

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 201

47-091-01389-00-00

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.

Operator's Well Number: Lovejoy 201

Farm Name: Rodney & Deborah A Anderson

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-091-01389-00-00

Date Issued: 11/14/2025

| 47-091 | -01389 | |
|--------|--------|--|
| | | |

| 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 201 |
| 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: Ars | enal Resources | 3 | 494519412 | Taylor | Courthou | Grafton |
|---|--------------------------|-----------------|-----------------------------------|--------------------------|---------------------------|-------------------------------------|
| - | | | Operator ID | County | District | Quadrangle |
| 2) Operator's Well Nur | nber: Lovejoy 20 | 01 | Well Pa | d Name: Hal | ley's | |
| 3) Farm Name/Surface | Owner: Anders | on | Public Roa | ad Access: C | R-13/7 (Low | Level Bridge Road) |
| 4) Elevation, current gr | ound: 1375' | E | levation, proposed | post-constru | ction: 1377.4 | 4' |
| 5) Well Type (a) Gas Other | X | Oil _ | Und | erground Sto | rage | |
| (b)If G | as Shallow Horizontal | X | Deep | | | |
| 6) Existing Pad: Yes or | No No | | | | | |
| 7) Proposed Target Form Marcellus Shale, 7,81 | | | - | - | Pressure(s): | |
| 8) Proposed Total Verti | cal Depth: 7,87 | 0' | | | | |
| 9) Formation at Total V | ertical Depth: | Marcellus | s Shale | | | |
| 10) Proposed Total Mea | asured Depth: 8 | 3,939' | | | | |
| 11) Proposed Horizonta | l Leg Length: |)' | | | | u · |
| 12) Approximate Fresh | Water Strata Dep | oths: | 38', 47', 115', 15 | 55', 573' | | |
| 13) Method to Determin 14) Approximate Saltwa | | Ф шо. | Offsetting well wat | er depths (09 | 1-01222, 091 | -01228, 091-00809) |
| 15) Approximate Coal S | Seam Depths: Har | lem-414_44', Lo | wer Freeport-724_44', Upper Kitte | anning-784,44', Middle I | Killanning-834,44', Lower | Killanning-864,44', Clarion-934,44' |
| 16) Approximate Depth | to Possible Voic | l (coal m | ine, karst, other): | None expec | ted | |
| 17) Does Proposed well directly overlying or adj | | | ms Yes | N | No X | |
| (a) If Yes, provide Min | ne Info: Name: | | | | | |
| | Depth: | - | | | | |
| | Seam: | - | | | | |
| | Owner | : | | | | |

Young 120 10/1/2010

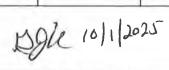
API NO. 47- 091

OPERATOR WELL NO. Lovejoy 201
Well Pad Name: Halley's

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 | 650 | 650 | CTS |
| Coal | | | | | | | |
| Intermediate | 9.625 | New | J-55 | 40 | 2,000 | 2,000 | CTS |
| Production | 5.5 | New | P-110 | 23 | 8,939 | 8,939 | TOC @ 1,850' |
| Tubing | | | 1 | - | | | |
| Liners | | | | | | | |



| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|---------------------------|---------------------|----------------------|--|---------------------|--------------------------------|
| Conductor | 24 | 36 | | | 0 | Class A/L, 3% CaCl2 | 1.2 |
| Fresh Water | 13.375 | 17.5 | 0.38 | 2,730 | 900 | Class A/L, 3% CaCl2 | 1.2 |
| Coal | | | | | | | |
| Intermediate | 9.625 | 12.25 | 0.395 | 3,950 | 1,500 | Class A/L, 3% CaCl2 | 1.29 |
| Production | 5.5 | 8.5-8.75 | 0.415 | 14,520 | 9,500 | Class A/L, Poz | 1.29/1.34 |
| Tubing | | / | | | | | |
| Liners | | | | | | 1 - 11 | |

PACKERS

WW-6B (10/14)

| API NO. 47- 091 | |
|-----------------------|-------------|
| OPERATOR WELL NO. | Lovejoy 201 |
| 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 $\frac{1}{2}$ " hole and drill to fresh water casing (Surface) to the programmed depth, Run 13- $\frac{3}{8}$ " casing and cement to surface. The rig will continue drilling a $\frac{12-\frac{1}{4}}{2}$ " intermediate hole to the programmed depth, run 9- $\frac{5}{8}$ " casing and cement to surface. The rig with then continue to drill an $\frac{8-\frac{3}{4}}{2}$ " hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 $\frac{1}{2}$ " 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): 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.

| 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 | 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.

