



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, April 22, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC
6031 WALLACE RD. EXTENSION
WEXFORD, PA 15090

Re: Permit approval for JOHNSON TFP-40 201
47-091-01367-00-00

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

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

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

James A. Martin
Chief

A blue ink signature of James A. Martin, written over the printed name and title.

Operator's Well Number: JOHNSON TFP-40 201
Farm Name: RENEE JOHNSON
U.S. WELL NUMBER: 47-091-01367-00-00
Horizontal 6A New Drill
Date Issued: 4/22/2022

Promoting a healthy environment.

04/22/2022



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

Austin Caperton, Cabinet Secretary
dep.wv.gov

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

TO: Arsenal Resources
6031 Wallace Road Extension Suite 603
Wexford, PA 15090

DATE: February 12, 2019
ORDER NO.: 2019-W-3

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Arsenal is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 6031 Wallace Road Extension Suite 603, Wexford, PA 15090.
3. On October 25, 2018 Arsenal submitted a well work permit applications identified as API# 47-091-01351, 47-091-01352, 47-091-01353, 47-091-01354, 47-091-01355 and 47-091-01356. The proposed wells are to be located on the Johnson TFP40 Pad in the Rosemount District of Taylor County, West Virginia.
4. On October 25, 2018 Arsenal requested a waiver for Wetlands W, X, Y and BB as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-091-01351, 47-091-01352, 47-091-01353, 47-091-01354, 47-091-01355 and 47-091-01356. The perennial stream Beards Run is more than 100' from the LOD of the well pad so it will not be included in this order.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.”

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that “no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands W, X, Y and BB well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-091-01351, 47-091-01352, 47-091-01353, 47-091-01354, 47-091-01355 and 47-091-01356. The Office of Oil and Gas hereby **ORDERS** that Arsenal shall meet the following site construction and operational requirements for the Johnson TFP40 Well Pad:

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

Thus ORDERED, the 12th day of February, 2019.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:



JAMES A. MARTIN, CHIEF

NO-HORNOZOC FOR DECS-ISSUED

EROSION & SEDIMENT CONTROL PLAN

JOHNSON TFP 40 WELL SITE

HARRISON AND TAYLOR COUNTY, WEST VIRGINIA

FOR



ISSUED FOR CONSTRUCTION

LOD SUMMARY			
PARCEL	ACREAGE	PARCEL	ACREAGE
COUNTY ROUTE 27 (GREEN VALLEY ROAD)	0.02	WANDER CREEK LEE	2.91
SMICK JOHN TROY & CYNTHIA R (P-15-231-0024-0000-0000)	5.87	WANDER CREEK LEE	1.73
REMAINDER AREA #2 (M-81-640 PAR 19-21 OR 1030 PG 127)	8.79	JOHNSON FENCE	8.27
		JOHNSON FENCE	17.70
		JOHNSON FENCE	17.70
TOTAL			34.99

- THE PAD AND LOC (INCLUDING EAS CONTROL FEATURES) IS WITHIN 100 FEET OF A PERENNIAL STREAM OR WETLAND.
- THE PAD AND LOC (INCLUDING EAS CONTROL FEATURES) IS NOT WITHIN 300 FEET TO A NATURALLY PRODUCING TROUT STREAM.
- THE PAD AND LOC (INCLUDING EAS CONTROL FEATURES) IS NOT WITHIN 1000 FEET TO A GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY.
- THE WELL IS NOT WITHIN 250 FEET TO AN EXISTING WATER WELL OR DEVELOPED SPRING.
- THE CENTER OF THE PAD IS AT LEAST 825 FEET FROM AN OCCUPIED DWELLING STRUCTURE.
- THE CENTER OF THE PAD IS AT LEAST 875 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET.

LOD SUMMARY	
ACCESS ROAD	21.27
WELL PAD	0.20
TANK PAD	1.70
STOCKPILE	4.50
MODIFIED AREA	1.43
TOTAL	34.99
TRIF CLEARING	85.93



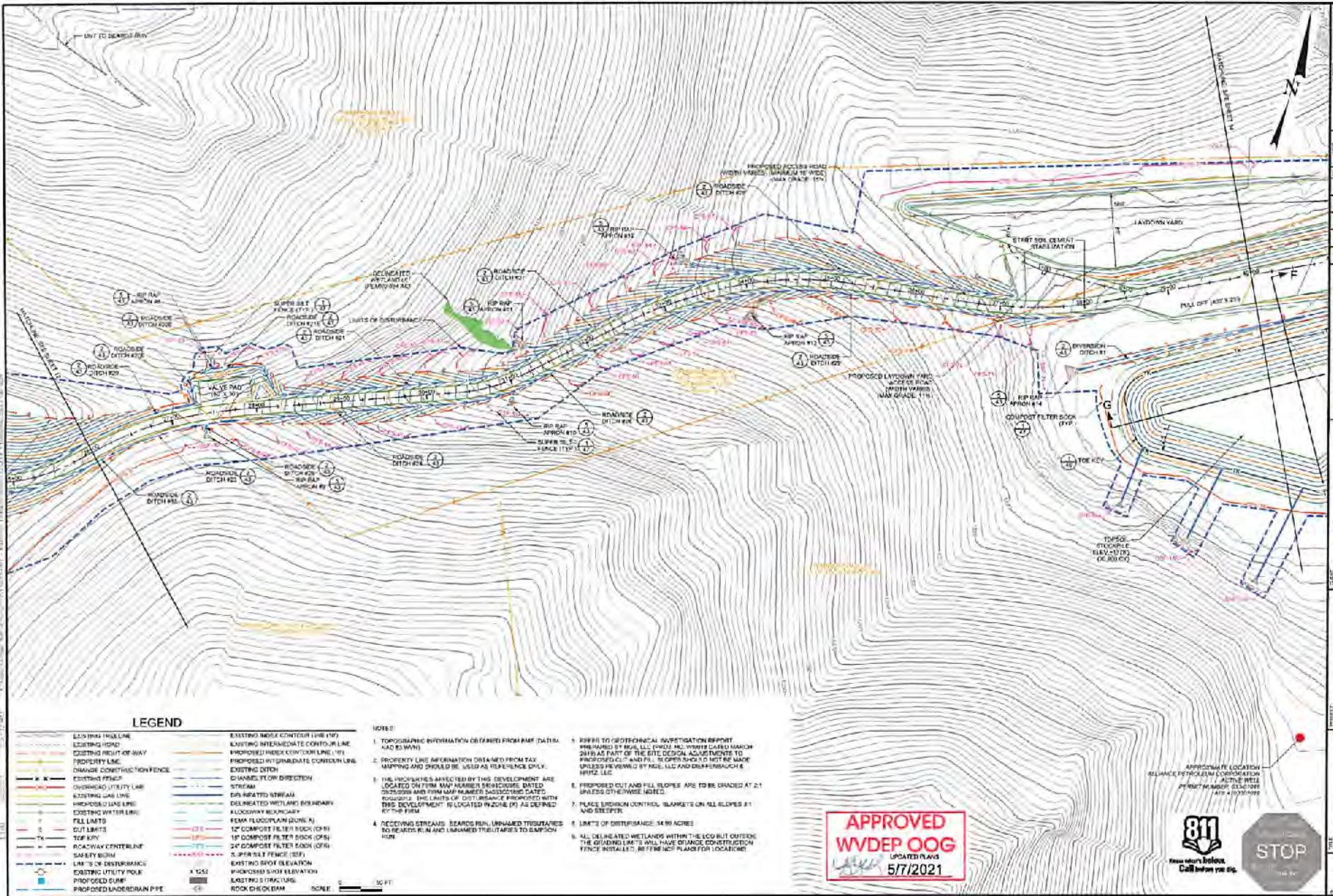
PROJECT NO. 17078-007
MARCH 2021
DIEFFENBAUCH & HRITZ, LLC

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DRAWING NO.	TITLE
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50	QUANTITY SUMMARY



PROJECT: JOHNSON TFP40 WELL SITE
 TITLE SHEET
 1
 DRAWING NO.

