & Deborah A Anderson Address: \$90 Low Level Bridge Road Grafton, WV 26354 Name: Address: Address: MINERAL OWNER(s) Name: See Attached Address: MINERAL OWNER(s) Name: See Attached Address: Approx. Latitude & Longitude: 39.290960. 80.089297 Pusuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: 39.290960. 80.089297 County: Taylor Public Road Access: CR-1377Low Level Bridge Road District: Courthouse Watershed: Long Run Quadrangle: Grafton Generally used farm name: Anderson Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Arsenal Resources Address: 6031 Welface Road Ext Suite 200 Wexford, PA 15090	on to but r bene own and Secr enab	to the surface no more than eath such trace er of mineral Sediment Co retary, which ole the surface	tract to cond forty-five d to that has fil s underlying ntrol Manua statement sl e owner to o	duct any plat surveys ays prior to such ented a declaration pur g such tract in the coal and the statutes an hall include contact obtain copies from the	s required pursu- try to: (1) The su- resuant to section ounty tax records and rules related to information, inc	ant to this ar arface owner thirty-six, as The notice of oil and gas	ticle. Such notice s r of such tract; (2) t rticle six, chapter tv e shall include a sta s exploration and pr	hall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any attement that copies of the state Erosion roduction may be obtained from the
Name: Rodney & Deborah A Anderson Address: 580 Low Level Bridge Road Grafton, WV 26354 Name: Address:				0:				
Name: Address: MINERAL OWNER(s) Name: See Attached Address: *please attach additional forms if necessary			` '					
Name: Address: MINERAL OWNER(s) Name: See Attached Address: *please attach additional forms if necessary					_	Name: See	Attached	
Name:					_	Address.		
Name:	Nan	ne:			_			
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Quadrangle: Grafton Generally used farm name: Anderson Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Arsenal Resources Address: 6031 Wallace Road Ext Suite 200 Telephone: 724-940-1100 Wexford, PA 15090			ylor				Access:	CR-13/7/Low Level Bridge Road
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Well Operator: Arsenal Resources Address: 6031 Wallace Road Ext Suite 200 Telephone: 724-940-1100 Wexford, PA 15090	may Chai	be obtained rleston, WV	from the Sec 25304 (304-	cretary, at the WV I -926-0450). Copies	Department of Endourners of such docume	nvironmenta ents or additi	al Protection headquional information re	uarters, located at 601 57 th Street, SE,
Well Operator: Arsenal Resources Address: 6031 Wallace Road Ext Suite 200 Telephone: 724-940-1100 Wexford, PA 15090	Not	ice is hereb	v given by	7 :				
P ' '						Address:	6031 Wallace Road Ext	Suite 200
Email: eglick@arsenalresources.com Facsimile: 800-428-0981	Tele	ephone:	724-940-1100				Wexford, PA 15090	
	Ema	il:	eglick@arsenalre	esources.com		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.

11/21/2025

Arsenal Resources

Halley's Well Pad (Anderson)

WW-6A3 - Notice of Entry for Plat Survey, Attachment

Surface Owner:

Rodney & Deborah A. Anderson 580 Low Level Bridge Rd Grafton, WV 26354-7672

Mineral Owners:

Rodney & Deborah A. Anderson 580 Low Level Bridge Rd Grafton, WV 26354-7672

Regina Rager 631 Long Run Rd Flemington, WV 26347-6270

Coal Owner or Lessee:

Part of Pittsburgh Coal: Starford Gas Coal Co 406 Indiana Theater Building Indiana, PA 15701

Part of Pittsburgh Coal: Rodney & Deborah A. Anderson 580 Low Level Bridge Rd Grafton, WV 26354-7672 WW-6A5 Operator Well No. Lovejoy 204 (1/12)

STATE OF WEST VIRGINIA 47-091-01392
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time R Date of Notice	equirement: notice shall be provided no later 10/07/2025 Date Permit Applica	r than the filing date of permit ation Filed:10/08/2025	application.
Delivery meth	od pursuant to West Virginia Code § 22-6A	A-16(c)	
	ED MAIL HAN N RECEIPT REQUESTED DEI	ND LIVERY	
return receipt return required to be purely drilling of a hordanages to the	Va. Code § 22-6A-16(c), no later than the equested or hand delivery, give the surface overation. The notice required by this subsection (b), section ten of this prizontal well; and (3) A proposed surface us surface affected by oil and gas operations to the required by this section shall be given to the	wner whose land will be used for tion shall include: (1) A copy article to a surface owner who se and compensation agreement the extent the damages are com-	or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for upensable under article six-b of this chapter.
	by provided to the SURFACE OWNER(s) listed in the records of the sheriff at the time of Deborah A. Anderson		
Address: 580 Lov Grafton, WV 26354	w Level Bridge Rd	Address:	
operation on the State: County:	by given: set Virginia Code § 22-6A-16(c), notice is here the surface owner's land for the purpose of dril West Virginia Taylor Courthouse		
Quadrangle:	Grafton	Generally used farm name:	Anderson
This Notice Sh Pursuant to We to be provided horizontal well surface affected information rel	est Virginia Code § 22-6A-16(c), this notice s by W. Va. Code § 22-6A-10(b) to a surface; and (3) A proposed surface use and compend by oil and gas operations to the extent the ated to horizontal drilling may be obtained ocated at 601 57 th Street, SE, Charleston	te owner whose land will be assation agreement containing a damages are compensable und from the Secretary, at the WV	used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection
Well Operator:		Address: 6031 Wallace Road	Ext., Suite 200
Telephone: Email:	724-940-1100 eglick@arsenalresources.com	Facsimile: 800-428-0981	
	ognon@arachaireacareca.com	000-420-0301	

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Michael J. DeMers

Michael J. DeMers

Charleston, West Virginia 25305-0440 • (304) 558-0444

Deputy Secretary of Transportation

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

September 19, 2025

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

Subject: DOH Permit for the Halley's Well Pad, Taylor County

Lovejoy 201 Well Site Lovejoy 202 Well Site Lovejoy 203 Well Site Lovejoy 204 Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2025-5616 which has been issued to Arsenal Resources, LLC for access to the State Road for a well site located off Taylor County Route 13/7 SLS MP 0.77.