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

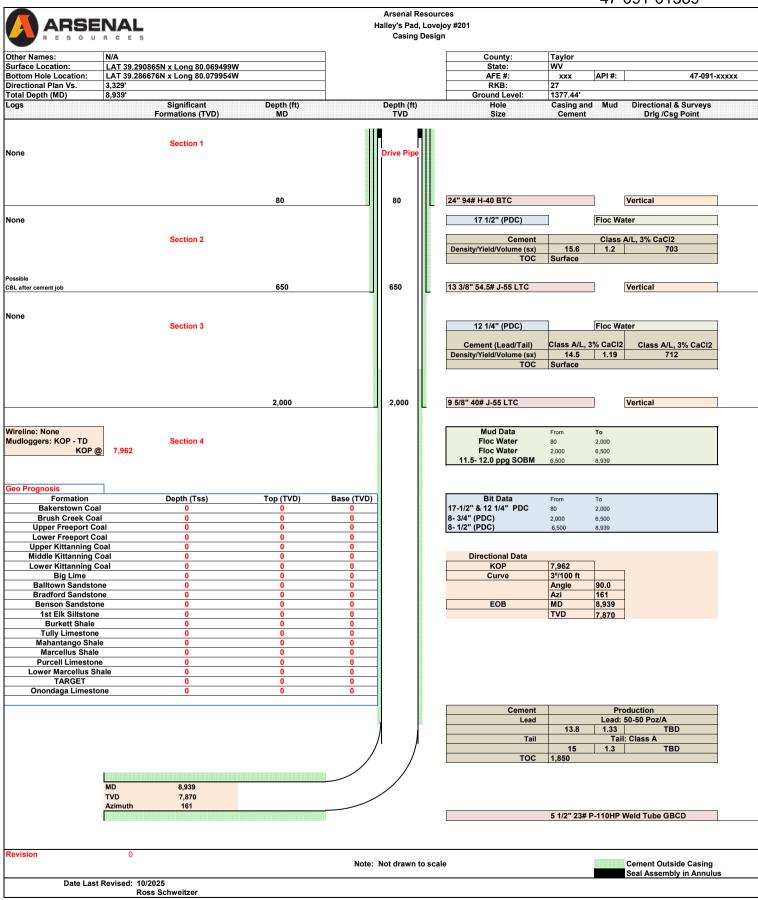
It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

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 201 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. | Loveiov 201 |

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name Arsenal Resources | OP Code 494519412 |
|---|--|
| Watershed (HUC 10) Long Run | Quadrangle Grafton |
| Do you anticipate using more than 5,000 bbls of water to co | |
| Will a pit be used? Yes No V | |
| If so, please describe anticipated pit waste: | |
| | No If so, what ml.? |
| Proposed Disposal Method For Treated Pit Wastes: | |
| Land Application Underground Injection (UIC Per | rmit Number |
| Reuse (at API Number Various |) |
| Off Site Disposal (Supply form V | WW-9 for disposal location) |
| Will closed loop system be used? If so, describe: Yes, the close | d loop system will contain all of the drilling medium and drill cultings on location and then be taken to a landfill |
| Drilling medium anticipated for this well (vertical and horiz | ontal)? Air, freshwater, oil based, etc. Verlical: Freshwater, Harizontal: Oil based mud |
| -If oil based, what type? Synthetic, petroleum, etc. | synthetic |
| Additives to be used in drilling medium? Bentonite, soap & pol | ymer sticks, soda ash, sodium bicarbonate, defoamer, base oil, emulsifiers, lime, barite |
| Drill cuttings disposal method? Leave in pit, landfill, remov | ved offsite, etc. andfill |
| -If left in pit and plan to solidify what medium will | be used? (cement, lime, sawdust)_n/a |
| -Landfill or offsite name/permit number? Meadowf | ill Landfill/Waste Management, Westmoreland Sanitary Landfill, Apex Landfill |
| Permittee shall provide written notice to the Office of Oil an West Virginia solid waste facility. The notice shall be provide where it was properly disposed. | nd Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose |
| on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action. I certify under penalty of law that I have person application form and all attachments thereto and that, be obtaining the information, I believe that the information penalties for submitting false information, including the pos | and conditions of the GENERAL WATER POLLUTION PERMIT issued a Virginia Department of Environmental Protection. I understand that the is of any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this assed on my inquiry of those individuals immediately responsible for its true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment. |
| Company Official (Typed Name) Emily Slick | |
| Company Official Title Geologist & Permitting Specialist | |
| Company Official Title | |
| Subscribed and sworn before me this 7 day of | October, 20 25 |
| qualdier AMaria | Notary Public |
| My commission expires September 9 | 2024 |
| | Commonwealth of Pennsylvania - Notary Seal Jeraldine A. Marlowe, Notary Public Allegheny County My commission expires September 9, 2026 Commission pumper 14 02431 Member, Pennsylvania Association of Notaries |