NO-COUR-SSZOC FOR CONSTRUCTION



LEGEND

--- (dashed line)	EXISTING INDEX CONTOUR LINE (1'P)
--- (dashed line)	EXISTING INTERMEDIATE CONTOUR LINE
--- (dashed line)	PROPOSED INDEX CONTOUR LINE (1'P)
--- (dashed line)	PROPOSED INTERMEDIATE CONTOUR LINE
--- (dashed line)	EXISTING DITCH
--- (dashed line)	DRAINAGE CONSTRUCTION FENCE
--- (dashed line)	EXISTING FENCE
--- (dashed line)	OVERHEAD UTILITY LINE
--- (dashed line)	EXISTING GAS LINE
--- (dashed line)	PROPOSED GAS LINE
--- (dashed line)	EXISTING WATER LINE
--- (dashed line)	FILL LIMITS
--- (dashed line)	CUT LIMITS
--- (dashed line)	TOP KEY
--- (dashed line)	ROADWAY CENTERLINE
--- (dashed line)	SAFETY BEAM
--- (dashed line)	LIMITS OF DISTURBANCE
--- (dashed line)	EXISTING UTILITY POLE
--- (dashed line)	PROPOSED SUMP
--- (dashed line)	PROPOSED UNDERDRAIN PIPE
--- (dashed line)	EXISTING INDEX CONTOUR LINE (1'P)
--- (dashed line)	PROPOSED INDEX CONTOUR LINE (1'P)
--- (dashed line)	PROPOSED WETLANDS CONSTRUCTION LINE
--- (dashed line)	CHANNEL FLOW DIRECTION
--- (dashed line)	STREAM
--- (dashed line)	DELIMITED WETLAND
--- (dashed line)	PERM FLOODPLAIN (ZONE A)
--- (dashed line)	FLOODWAY BOUNDARY
--- (dashed line)	12" COMPOST FILTER BOOK (CFB)
--- (dashed line)	24" COMPOST FILTER BOOK (CFB)
--- (dashed line)	SPRINKLE FENCE (SBF)
--- (dashed line)	EXISTING SPOT ELEVATION
--- (dashed line)	PROPOSED SPOT ELEVATION
--- (dashed line)	EXISTING 3" TRUCK LANE
--- (dashed line)	ROCK CHECK DAM

NOTES:

1. TOPOGRAPHIC INFORMATION OBTAINED FROM BFM (DATA HAS BEEN WASH).
2. PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPS AND SHOULD BE USED AS REFERENCE ONLY.
3. THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM MAP NUMBERED 20050098, DATED 02/25/2009 AND FIRM MAP NUMBER 20050098 DATED 02/25/2009. THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT IS LOCATED IN ZONE (A) AS DEFINED BY THE FIRM.
4. RECEIVING STREAMS, BOARDING RUN, UNPAVED TROTTING TRAILS TO BE MAINTAINED AND UNPAVED TROTTING TRAILS TO BE MAINTAINED.
5. REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY RHE, LLC (PROJECT NO. 17070) DATED MARCH 2019 AS PART OF THE SITE DESIGN ADJUSTMENTS TO PROPOSED C-1 AND P-1. TO COPS SHOULD NOT BE MADE UNLESS REVIEWED BY RHE, LLC AND DIEFFENBAUGH & HIRTZ, LLC.
6. PROPOSED CUT AND FILL SLOPES ARE TO BE GRADED AT 2:1 UNLESS OTHERWISE NOTED.
7. PLACE EROSION CONTROL SLURKETS ON ALL SLOPES 2:1 AND STEEPER.
8. LIMITS OF DISTURBANCE: 14.99 ACRES.
9. ALL DELIMITED WETLANDS WITHIN THE LOD BUT OUTSIDE THE GRADING LIMITS WILL HAVE GRADE CONSTRUCTION FENCE INSTALLED. REFER TO PLAN FOR LOCATION.

APPROVED
WVDPR OOG
UPDATED PLANS
5/7/2021

APPROXIMATE LOCATION
RELANCE PETROLEUM CORPORATION
ACTIVE WELL
PERMIT NUMBER: 02-10098
DATE: 10/30/2009

811
Know what's below.
Call before you dig.

STOP
NO ENTRY

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. 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.

API Number: _____

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

04/22/2022

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

1) Well Operator: Arsenal Resources ✓ 494519412 ✓ Taylor Fleming Rosemont ✓
Operator ID County District Quadrangle

2) Operator's Well Number: Johnson TFP 40 #201 ✓ Well Pad Name: Johnson TFP 40

3) Farm Name/Surface Owner: Renee Johnson Public Road Access: CR 17, Oral Lake Road

4) Elevation, current ground: 1338.79' Elevation, proposed post-construction: 1332.5'

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

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation - Marcellus Shale, Top = 7,824.5ft, Bottom-7,916.5ft, Anticipated Thickness = 92ft, Associated Pressure 0.5psi/ft

8) Proposed Total Vertical Depth: 7,903.5 ft

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 22,343.2 ft

11) Proposed Horizontal Leg Length: 13,715 ft

12) Approximate Fresh Water Strata Depths: 45.5', 132.5', 187.5', 219.5', 817.5', 1102.5' ✓

13) Method to Determine Fresh Water Depths: Offset wells reported water depths (091-00116, 091-00117, 091-00118, 091-00120) ✓

14) Approximate Saltwater Depths: 1987.5' ✓

15) Approximate Coal Seam Depths: Elk Lick-322.5', Harlem-386.5', Bakerstown-477.5', Bruth Creek 51 7.5', Upper Freeport-630.5', Lower Freeport-682.5', Upper Kittanning-769.5', Middle Kittanning-825.5', Lower Kittanning 845.5', Clarion-875.5' ✓

16) Approximate Depth to Possible Void (coal mine, karst, other): None Known ✓

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No None Known

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

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MAR 21 2022

WV Department of
Environmental Protection

Kenneth J. Reynolds 3-16-22

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	24	New		94	80	80 ✓	CTS
Fresh Water	13.375	New	J-55	54.50	1,175	1,175 ✓	CTS
Coal							
Intermediate	9.625	New	J-55	40	2,500	2,500 ✓	CTS
Production	5.5	New	P-110	20	22,343	22,343 ✓	TOC@2,350
Tubing							
Liners							

Harold A. Reynolds 3-16-22

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	24	36			0	Class A 3%CaCl2	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A 3%CaCl2	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A 3%CaCl2	1.29
Production	5.5	8.5-8.75	0.361	14,360	11,500	Class A / 50-50 Poz	1.29/1.34
Tubing					5,000		
Liners					NA		

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PACKERS

WV Department of
Environmental Protection

Kind:				
Sizes:				
Depths Set:				

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

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

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

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

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 33.56

22) Area to be disturbed for well pad only, less access road (acres): 6.20

23) Describe centralizer placement for each casing string:

24"- No centralizers 13 3/8" – one bow spring centralizer on every other joint 9 5/8" – one bow spring centralizer every third joint from TD to surface 5 1/2" – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,600'; there will be no centralizers from 2,600 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 cement and no greater than 3% CaCl (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A cement, & no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 2,350' (+/- 150' above the casing shoe for the 9 5/8") with Class A and 50/50 Poz cement retarded (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right angle" set) during the plastic phase of the cement set-up.

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

4709101367

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

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Office of Oil & Gas

MAR 21 2022

WV Department of
Environmental Protection

04/22/2022

WW-9
(4/16)

4709101367

API Number 47 - 091 -
Operator's Well No. Johnson TFP 40 #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) Simpson Creek Quadrangle Rosemont Do you anticipate
using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit sed?
Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Bentonite, Soap & Polymer Sticks, Soda Ash, Sodium Bicarbonate, Defoamer, Base Oil, Emulsifiers, Lime, Barite

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Meadowfill Landfill / Waste Management, Apex Landfill, and Wesmoreland Sanitary Landfill

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

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

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

Company Official Signature [Signature]
Company Official (Typed Name) Ross Schweitzer
Company Official Title Sr. Director of Drilling, Construction and Permitting

RECEIVED
Office of Oil & Gas

MAR 21 2022

WV Department of
Environmental Protection

Subscribed and sworn before me this 16th day of March, 20 22

Annmarie O'Connor

Notary Public
Commonwealth of Pennsylvania - Notary Seal
Annmarie O'Connor, Notary Public
Allegheny County
My commission expires March 17, 2022
Commission number 1013834
Member, Pennsylvania Association of Notaries

My commission expires 3/17/2022

04/22/2022

Proposed Revegetation Treatment: Acres Disturbed 33.56 Prevegetation pH 6.8 Average
 Lime 2.67 Tons/acre or to correct to pH 6.4
 Fertilizer type 10-20-20
 Fertilizer amount 1000 lbs/acre
 Mulch 3-4 Tons/acre

Seed Mixtures

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

Attach:
 Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Kenneth L. Reynolds*

Comments: Re-seed and mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade erosion and sediment control measures where needed per the West Virginia Erosion and Sediment Control Field Manual.