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

Very Truly Yours,

Lacy D. Pratt

Central Office O&G Coordinator

Lacy D. Pratt

Cc: Emily Glick

Arsenal Resources, LLC

OM, D-4

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	HCI - 7.5%	7647-01-0

OPERATOR: Arsenal F	Resources	WELL NO: Lovejoy 204	_
PAD NAME: Halley's			
REVIEWED BY: Emily G	lick	SIGNATURE: Emily Hick	

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

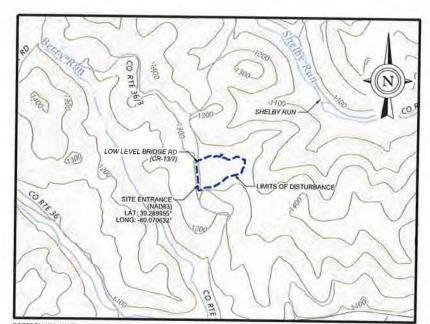
	ictions
X	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
	DEP Waiver and Permit Conditions
\checkmark	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
	DEP Waiver and Permit Conditions
\checkmark	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
\checkmark	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
\checkmark	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
\checkmark	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

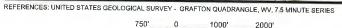
HALLEY'S WELL PAD SITE PLAN

PROPOSED WELL NO.'S 201, 202, 203, 204

TAYLOR COUNTY, WEST VIRGINIA FOR







PROJECT NO. 24078-001 **MARCH 2025**





INDEX TITLE SHEET GENERAL NOTES EXISTING SITE PLAN SOILS PLAN 5 OVERALL SITE PLAN WELL PAD WELL PAD CROSS SECTIONS TANK PAD CROSS SECTIONS 9 ACCESS ROAD 10 ACCESS ROAD PROFILE TOPSOIL/EXCESS STOCKPILE CROSS SECTIONS 12 UTILITY RELOCATION PLAN 13 - 14 CULVERT REPLACEMENT PLAN 15 - 18 CONSTRUCTION DETAILS GEOTECHNICAL DETAILS REVEGETATION PLAN

ENTRANCE PERMIT

MISS UTILITY STATEMENT

TIONE 1 #2423746025 N ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO THE START OF THE PROJECT BY THE AWARDED

ENVIRONMENTAL NOTE

A WETLAND/STREAM DELINEATION WAS PERFORMED ON DECEMBER 2024 BY DIEFFENBAUCH & HRITZ, LLC TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE), THIS DELINEATION DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OR WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE, THE OWNER/OPERATOR SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOT OANY PROPOSED IMPACTS TO WATERS OF THE U.S. INCLUDING WETLAND FILLS AND STREAM CROSSINGS

. TOPOGRAPHIC INFORMATION OBTAINED FROM DIEFFENBAUCH & IRITZ, LLC (DATUM NAD83 WVN)

2. PROPERTY LINE INFORMATION OBTAINED FROM DIEFFENBAUCH & HRITZ, LLC SURVEY AND TAX MAPPING AND SHOULD BE USED AS REFERENCE ONLY.

3. THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM MAP NUMBER \$4091C0115D DATED 9/29/2009. THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT ARE LOCATED IN ZONE (X) AS DEFINED BY THE FIRM.

4-RECEIVING STREAMS: UNNAMED TRIBUTARY TO SHELBY RUN

5. REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY GTI, LLC (PROJ. NO. 24050044MOR) DATED JANUARY 31, 2025 AND REVISED FEBRUARY 17, 2025. ADJUSTMENTS TO PROPOSED CUT AND FILL SLOPES SHOULD NOT BE MADE UNLESS REVIEWED BY GTI, LLC

6. LIMITS OF DISTURBANCE: 12.3 ACRES

TREE CLEARING AREA: 5 0 ACRES

DISTURBANCE B	REAKDOWN
LANDOWNER	TOTAL DISTURBANCE (ACRES)
46-05-0012-0007-0000 ANDERSON RODNEY & DEBORAH A & SURV	12-3

580247.946

4349505,433

39 291201 39 291205

WALGISTER TO WIRGHIP SONAL ENGIN

ENGINEER/SURVEYOR

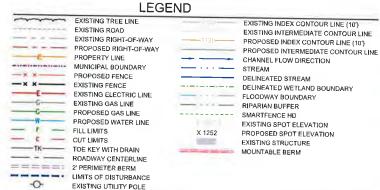
DIEFFENBAUCH & HRITZ, LLC 1095 CHAPLIN ROAD SUITE 200 MORGANTOWN, WV 26501 PHONE: (304) 985-5555

LOCATION COORDINATES

CENTER OF WELL PAD LATITUDE: 39 290960° LONGITUDE: -80 069297° (NAD83)

CENTER OF AST LATITUDE: 39.291106° LONGITUDE: -80.068100° (NADB3)

OPERATOR ARSENAL RESOURCES 6031 WALLACE ROAD EXT SUITE 200 WEXFORD, PA 15090



WELL NUMBER STATE PLANE (NAD83) N STATE PLANE (NAD83) E UTM (NAD83) METERS (N) UTM (NAD83) METERS (E) LATITUDE (NAD83) LONGITUDE (NAD83); PROPOSED ELEVATION



ENS APPROVED

MAR 2025 DATE

24078-001 PROJECT NO

ENAL

RS

4