| roposed Revegetation Treatm | nent: Acres Disturbed 12.3 | Prevegetation | _{pH} 6.8 average |
|---|--|----------------------------------|---------------------------|
| Lime 2.67 | Tons/acre or to correct to pH | 6.4 | |
| Fertilizer type 10-2 | 0-20 | | |
| Fertilizer amount 10 | 00 lbs/ | acre | |
| Mulch 3-4 | Tons/ac | re | |
| | Seed. | Mixtures | |
| Ten | nporary | | manent |
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Orchard Grass | 129 | Orchard Grass | 129 |
| Rye | 93 | Rye | 93 |
| Clover | 24 | Clover | 24 |
| | | | |
| Timothy Attach: Maps(s) of road, location, pit a rovided). If water from the picreage, of the land application | | | |
| Timothy Attach: Maps(s) of road, location, pit a rovided). If water from the pi | and proposed area for land applicat t will be land applied, include dime n area. | ion (unless engineered plans inc | luding this info have |
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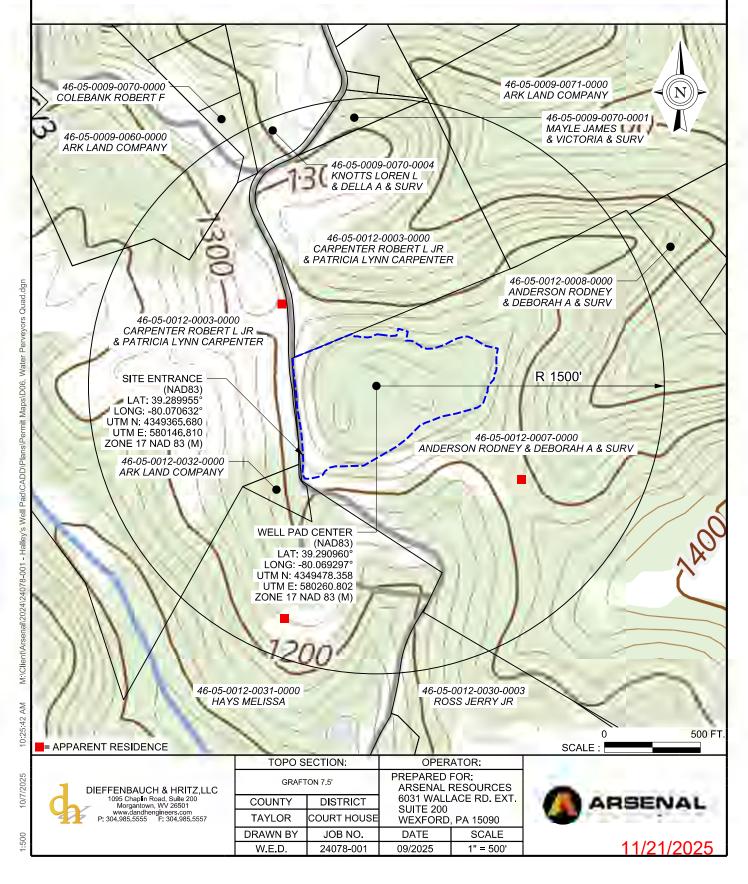
SITE SAFETY PLAN

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'