RECEIVED
 Office of Oil & Gas
 MAR 21 2022

WV Department of Environmental Protection

Title: OIL & GAS INSPECTOR Date: 3-16-22

Field Reviewed? () Yes () No



ARSENAL

R E S O U R C E S

SITE SAFETY PLAN

JOHNSON TFP 40 WELL PAD #201

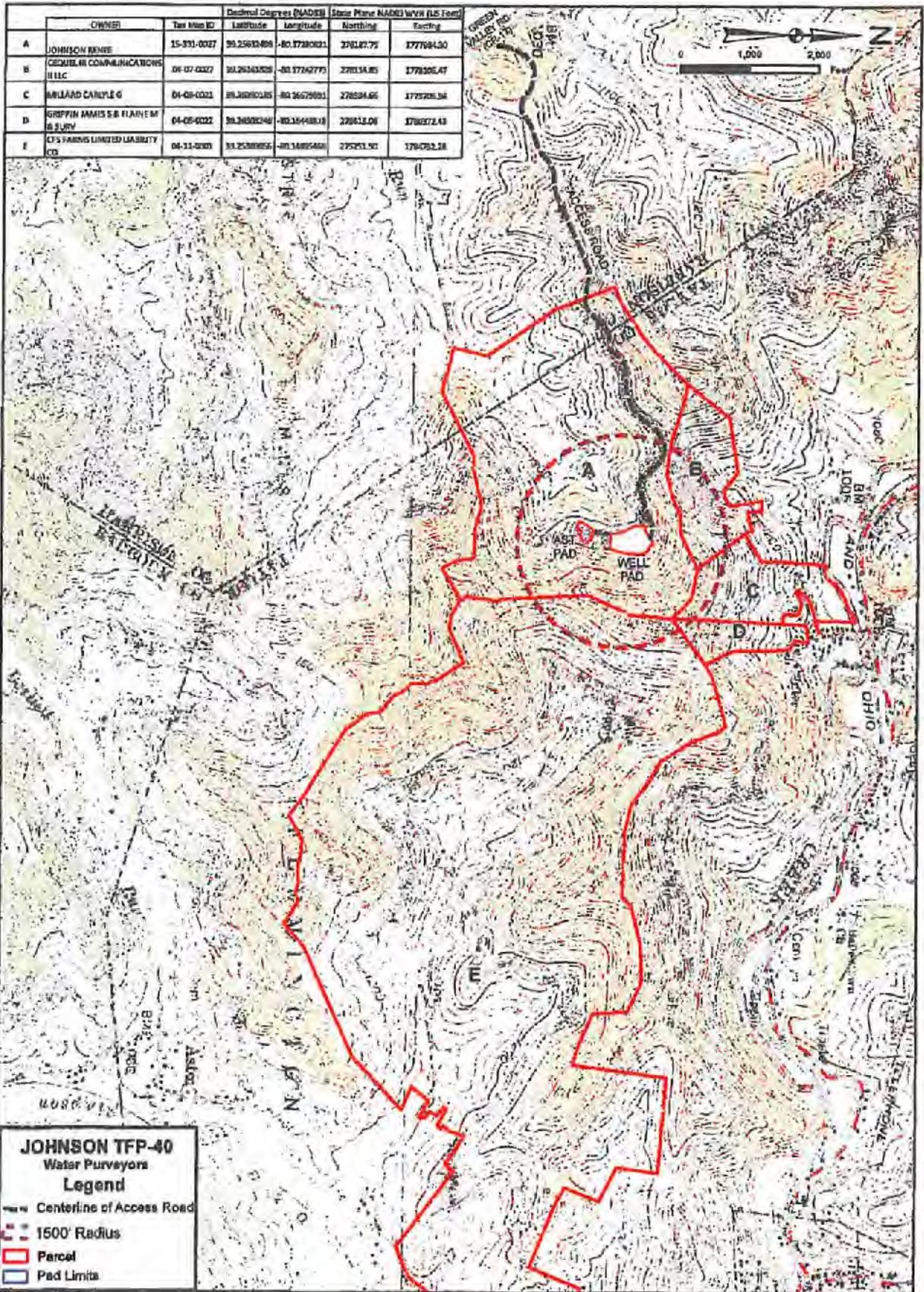
911 Address:

4006 Green Valley Rd
Bridgeport, WV 26330

Ernest L. Reynolds 3-16-22

RECEIVED
Office of Oil & Gas
MAR 21 2022

WV Department of
Environmental Protection



Potential Water Purveyor's

Project: Johnson TFP-40
County: Harrison & Taylor
State: West Virginia

The following surface owners may have water supplies within 1,500 feet of the Johnson 40 well pad location:

	Name	Tax Map ID	Address
A	JOHNSON RENEE	15-331-0027	511 Beards Run Road, Bridgeport, WV 26330
B	CEQUEL III COMMUNICATIONS II LLC	04-07-0027	520 Maryville Centre DR Suite, Saint Louis, MO 63141
C	MILLARD CARLYLE G	04-08-0021	413 High St, Bridgeport, WV 26330
D	GRIPPIN JAMES S & ELAINE M & SURV	04-08-0022	137 Ocello St, Clarksburg, WV 26301
E	CFS FARMS LIMITED LIABILITY CO	04-11-0001	PO Box 297, Flemington, WV 26347

RECEIVED
 Office of Oil & Gas
 MAR 21 2022
 WV Department of
 Environmental Protection



Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near Arsenal Resources hydraulic fracturing in Taylor County, WV prior to hydraulic fracturing at Johnson TFP40 and Well Number 201.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,910' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Benson formations (approximately 4,900' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with best management practices and emergency action plans for this site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the Division of Oil and Gas is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Operators.

Arsenal Resources, using available data (WV Geological Survey, WVDEP Website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in Attachment A.

Upon approval of this plan, Arsenal Resources will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in Attachment B.

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to Arsenal Resources and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and ARSENAL RESOURCES if any changes in water, gas production, pressure or other anomalies are identified.



2. Reporting

Arsenal Resources will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately after any event of any noted abnormalities.

Area of Review Report - **Johnson TFP 40** Pad, **201** Lateral, **Taylor, Barbour** County, WV

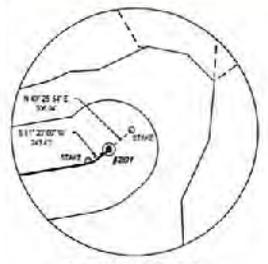
Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
Walter B Goodwin #2	091-00116	Union Drilling Inc.	Existing	39.25858	-80.169849	4560	Benson	NA
Goodwin 4	091-00118	Diversified Production LLC	Existing	39.256779	-80.173388	2480	Big Injun(Grnbr), Fifth	NA
Goff Arnold #1	091-00181	Greylock Conventional LLC	Existing	39.249118	-80.171944	4600	Benson	NA
Charles Compton #3	001-02134	Alliance Petroleum Corp	Existing	39.239652	-80.168152	4829	Keener, Big Injun, Fourth, Benson	NA
John F Steward #1	001-02158	Diversified Production LLC	Existing	39.235591	-80.166388	5083	Benson, Bluestone Crk	NA
J/M Mosesso 32	001-00969	Diversified Production LLC	Existing	39.230265	-80.164906	4722	Big Injun, Riley, Benson	NA
Polino Enterprises Inc Coalquest 13	001-02876	Summit Appalachia Operating Company LLC	Existing	39.226745	-80.161163	1186	Lo Kittanning coal	NA
Polino Enterprises Inc Coalquest 11A	001-02879	Summit Appalachia Operating Company LLC	Existing	39.225878	-80.160416	1014	Lo Kittanning coal	NA
Polino Enterprises Inc Coalquest 12	001-02875	Summit Appalachia Operating Company LLC	Existing	39.22486	-80.160975	960	Lo Kittanning coal	NA

SURFACE HOLE SURVEYED 39° 17' 30" (NAD27)
 BOTTOM HOLE SURVEYED 39° 15' 00" (NAD27)

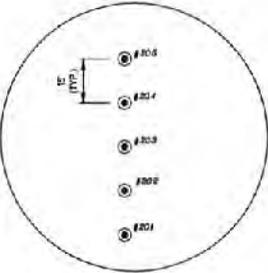
9,801'

822'

Latitude: (NAD27)



REFERENCES TIES (NTS)



REFERENCES TO PROPOSED HORIZONTAL WELL SURFACE LOCATIONS (NTS)

REFERENCE NOTES

1. Property lines as shown taken from deeds, tax maps, and field locations. A full boundary survey is not expressed or implied. All bearings are based on grid North. Ownership taken from public records Taylor County, West Virginia Date 2022
2. State Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade G.S.
3. There are no railroads, dwellings, or agricultural buildings within 625 feet of center of pad.
4. No water wells found within 250' of the center of well pad.