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

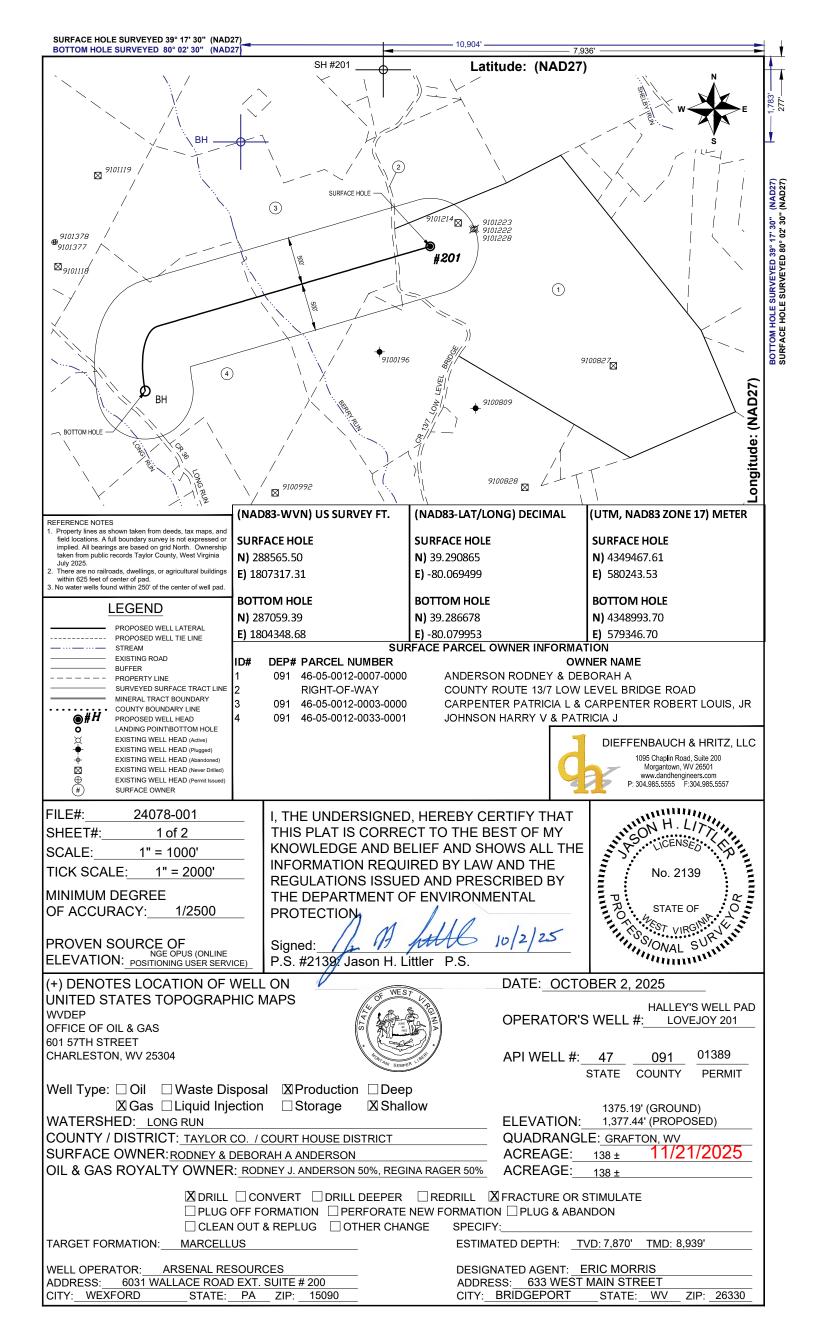
ARK LAND COMPANY

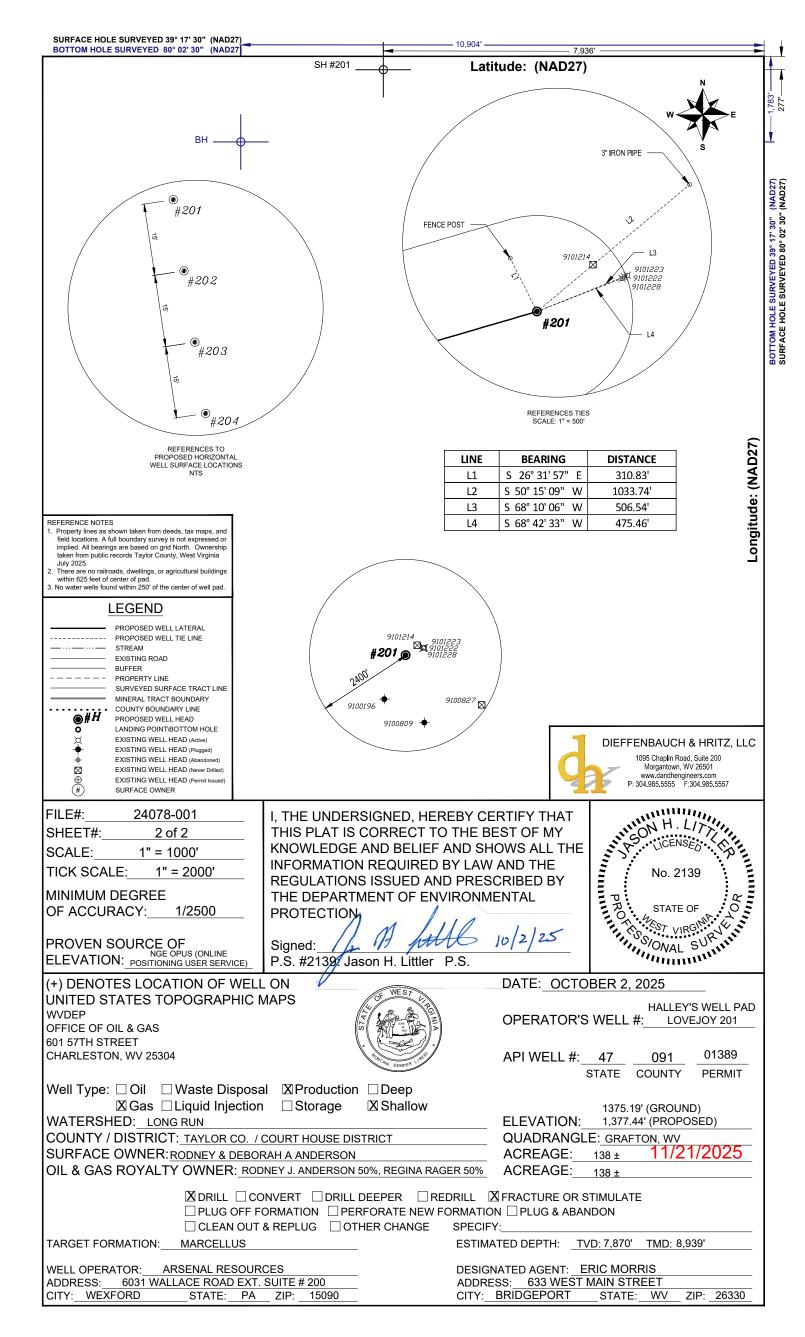
Physical Address:

3140 SHELBY RUN RD GRAFTON 26354

Tax Address:

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





WW-6A1 (5/13)

| Operator's Well No. Lov | /ejoy 201 |
|-------------------------|-----------|
|-------------------------|-----------|

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 201

| 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 | |
| 2 | ROAD | COUNTY ROUTE 13/7 LOW LEVE | L BRIDGE ROAD | | | |
| 3 - 00004457 | 47-091-46-5-12-3 | Robert L Carpenter | Petroleum Development Corp | 12.5+% | 57/543 | 117.94 |
| | | Petroleum Development Corp | PDC Mountaineer LLC | | 30/698 | |
| | | PDC Mountaineer LLC | River Ridge Energy LLC | | 8/541 | |
| 4 - 00004399 | 47-091-46-5-12-33.1 | Juanita Stout | Petroleum Development Corp | 12.5+% | 56/424 | 229.92 |
| | | Petroleum Development Corp | PDC Mountaineer LLC | | 30/698 | |
| | | 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 201

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)

47-091-01389

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 | | iov 204 |
|--|---|--|-----------------------------------|-------------------------------|
| | | - | Well No. Love | |
| Nation has l | h | well Pad | Name: Halley's | |
| | been given: | 22-6A, the Operator has provided the re | auired parties w | with the Natice Forms listed |
| | e tract of land as follows: | 22-6A, the Operator has provided the re- | quired parties w | vitil the Notice Forms listed |
| State: | West Virginia | Easting: | 580260.802 | |
| County: | Taylor | UTM NAD 83 Rasting. | 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 | | - | |
| requirements Virginia Codo of this article | of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applican | | the surface ow that the notice | vner; and Pursuant to West |
| | West Virginia Code § 22-6A, the Operator has properly served the required | erator has attached proof to this Notice (d parties with the following: | Certification | |
| 1 | ECK ALL THAT APPLY | 3. | | OOG OFFICE USE ONLY |
| ☐ 1. NO | TICE OF SEISMIC ACTIVITY or | ■ NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDUC | | RECEIVED/ NOT REQUIRED |
| ■ 2. NO | TICE OF ENTRY FOR PLAT SURV | EY or NO PLAT SURVEY WAS C | ONDUCTED | ☐ RECEIVED |
| □ 3. NO | TICE OF INTENT TO DRILL or | NOTICE NOT REQUIRED BECANOTICE OF ENTRY FOR PLAT SUR WAS CONDUCTED or | | ☐ RECEIVED/ NOT REQUIRED |
| | | ☐ WRITTEN WAIVER BY SURFA | CE OWNER | |

Required Attachments:

■ 5. PUBLIC NOTICE

■ 6. NOTICE OF APPLICATION

■ 4. NOTICE OF PLANNED OPERATION

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.