LEGEND

- PROPOSED WELL LATERAL
- - - - - PROPOSED WELL TIE LINE
- STREAM
- EXISTING ROAD
- BUFFER
- - - - - PROPERTY LINE
- - - - - MINERAL TRACT BOUNDARY
- - - - - COUNTY BOUNDARY LINE
- ⊙ #H PROPOSED WELL HEAD
- ⊕ EXISTING WELL HEAD (w/rod)
- ⊕ EXISTING WELL HEAD (plugged)
- ⊕ EXISTING WELL HEAD (w/rod & plug)
- ⊕ EXISTING WELL HEAD (w/rod)
- ⊕ EXISTING WELL HEAD (w/rod & plug)
- ⊕ EXISTING WELL HEAD (w/rod)
- ⊕ LANDING POINT/BOTTOM HOLE
- ⊕ SURFACE OWNER

BOTTOM HOLE: NAD83
 LAT: 39.218862
 LONG: -80.156208

SURFACE HOLE: NAD27
 LAT: 39.288407
 LONG: -80.156208

Longitude: (NAD27)

BOTTOM HOLE SURVEYED 39° 07' 30" (NAD27)
 SURFACE HOLE SURVEYED 80° 10' 00" (NAD27)

FILE#: 22078-001
 SHEET#: 1 of 2
 SCALE: 1" = 3000'
 TICK SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: WW-RTN CORS STATION

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

Signed: *Herbert L. Parsons, III* 3/11/2022
 P.S. #2361: Herbert L. Parsons, III P.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 W/DEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MARCH 11, 2022
 JOHNSON TFP-40
 OPERATOR'S WELL #: # 201
 API WELL #: 47 091
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: SIMPSON CREEK
 COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT
 SURFACE OWNER: RENEE JOHNSON
 OIL & GAS ROYALTY OWNER: SEE WW-6A1

ELEVATION: 1,332.5
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 284 ±
 ACREAGE: 284 ±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE SPECIFY: _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,903.5' TMD: 22,343'

WELL OPERATOR: ARSENAL RESOURCES
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090

DESIGNATED AGENT: ROSS SCHWEITZER
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090

04/22/2022

SURFACE PARCEL OWNER INFORMATION			ADJOINER PARCEL OWNER INFORMATION		
ID#	PARCEL NUMBER	OWNER NAME	ID#	PARCEL NUMBER	OWNER NAME
1	033-15-351-27	JOHNSON RENEE	2	001-05-9-2	STEWART FARM LLC
28	033-15-351-10	JOHNSON RENEE	5	091-04-13-1	CFB FARMS LIMITED LIABILITY CO
4	033-15-351-32	GCSTREAM LLC	6	091-04-8-22	GRIPPIN JAMES S & ELAINE M
3	033-15-351-33	GCSTREAM LLC	33	001-05-9-7	CRDUSE STEPHEN DALE &
26	033-15-351-24	GCSTREAM LLC	35	001-05-9-20.1	CRDUSE STEPHEN DALE & MICHAEL LYNN
39	001-09-9-1	STEWART FARM LLC	38	001-05-9-3	STEWART FARM LLC
81	001-09-9-19	STEWART FARM LLC	41	001-09-12-1	FOUND ENTERPRISES INC
40	001-09-9-20	SEESE ROBERT & BRENDA HWS	43	001-05-9-22	WOLFE LARRY ROBERT WOLFE &
80	001-09-10-2	SMITH JO ANN V & GARY M BROWN JR (WS)	55	001-05-17-27	WOLFE LARRY MICHAEL
42	001-09-11-1	FOUND ENTERPRISES INC	71	001-05-12-63	CHARLTON-FRYER AMANDA S & TIMOTHY R CHARLTON I/II
73	001-05-12-42	FOSTER ERIC M & TRACI D WS	72	001-06-12-60	SCHMANSKY STEVEN & DEBRA HWS
			74	001-05-12-2	FOSTER ERIC M & TRACI D WS
			75	001-05-12-47	TRADER PAUL L
			76	001-05-12-41	TRADER PAUL & LORETTA WRS
			77	001-05-11-1.2	BECKWITH LUMBER CO INC
			78	033-15-351-31	GCSTREAM LLC
			79	033-15-351-22	GCSTREAM LLC
			82	001-09-10-1	SMITH JO ANN V & GARY M BROWN JR (WS)
			83	033-15-351-31	GCSTREAM LLC
			85	033-15-351-23	GCSTREAM LLC
			87	033-15-351-11	GCSTREAM LLC
			89	033-15-351-7	WARDER DRAN LEE 2/3 INT & DRAN
			92	RIGHT-OF-WAY	COUNTY ROUTE 77S BARBOUR CORNER
			93	001-09-12C-1	COFFELLO HUGO HRS
			96	091-04-8-21	MILLARD CARLYLE G
			97	091-04-7-27	CEQUEL III COMMUNICATIONS
			98	091-04-7-9	CEQUEL III COMMUNICATIONS
			99	091-04-7-8	FRUM SHIRLEY A
			100	033-15-351-9	JOHNSON RENEE
			101	RIGHT-OF-WAY	COUNTY ROUTE 17 DRAL LAKE ROAD

REFERENCE NOTES

- Property lines as shown taken from deeds, tax maps, and field locations. A full boundary survey is not intended or implied. All bearings are based on grid North. Ownership taken from public records Taylor County, West Virginia. Date 2022.
- State Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade GPS.
- There are no railroads, dwellings, or agricultural buildings within 625 feet of center of pad.
- No water wells found within 250' of the center of well pad.

LEGEND

-----	PROPOSED WELL LATERAL
-----	PROPOSED WELL TIE LINE
-----	STREAM
-----	EXISTING ROAD
-----	BUFFER
-----	PROPERTY LINE
-----	MINERAL TRACT BOUNDARY
-----	COUNTY BOUNDARY LINE
⊙ #	PROPOSED WELL HEAD
⊙	EXISTING WELL HEAD (Active)
⊙	EXISTING WELL HEAD (Abandoned)
⊙	EXISTING WELL HEAD (Flow Drilled)
⊙	EXISTING WELL HEAD (Flow Drill)
⊙	LANDING POINT/BOTTOM HOLE
⊙	SURFACE OWNER

FILE#: 22078-001
 SHEET#: 2 of 2
 SCALE: 1" = 3000'
 TICK SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: WV-RTN CORS STATION

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

Signed: Herbert L. Parsons 3/11/2022
 P.S. #2361: Herbert L. Parsons, III P.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SIMPSON CREEK
 COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT
 SURFACE OWNER: RENEE JOHNSON
 OIL & GAS ROYALTY OWNER: SEE WW-6A1

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE SPECIFY: _____

TARGET FORMATION: MARCELLUS

WELL OPERATOR: ARSENAL RESOURCES
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090

DATE: MARCH 11, 2022
 OPERATOR'S WELL #: JOHNSON TFP-40
201
 API WELL #: 47 091
 STATE COUNTY PERMIT

ELEVATION: 1,332.5
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 284 ±
 ACREAGE: 284 ±

ESTIMATED DEPTH: TVD: 7,903.5' TMD: 22,343'
 DESIGNATED AGENT: ROSS SCHWEITZER
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090



Click or tap to enter a date.

Alliance Petroleum Corp
4150 Belden Village Ave. NW Ste 410
Canton, OH 44718-2553

RE: Johnson TFP 40 Pad

Dear Sir/Madam,

Arsenal Resources has developed a Marcellus pad, Johnson TFP40, well #201, located in Taylor County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,910 TVD) and existing conventional natural gas wells included in the attached well list for which you are believed to be the operator.

Arsenal Resources anticipates conducting hydraulic fracturing at the Johnson TFP40 pad, well #201, during the 4th Quarter of 2022. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our newly planned wells. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during and after fracturing operations:

1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and Arsenal Resources if any changes in water, gas production, pressure or other anomalies are identified.

Please feel free to contact me at 724-940-1218 with any questions or comments. You may also contact the WV Office of Oil and Gas at 304-926-0499.

Sincerely,

A handwritten signature in black ink that reads 'R. Schweitzer'.

Ross Schweitzer
Sr. Director of Drilling, Construction & Permitting

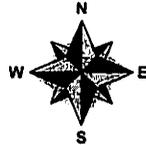
AOR - Attachment "B"

SURFACE HOLE SURVEYED 39° 17' 30" (NAD27)
 BOTTOM HOLE SURVEYED 39° 15' 00" (NAD27)

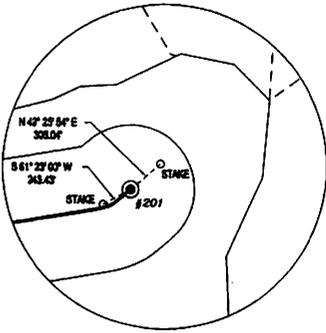
9,801'

822'

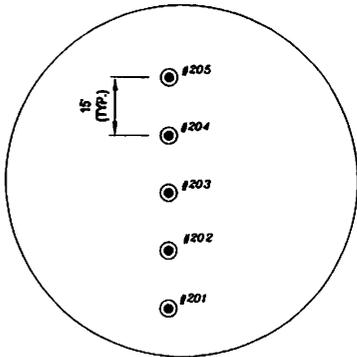
Latitude: (NAD27)