(PLEASE ATTACH)

☐ RECEIVED

RECEIVED

☐ RECEIVED

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:
By: Emily Glick Complete
Its: Geologist & Permitting Special 4

Geologist & Permitting Specialist

Telephone: 724-940-1100

Address: 6031 Wallace Road Ext., Suite 200

Wexford, PA 15090 Facsimile: 800-428-0981

Email: eglick@arsenalresources.com

NOTARY SEAL

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

Notary Public

Commission Expires September 9 2021

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 - 47-091-01389 OPERATOR WELL NO. Lovejoy 201

Well Pad Name: Halley's

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF APPLICATION}}$

| Notice Time Requi | rement: notice shall be provi- | ded no later tha | on the filing date of permit application. |
|---|--|---|--|
| Date of Notice: 10/0 | 7/25 Date Permit Applica | tion Filed: | |
| PERMIT FOR WELL WORK | | | PROVAL FOR THE AN IMPOUNDMENT OR PIT |
| Delivery method p | ursuant to West Virginia Co | ode § 22-6A-10 | n(b) |
| PERSONAL | ☐ REGISTERED | ✓ METH | OD OF DELIVERY THAT REQUIRES A |
| SERVICE | MAIL | | IPT OR SIGNATURE CONFIRMATION |
| sediment control planthe surface of the trace of the trace of the trace of the trace of the surface of the trace of the surface of the erosis operator or lessee, in more coal seams; (4) well work, if the surface a water well, sporovide water for corroposed well work a subsection (b) of this surface of the sheriff or ovision of this artice Code R. § 35-8-5.7.a | a required by section seven of to the control plan seven of the control plan seven of the event the tract of land on where the event the tract of land on where the event the tract of land on where the event is to be used for the plan section of the subsection of the section of the event is described in section nine of the event is to be used for the plan section of the event is to be used for the plan section of the event is to be used for the plan section in the land the event is to take place. (c)(1) I section hold interests in the land required to be maintained pursually the event is to the contrary, notice to a life requires, in part, that the oper | his article, and toposed to be located well work, if the submitted pursual which the well purface tract or tradicement, constitution article; (5) A atted within one stic animals; and for more than three much, the applicant suant to section of the inholder is not attor shall also p | or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the of the surface tract is to be used for roads or other land disturbance as and to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed function, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to be to a locate or of any natural gas storage field within which the elements in common or other co-owners of interests described in the may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule. |
| ☑ Application Not | ice ☑ WSSP Notice ☑ E& | S Plan Notice | ☑ Well Plat Notice is hereby provided to: |
| SURFACE OWN | · / | | ☑ COAL OWNER OR LESSEE |
| Name: Rodney & Debora | | _ | Name: See Attached |
| Address: 580 Low Leve | el Bridge Rd | _ | Address: |
| Grafton, WV 26354-7672 | | _ | TOO AL OREDATOR |
| Name: | | _ | COAL OPERATOR |
| Address: | | _ | Name:Address: |
| 7 STIDEACE OWN | ER(s) (Road and/or Other Dis | _ sturbance) | Address. |
| Name: Rodney & Debora | | sturbance) | ☑ SURFACE OWNER OF WATER WELL |
| Address: 580 Low Leve | | _ | AND/OR WATER PURVEYOR(s) |
| Grafton, WV 26354-7672 | | _ | Name: See Attached |
| | | _ | Address: |
| Address: | | _ | |
| | | _ | OPERATOR OF ANY NATURAL GAS STORAGE FIELD |
| SURFACE OWN | ER(s) (Impoundments or Pits | <u>)</u> | Name: |
| | | · | Address: |
| Address: | | _ | |
| | | _ | *Please attach additional forms if necessary |

47-091-01389

OPERATOR WELL NO. Lovejoy 201
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 WW-6A (8-13) API NO. 47-091

₉₁ _ 47-091-01389

OPERATOR WELL NO. Lovejoy 201

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 201

47-091-01389

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 201 Well Pad Name: Halley's Address: 6031 Wallace Road Ext, Suite 200

Notice is hereby given by: Hlich

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

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.

Wexford, PA 15090

Facsimile:

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

day of October 2025 Subscribed and sworn before me this

My Commission Expires

Arsenal Resources

Halley's Well Pad (Anderson)

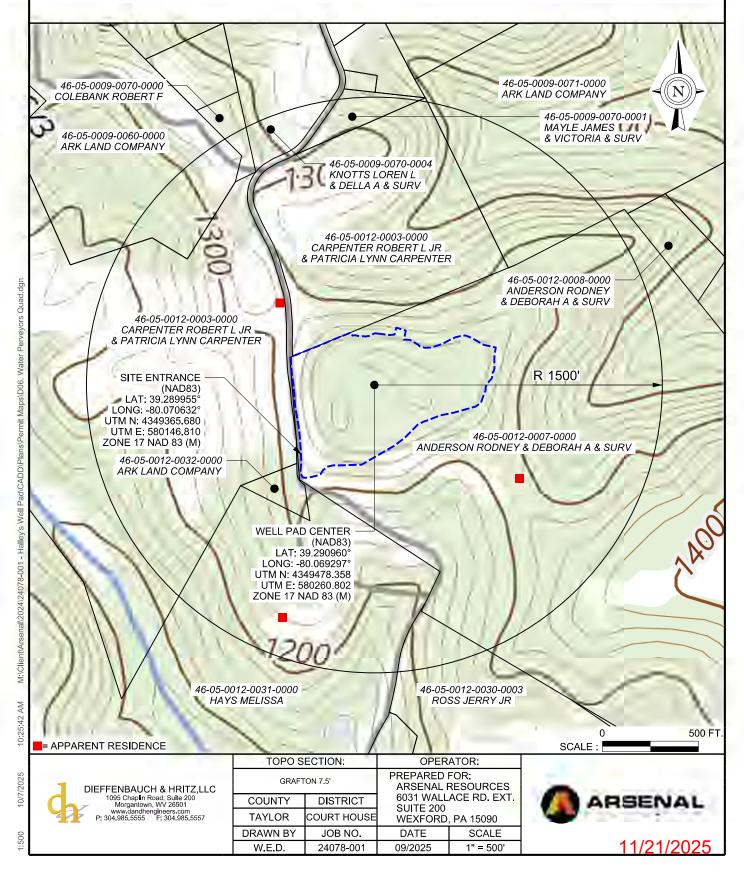
WW-6A - Notice of Application, Attachment

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'



Possible Water Purveyors within 1,500 feet

Well Pad: Halley's Well Pad

District: Court House

County: Taylor

State: WV

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 WW-6A3 (1/12)

Operator Well No. Lovejoy 201

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

| Date of Notice: 09/22/2025 | 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 pla on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least se 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 cobeneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the s and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: Rodney & Deborah A Anderson Address: SEO Low Level Bridge Road Grafton, WV 26354 Name: Address: MINNERAL OWNER(s) Name: See Attached Address: MINNERAL OWNER(s) Name: See Attached Address: MINNERAL OWNER(s) Name: See Attached Address: *please attach additional forms if necessary | |
| Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of pla on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least se 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 common of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the s and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: Rodney & Deborah A Anderson Address: See Attached Address: See Attached Address: Mineral Owner(s) Name: See Attached Address: Mineral Owner(s) Name: See Attached Address: Mineral Owner(s) Name: See Attached Address: ** Please attach additional forms if necessary Notice is hereby given: | |
| Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of pla on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least se 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 conduct any plat surveys required pursuant to this article. Such notice shall be provided at least see 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 conduct that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the s and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: Rodney & Deborah A Anderson Address: See Atlached Address: MINERAL OWNER(s) Name: See Atlached Address: MINERAL OWNER(s) Name: See Atlached Address: MINERAL OWNER(s) Name: See Atlached Address: ** *please attach additional forms if necessary | |
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| SURFACE OWNER(s) Name: Rodney & Deborah A Anderson Address: 580 Low Level Bridge Road Grafton, WV 26354 Name: MINERAL OWNER(s) Name: See Attached Address: MINERAL OWNER(s) Name: See Attached Address: Mineral Address: *please attach additional forms if necessary Notice is hereby given: | ven days oal seams I (3) any tate Erosion from the |
| Name: Rodney & Deborah A Anderson Address: 580 Low Level Bridge Road Grafton, WV 26354 Name: MINERAL OWNER(s) Name: See Attached Address: MINERAL OWNER(s) Name: See Attached Address: Name: hereby given: | |
| Name: MINERAL OWNER(s) | |
| Name: MINERAL OWNER(s) | |
| Name: Address: Name: See Attached Name: See Attached Address: Address: *please attach additional forms if necessary Notice is hereby given: | |
| Address: Name: See Attached Address: Address: *please attach additional forms if necessary Notice is hereby given: | |
| Name: See Attached Name: See Attached Address: | |
| Address: *please attach additional forms if necessary Notice is hereby given: | |
| Address: *please attach additional forms if necessary Notice is hereby given: | |
| Notice is hereby given: | |
| | |
| a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: 39.290960, -80.069297 | to conduct |
| County: Taylor Public Road Access: CR-13/7/Low Level Bridge Road | |
| District: Courthouse Watershed: Long Run Construction of Cons | |
| 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 pmay be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 th Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . | Street, SE, |
| Notice is hereby given by: | |
| Well Operator: Arsenal Resources Address: 6031 Wallace Road Ext Suite 200 | |
| Telephone: 724-940-1100 Wexford, PA 15090 | |
| Email: eglick@arsenalresources.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 201 (1/12)