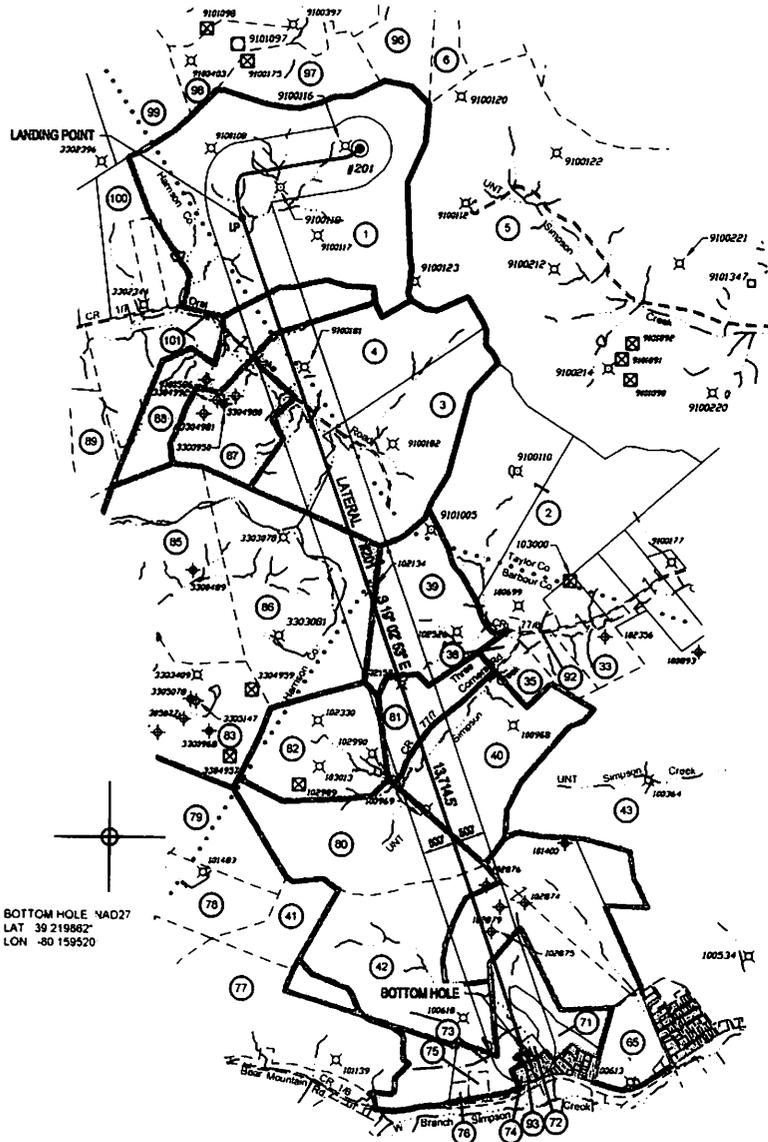
(NAD83-WVN) US SURVEY FT.	
TOP HOLE	N) 276971.722
	E) 1779051.662
LANDING POINT	N) 275876.630
	E) 1777228.570
BOTTOM HOLE	N) 262913.040
	E) 1781704.490
(NAD83-LAT/LONG) DECIMAL	
TOP HOLE	N) 39.258499
	E) -80.169059
LANDING POINT	N) 39.255463
	E) -80.175472
BOTTOM HOLE	N) 39.219963
	E) -80.159330
(UTM, NAD83) METER	
TOP HOLE	N) 4345792.144
	E) 571690.548
LANDING POINT	N) 4345449.270
	E) 571140.660
BOTTOM HOLE	N) 4341522.360
	E) 572569.980



REFERENCES TIES (NTS)



REFERENCES TO PROPOSED HORIZONTAL WELL SURFACE LOCATIONS NTS



REFERENCE NOTES

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- State Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade GPS.
- There are no railroads, dwellings, or agricultural buildings within 625 feet of center of pad.
- No water wells found within 250' of the center of well pad.

LEGEND

- PROPOSED WELL LATERAL
- - - PROPOSED WELL TIE LINE
- STREAM
- EXISTING ROAD
- BUFFER
- PROPERTY LINE
- MINERAL TRACT BOUNDARY
- COUNTY BOUNDARY LINE
- #H PROPOSED WELL HEAD
- ⊗ EXISTING WELL HEAD (Active)
- ⊕ EXISTING WELL HEAD (Plugged)
- ⊖ EXISTING WELL HEAD (Abandoned)
- ⊙ EXISTING WELL HEAD (Never Drilled)
- EXISTING WELL HEAD (Future Drift)
- LANDING POINT/BOTTOM HOLE
- ⊙ SURFACE OWNER

BOTTOM HOLE NAD27
 LAT 39 219862"
 LON -80 159520

SURFACE HOLE NAD27
 LAT 39 258407"
 LON -80 169253"

Longitude: (NAD27)

10.873'

12.108'

FILE#: 22078-001

SHEET#: 1 of 2

SCALE: 1" = 3000'

TICK SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: WV-RTN CORS STATION

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

Signed: *Herbert L. Parsons, III* 3/11/2022
 P.S. #2361; Herbert L. Parsons, III P.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MARCH 11, 2022

JOHNSON TFP-40
 OPERATOR'S WELL #: # 201

API WELL #: 47 091
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SIMPSON CREEK
 COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT
 SURFACE OWNER: RENEE JOHNSON
 OIL & GAS ROYALTY OWNER: SEE WW-6A1

ELEVATION: 1,332.5
 QUADRANGLE: ROSEMOND WV
 ACREAGE: 284 ±
 ACREAGE: 284 ±

- DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
- PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
- CLEAN OUT & REPLUG OTHER CHANGE SPECIFY: _____

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 7,903.5' TMD: 22,343'

WELL OPERATOR: ARSENAL RESOURCES
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090

DESIGNATED AGENT: NATHAN SKEEN
 ADDRESS: 633 MAIN STREET
 CITY: BRIDGEPORT STATE: WV ZIP: 26330

BOTTOM HOLE SURVEYED 80° 07' 30" (NAD27)
 SURFACE HOLE SURVEYED 80° 10' 00" (NAD27)

SURFACE PARCEL OWNER INFORMATION

ID#	PARCEL NUMBER	OWNER NAME
1	033-15-331-27	JOHNSON RENEE
88	033-15-351-10	JOHNSON RENEE
4	033-15-351-12	GCSTREAM LLC
3	033-15-351-13	GCSTREAM LLC
86	033-15-351-24	GCSTREAM LLC
39	001-09-9-1	STEWART FARM LLC
81	001-09-9-19	STEWART FARM LLC
40	001-09-9-20	SEESE ROBERT & BRENDA HWS
80	001-09-10-2	SMITH JO ANN V & GARY M BROWN JR (WS)
42	001-09-11-1	POLINO ENTERPRISES INC
73	001-09-12-42	FOSTER ERIC M & TRACI D WS

ADJOINER PARCEL OWNER INFORMATION

ID#	PARCEL NUMBER	OWNER NAME
2	001-09-9-2	STEWART FARM LLC
5	091-04-11-1	CFS FARMS LIMITED LIABILITY CO
6	091-04-8-22	GRIPPIN JAMES S & ELAINE M
33	001-09-9-7	CROUSE STEPHEN DALE &
35	001-09-9-20.1	CROUSE STEPHEN DALE & MICHAEL LYNN
38	001-09-9-3	STEWART FARM LLC
41	001-09-12-1	POLINO ENTERPRISES INC
43	001-09-9-22	WOLFE LARRY, ROBERT WOLFE &
65	001-09-12-27	WOLFE LARRY MICHAEL
71	001-09-12-61	CHARLTON-FRYER AMANDA S & TIMOTHY R CHARLTON L/E
72	001-09-12-60	SCHIMANSKY STEVEN & DEBRA HWS
74	001-09-12C-2	FOSTER ERIC M & TRACI D WS
75	001-09-12-43	TRADER PAUL L
76	001-09-12-41	TRADER PAUL & LORETTA WRS
77	001-09-11-1.2	BECKWITH LUMBER CO INC
78	033-15-351-31	GCSTREAM LLC
79	033-15-351-22	GCSTREAM LLC
82	001-09-10-1	SMITH JO ANN V & GARY M BROWN JR (WS)
83	033-15-351-31	GCSTREAM LLC
85	033-15-351-23	GCSTREAM LLC
87	033-15-351-11	GCSTREAM LLC
89	033-15-351-7	WARDER ORAN LEE 2/3 INT & ORAN
92	RIGHT-OF-WAY	COUNTY ROUTE 77/8 BARBOUR CORNER
93	001-09-12C-1	COSTELLO HUGO, HRS
96	091-04-8-21	MILLARD CARLYLE G
97	091-04-7-27	CEQUEL III COMMUNICATIONS
98	091-04-7-9	CEQUEL III COMMUNICATIONS
99	091-04-7-8	FRUM SHIRLEY A
100	033-15-351-9	JOHNSON RENEE
101	RIGHT-OF-WAY	COUNTY ROUTE 17 ORAL LAKE ROAD

REFERENCE NOTES

- Property lines as shown taken from deeds, tax maps, and field locations. A full boundary survey is not expressed or implied. All bearings are based on grid North. Ownership taken from public records Taylor County, West Virginia Date 2022
- State Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade GPS.
- There are no railroads, dwellings, or agricultural buildings within 625 feet of center of pad
- No water wells found within 250' of the center of well pad.