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

| Notice Time Date of Notic | Requirement: notice shall be provided no la ce: 10/07/2025 Date Permit Appl | | | application. |
|---|---|--|---|--|
| Delivery met | thod pursuant to West Virginia Code § 22- | 6A-16(c) | | |
| | | AND ELIVERY | | |
| return receipt the planned of required to be drilling of a damages to the | W. Va. Code § 22-6A-16(c), no later than the requested or hand delivery, give the surface operation. The notice required by this subset provided by subsection (b), section ten of the horizontal well; and (3) A proposed surface he surface affected by oil and gas operations the required by this section shall be given to the | owner whose la ection shall ind its article to a su use and composite the | and will be used for clude: (1) A copy arface owner whosensation agreement 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 nt containing an offer of compensation for pensable under article six-b of this chapter. |
| (at the addres | eby provided to the SURFACE OWNER(s s listed in the records of the sheriff at the time & Deborah A. Anderson | e of notice): | e: | |
| Address: 580 | Low Level Bridge Rd | Addı | ess: | |
| Grafton, WV 263 | 54-7672 | | | |
| | eby given: Vest Virginia Code § 22-6A-16(c), notice is h the surface owner's land for the purpose of d West Virginia Taylor Courthouse Grafton | rilling a horizo UTM NAI Public Roa | ntal well on the tra Easting: Northing: | |
| Watershed: | Long Run | Generally | used farm name. | Anderson |
| Pursuant to V to be provide horizontal we surface affect information r | Shall Include: Vest Virginia Code § 22-6A-16(c), this notice ed by W. Va. Code § 22-6A-10(b) to a surfell; and (3) A proposed surface use and compted by oil and gas operations to the extent the related to horizontal drilling may be obtained located at 601 57th Street, SE, Charleste Fault.aspx. | face owner who ensation agreed he damages are d from the Sec | ose land will be ment containing and compensable underetary, 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 7 Department of Environmental Protection |
| Well Operato | | Address | : 6031 Wallace Road | Ext., Suite 200 |
| Telephone: | 724-940-1100 | | | · |
| Email: | eglick@arsenalresources.com | Facsimi | e: 800-428-0981 | |
| | | | | |

Oil and Gas Privacy Notice:

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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 | |

WW-6A7 (6-12)

| OPERATOR:_ | Arsenal Resources | WELL NO: Lovejoy 201 |
|------------|-------------------|-----------------------|
| PAD NAME:_ | | |
| REVIEWED E | BY: Emily Glick | SIGNATURE: Emily Hick |

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

| Well R | 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 |

ENS APPROVED

MAR 2025 DATE

24078-001 PROJECT NO

ENAL

RS

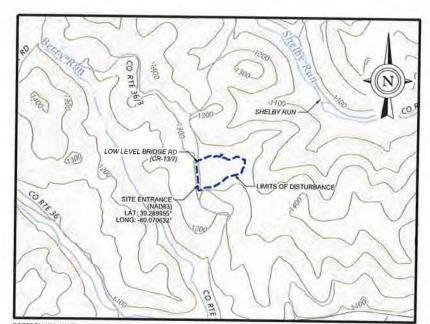
4

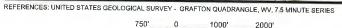
HALLEY'S WELL PAD SITE PLAN

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 BREAKDOWN | |
|--|---------------------------------|
| 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

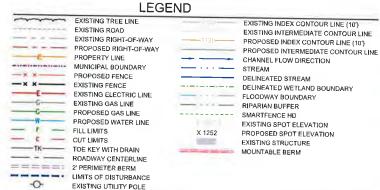
DIEFFENBAUCH & HRITZ, LLC 1095 CHAPLIN ROAD SUITE 200 MORGANTOWN, WV 26501 PHONE: (304) 985-5555

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