LEGEND

	PROPOSED WELL LATERAL
	PROPOSED WELL TIE LINE
	STREAM
	EXISTING ROAD
	BUFFER
	PROPERTY LINE
	MINERAL TRACT BOUNDARY
	COUNTY BOUNDARY LINE
	PROPOSED WELL HEAD
	EXISTING WELL HEAD (Active)
	EXISTING WELL HEAD (Plugged)
	EXISTING WELL HEAD (Abandoned)
	EXISTING WELL HEAD (Never Drilled)
	EXISTING WELL HEAD (Future Drill)
	LANDING POINT/BOTTOM HOLE
	SURFACE OWNER

FILE#: 22078-001

SHEET#: 2 of 2

SCALE: 1" = 3000'

TICK SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: WV-RTN CORS STATION

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

Signed: Herbert L. Parsons 3/11/2022
P.S. #2361: Herbert L. Parsons, III P.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: MARCH 11, 2022
JOHNSON TFP-40
OPERATOR'S WELL #: # 201

API WELL #: 47 091
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SIMPSON CREEK
COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT

SURFACE OWNER: RENEE JOHNSON

OIL & GAS ROYALTY OWNER: SEE WW-6A1

ELEVATION: 1,332.5
QUADRANGLE: ROSEMONT WV
ACREAGE: 284 ±
ACREAGE: 284 ±

- DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE SPECIFY: _____

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 7,903.5' TMD: 22,343'

WELL OPERATOR: ARSENAL RESOURCES
ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
CITY: WEXFORD STATE: PA ZIP: 15090

DESIGNATED AGENT: NATHAN SKEEN
ADDRESS: 633 MAIN STREET
CITY: BRIDGEPORT STATE: WV ZIP: 26330

SURFACE HOLE SURVEYED 39° 17' 30" (NAD27)
 BOTTOM HOLE SURVEYED 39° 15' 00" (NAD27)

9,801'

822'

Latitude: (NAD27)



(NAD83-WVN) US SURVEY FT.

TOP HOLE
 N) 276971.722
 E) 1779051.662
 LANDING POINT
 N) 275876.630
 E) 1777228.570
 BOTTOM HOLE
 N) 262913.040
 E) 1781704.490

(NAD83-LAT/LONG) DECIMAL

TOP HOLE
 N) 39.258499
 E) -80.163059
 LANDING POINT
 N) 39.255463
 E) -80.175472
 BOTTOM HOLE
 N) 39.219963
 E) -80.159330

(UTM, NAD83) METER

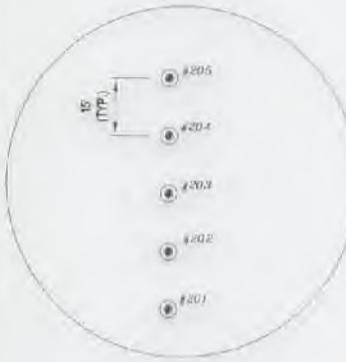
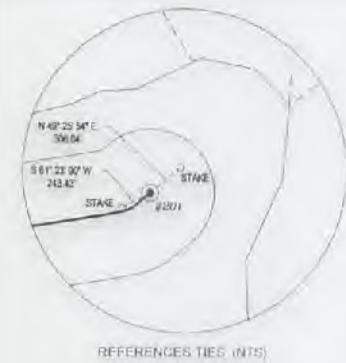
TOP HOLE
 N) 4345792.144
 E) 571690.548
 LANDING POINT
 N) 4345449.270
 E) 571140.660
 BOTTOM HOLE
 N) 4341522.360
 E) 572569.980

10,873'
 12,108'

Longitude: (NAD27)

SURFACE HOLE NAD27
 LAT 39.258497
 LONG -80.163059

#201



REFERENCE NOTES
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 2. State Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade GPS
 3. There are no railroads, dwellings, or agricultural buildings within 525 feet of center of pad
 4. No water wells found within 250' of the center of well pad

LEGEND

- PROPOSED WELL LATERAL
- - - PROPOSED WELL TIE LINE
- STREAM
- EXISTING ROAD
- BUFFER
- PROPERTY LINE
- MINERAL TRACT BOUNDARY
- COUNTY BOUNDARY LINE
- #11 PROPOSED WELL HEAD
- EXISTING WELL HEAD (Active)
- EXISTING WELL HEAD (Plugged)
- ⊕ EXISTING WELL HEAD (Abandoned)
- ⊖ EXISTING WELL HEAD (Leaky Cased)
- EXISTING WELL HEAD (Future Use)
- LANDING POINT/BOTTOM HOLE
- ⊙ SURFACE OWNER

FILE#: 22078-001
 SHEET#: 1 of 2
 SCALE: 1" = 3000'
 TICK SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200

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Signed: *Herbert L. Parsons, III* 3/11/2022
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 601 57TH STREET
 CHARLESTON, WV 25304



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 JOHNSON TFP-40
 OPERATOR'S WELL #: # 201
 API WELL #: 47 091 01367
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: SIMPSON CREEK
 COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT
 SURFACE OWNER: RENEE JOHNSON
 OIL & GAS ROYALTY OWNER: SEE WW-6A1

ELEVATION: 1,332.5
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 284 ±
 ACREAGE: 284 ±

04/22/2022

- DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
- PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
- CLEAN OUT & REPLUG OTHER CHANGE SPECIFY:

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,903.5' TMD: 22,343'
 WELL OPERATOR: ARSENAL RESOURCES DESIGNATED AGENT: NATHAN SKEEN
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300 ADDRESS: 633 MAIN STREET
 CITY: WEXFORD STATE: PA ZIP: 15090 CITY: BRIDGEPORT STATE: WV ZIP: 26330

BOTTOM HOLE SURVEYED 80° 07' 30" (NAD27)
 SURFACE HOLE SURVEYED 80° 10' 00" (NAD27)

SURFACE PARCEL OWNER INFORMATION

ADJOINER PARCEL OWNER INFORMATION

ID#	PARCEL NUMBER	OWNER NAME
1	033-15-331-27	JOHNSON RENEE
88	033-15-351-10	JOHNSON RENEE
4	033-15-351-12	GCSTREAM LLC
3	033-15-351-13	GCSTREAM LLC
86	033-15-351-24	GCSTREAM LLC
39	001-09-9-1	STEWART FARM LLC
81	001-09-9-19	STEWART FARM LLC
40	001-09-9-20	SEESE ROBERT & BRENDA HWS
80	001-09-10-2	SMITH JO ANN V & GARY M BROWN JR (WS)
42	001-09-11-1	POLINO ENTERPRISES INC
73	001-09-12-42	FOSTER ERIC M & TRACI D WS

ID#	PARCEL NUMBER	OWNER NAME
2	001-09-9-2	STEWART FARM LLC
5	091-04-11-1	CPS FARMS LIMITED LIABILITY CO
6	091-04-8-22	GRIPPIN JAMES S & ELAINE M
33	001-09-9-7	CROUSE STEPHEN DALE &
35	001-09-9-20.1	CROUSE STEPHEN DALE & MICHAEL LYNN
38	001-09-9-3	STEWART FARM LLC
41	001-09-12-1	POLINO ENTERPRISES INC
43	001-09-9-22	WOLFE LARRY, ROBERT WOLFE &
65	001-09-12-27	WOLFE LARRY MICHAEL
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- STREAM
- EXISTING ROAD
- BUFFER
- PROPERTY LINE
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- COUNTY BOUNDARY LINE
- PROPOSED WELL HEAD
- EXISTING WELL HEAD (Active)
- EXISTING WELL HEAD (Plugged)
- EXISTING WELL HEAD (Abandoned)
- EXISTING WELL HEAD (Water Drift)
- EXISTING WELL HEAD (Fracture Drill)
- LANDING POINT/BOTTOM HOLE
- SURFACE OWNER

FILE#: 22078-001

SHEET#: 2 of 2

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TICK SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

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P.S. #2361: Herbert L. Parsons, III P.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
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601 57TH STREET
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DATE: MARCH 11, 2022

JOHNSON TFP-40

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API WELL #: 47 091
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SIMPSON CREEK
COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT
SURFACE OWNER: RENEE JOHNSON
OIL & GAS ROYALTY OWNER: SEE WW-6A1

ELEVATION: 1,332.5
QUADRANGLE: ROSEMONT, WV
ACREAGE: 284 ±
ACREAGE: 284 ±

04/22/2022

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- PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
- CLEAN OUT & REPLUG OTHER CHANGE SPECIFY:

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 7,903.5' TMD: 22,343'

WELL OPERATOR: ARSENAL RESOURCES
ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
CITY: WEXFORD STATE: PA ZIP: 15090

DESIGNATED AGENT: NATHAN SKEEN
ADDRESS: 633 MAIN STREET
CITY: BRIDGEPORT STATE: WV ZIP: 26330

**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

RECEIVED
Office of Oil & Gas

MAR 21 2022

WV Department of
Environmental Protection

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

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

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

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

Well Operator: Arsenal Resources
 By: Ross Schweitzer *R. Schweitzer*
 Its: Sr. Director of Drilling, Construction and Permittii

Attachment to WW-6A1, Johnson TFP 40 #201

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
1 (00006031)	BLANCH WATSON(WIDOW) DEZZIE BUTTS & TERRY H BUTTS(HER HUSBAND) DULCIE STARKEY(WIDOW) MARTHA ROBERTS(WIDOW) GAIL WILSON(WIDOW) MARY BARTLETT(WIDOW) JAMES BARTLETT & ELSA BARTLETT(HIS WIFE) ERNESTINE WHITE & JOHN WHITE(HER HUSBAND) LEONA CHANDLER(WIDOW) AND ELLENOR WHITMAN & PAUL WHITMAN (HER HUSBAND)	Union Drilling Inc	12.50%	32/220 and 1030/412	284
	Union Drilling Inc	Equitable Resources Exploration		1189/1209	
	Equitable Resources Energy Co	Equitable Resources Exploration		1199/642	
	Equitable Resources Exploration	Enervest East LMTD Partnership		22/181	
	Enervest East LMTD Partnership	The Houston Exploration Co		1359/820	
	The Houston Exploration Co	Seneca Upshur Petroleum Inc		1367/1084	
	Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum LLC		16/637 also 447/129	
88 (00006674)	Debra A Mulneix	Mar Key LLC	15.00%	1561/464	85
88 (00006675)	Phyllis G Steele	Mar Key LLC	15.00%	1561/454	85
88 (00006676)	Alice L Donley	Mar Key LLC	15.00%	1561/451	85
88 (00006677)	James R Collins Jr by REBECCA COLLINS BISER, ACTING IN HER CAPACITY AS ATTORNEY IN FACT	Mar Key LLC	15.00%	1561/490	85
88 (00006697)	Gale M Steele	Mar Key LLC	15.00%	1568/76	85
88 (00007736)	MARLENE B STEELE, WIDOW, BY DAVID E BOWEN AND CHERYL L BOWEN AS ATTORNEYS-IN-FACT	Mar Key LLC	15.00%	1585/239	85
88 (00007761)	George F Jack Jr	Mar Key LLC	15.00%	1598/842	85

4709101367

Attachment to WW-6A1, Johnson TFP 40 #201

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
4 00008217	LAURA GOFF DAVIS HAROLD DOTSON CATHER AND DIANE GOFF CATHER HIS WIFE	NRM Petroleum Corporation	12.50%	1076/550 34/220	225
	NRM Petroleum Corporation	Eastern American Energy Corporation		1248/378	
	Eastern American Energy Corporation	Energy Corporation of America		1441/1003	
	Energy Corporation of America	Greylock Production, LLC		36/618	
	Greylock Production, LLC	Mar Key, LLC		1607/855	
4 00008218	H DOTSON CATHER AND DIANA CATHER HIS WIFE	NRM Petroleum Corporation	12.50%	1076/548 34/218	225
	NRM Petroleum Corporation	Eastern American Energy Corporation		1248/378	
	Eastern American Energy Corporation	Energy Corporation of America		1441/1003	
	Energy Corporation of America	Greylock Production, LLC		36/618	
	Greylock Production, LLC	Mar Key, LLC		1607/855	
3 00008217	LAURA GOFF DAVIS HAROLD DOTSON CATHER AND DIANE GOFF CATHER HIS WIFE	NRM Petroleum Corporation	12.50%	1076/550 34/220	225
	NRM Petroleum Corporation	Eastern American Energy Corporation		1248/378	
	Eastern American Energy Corporation	Energy Corporation of America		1441/1003	
	Energy Corporation of America	Greylock Production, LLC		36/618	
	Greylock Production, LLC	Mar Key, LLC		1607/855	
3 00008218 RECEIVED Office of Oil & Gas MAR 21 2022	H DOTSON CATHER AND DIANA CATHER HIS WIFE	NRM Petroleum Corporation	12.50%	1076/548 34/218	225
	NRM Petroleum Corporation	Eastern American Energy Corporation		1248/378	
	Eastern American Energy Corporation	Energy Corporation of America		1441/1003	
	Energy Corporation of America	Greylock Production, LLC		36/618	
	Greylock Production, LLC	Mar Key, LLC		1607/855	
86 (00003555)	Lyda Drainer	Union Carbide Corporation	12.50%	853/91	380
	Cresslenn Oil Company	Union Carbide Corporation		897/286	

4709101367

Attachment to WW-6A1, Johnson TFP 40 #201

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	Delta Producing Corporation	Creslenn Oil Company		925/629	
	Petroleum Corporation of America	Delta Producing Corporation		977/168	
	Petroleum Development Corporation	Petroleum Corporation of America		977/153	
	PDC Mountaineer, LLC	Petroleum Development Corporation		1440/364	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
39 (00003422)	John E Lough and Eida D Lough	Petroleum Development Corporation	12.50%	111/114	75
	PDC Mountaineer, LLC	Petroleum Development Corporation		150/444	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
39 (00003421)	L L MOSS AND MARY MARGARET MOSS	Petroleum Development Corporation	12.50%	111/88	75
	PDC Mountaineer, LLC	Petroleum Development Corporation		150/444	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
81 (00003868)	HOLLIE STEWART AND BLANCHE M STEWART HIS WIFE FRANKLIN D STEWART AND SHIRLEY P STEWART HIS WIFE	Petroleum Development Corporation	12.50%	99/252	37.58
	PDC Mountaineer, LLC	Petroleum Development Corporation		150/444	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
40 (00005898)	John A Mosesso and Mary K Mosesso	Union Drilling Inc	12.50%	79/55	98
	Union Drilling Inc	Equitable Resources Exploration		325/219	
RECEIVED Office of Oil & Gas	Equitable Resources Exploration	Equitable Resources Energy Co		328/171	
	Equitable Resources Energy Co	Enervest East LMTD Partnership		129/524	
MAR 21 2022	Enervest East LMTD Partnership	The Houston Exploration Co		138/1	
	The Houston Exploration Co	Seneca Upshur Petroleum Inc		404/381	
WV Department of Environmental Protection	Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum LLC		16/637 also 447/129	
80 (00008219)	Hal S Raper Jr and Cathy C Raper	Mar Key, LLC	12.50%	181/173	227.563

4709101367

Attachment to WW-6A1, Johnson 201

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
65 (00005891)	John A Mosesso, Raymond and Kathryn Chess	Allerton Miller	12.50%	49/227	250
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration		325/219	
	Equitable Resources Exploration	Equitable Resources Energy Co		328/171	
	Equitable Resources Energy Co	Enervest East LMTD Partnership		129/524	
	Enervest East LMTD Partnership	The Houston Exploration Co		138/1	
	The Houston Exploration Co	Seneca Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum LLC		16/637 also 447/129	
72 (00008808)	James L Lee	Mar Key LLC	15.00%	182/335	57.67
73 (00008815)	LINDA KAMINSKI	Mar Key, LLC	12.50%	182/338	16

Agreement to Drill, Complete and Operate Oil & Gas Wells

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

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

[Signature Page Follows]

RECEIVED
Office of Oil & Gas
MAR 21 2022
WV Department of
Environmental Protection

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

ARSENAL RESOURCES LLC

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

RIVER RIDGE ENERGY, LLC

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

RIVER RIDGE HOLDINGS, LLC

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

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West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business Organization Detail

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MAR KEY LLC

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

Organization Information										
Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction				Capital Stock					
Charter County					Control Number	99Q1F				
Charter State	WV					Excess Acres				
At Will Term	A					Member Managed	MBR	RECEIVED Office of Oil & Gas MAR 21 2022		
At Will Term Years					Par Value	WV Department of Environmental Protection				
Authorized Shares					Young Entrepreneur	Not Specified				

4709101367

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

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

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Annual Reports	MAR 21 2022
Filed For	WV Department of Environmental Protection
2020	
2019	
2018	

04/22/2022

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2017
2016
2015
2014
2013
2012
Date filed

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

Monday, March 1, 2021 — 9:37 AM

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SENECA-UPSHUR PETROLEUM, LLC

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

Organization Information								
Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction			Capital Stock				
Charter County				Control Number	0			
Charter State	WV				Excess Acres	0		
At Will Term	A				Member Managed	MBR	<small>RECEIVED</small> Office of Oil & Gas MAR 21 2022	
At Will Term Years				Par Value	WV Department of Environmental Protection			
Authorized Shares				Young Entrepreneur	Not Specified			

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

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

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

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

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

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

Annual Reports	
Filed For	
2020	
2019	
2018	
2017	RECEIVED Office of Oil & Gas
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People Powered. Asset Strong.

March 3, 2022

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; Johnson TFP 40

Dear Mr. Martin:

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

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

Sincerely,

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

Jon Sheldon
Chief Operating Officer

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

04/22/2022

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

Date of Notice Certification: 3-16-2022

API No. 47- 091 -
Operator's Well No. Johnson TFP 40 201
Well Pad Name: Johnson TFP 40

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>571690.472</u>
County: <u>Taylor</u>		Northing: <u>435796.714</u>
District: <u>Flemington</u>	Public Road Access: <u>CR 17, Oral Lake Road</u>	
Quadrangle: <u>Rosemont</u>	Generally used farm name: <u>Johnson</u>	
Watershed: <u>Simpson Creek</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
<p>RECEIVED Office of Oil & Gas MAR 21 2022 WV Department of Environmental Protection</p>	

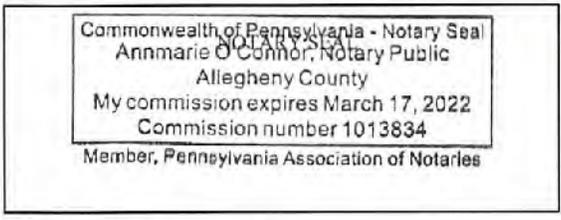
Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

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

Well Operator:	<u>Arsenal Resources</u>	Address:	<u>6031 Wallace Road Ext Suite 300</u>
By:	<u>Ross Schweitzer</u>		<u>Wexford PA 15090</u>
Its:	<u>Sr. Director of Drilling, Construction and Permitting</u>	Facsimile:	<u>1.800.428.0981</u>
Telephone:	<u>724-584-1192</u>	Email:	<u>rschweitzer@arsenalresources.com</u>



Subscribed and sworn before me this 16th day of March 2022
Annmarie O'Connor Notary Public
 My Commission Expires 3/17/2022

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 3-16-22 **Date Permit Application Filed:** 3-17-22

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: Renee Johnson
Address: 511 Beards Run Road
Bridgeport WV 26330
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: See attached
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address: _____
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See attached
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: Renee Johnson
Address: 511 Beard Run Road
Bridgeport WV 26330

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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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

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.

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

WW-6A
(8-13)

4709101367
API NO. 47- 091 -
OPERATOR WELL NO. Johnson TFP40 201
Well Pad Name: Johnson TFP 40

Notice is hereby given by:

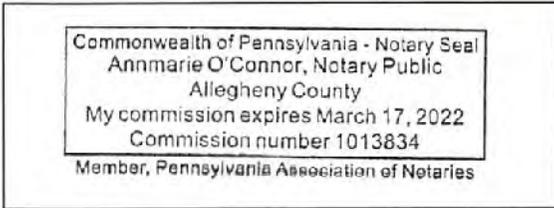
Well Operator: Arsenal Resources
Telephone: 740-584-1192
Email: rschweitzer@arsenalresources.com



Address: 6031 Wallace Road Ext, Suite 300
Wexford PA 15090
Facsimile: 1.800.428.0981

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 16th day of March 2022
Annmarie O'Connor Notary Public
My Commission Expires 3/17/2022

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04/22/2022

**Arsenal Resources
Johnson TFP 40 201
WW-6A – Notice of Application, Attachment (page 1 of 2)**

Surface Owner(s) (Road and/other Disturbance):

Renee Johnson
511 Beards Run Road ✓
Bridgeport, WV 26330

John Troy Snider & Cynthia Snider ✓
95 Beards Run Road
Bridgeport, WV 26330

Arsenal Midstream
6031 Wallace Road Extension, Suite 300 ✓
Wexford, PA 15090

Oran Lee Warder and Janice L Warder ✓
c/o Lee Warder
2381 Silverado Drive,
Weatherford, TX 76087

Coal Owner or Lessee:

CoalQuest Development, LLC ✓
Attn: Chuck Duckworth
100 Tygart Drive
Grafton, West Virginia 26354

Consolidated Coal Company ✓
1000 Consol Energy Drive
Canonsburg, PA 15317

Water Purveyors:

Renee Johnson ✓
511 Beards Run Road
Bridgeport, WV 26330

Cequel III Communications II LLC ✓
520 Maryville Centre Dr Suite
Saint Louis, MO 63141

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**Arsenal Resources
Johnson TFP 40 201
WW-6A – Notice of Application, Attachment (page of 2)**

Water Purveyors (cont'd):

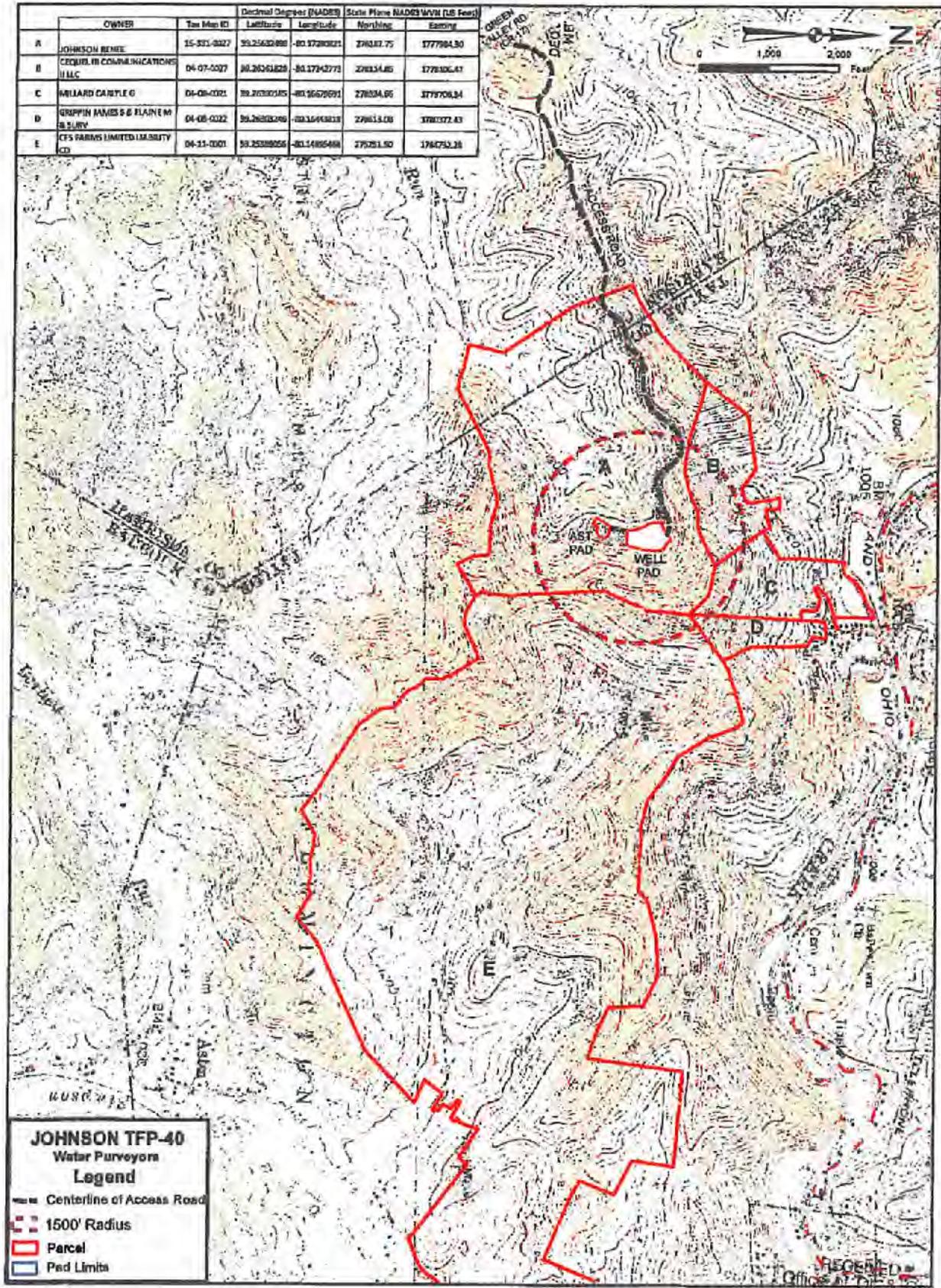
Carlyle G. Millard ✓
413 High St
Bridgeport, WV 26330

James and Elaine Grippin ✓
137 Ocello St.
Clarksburg, WV 26301

CFS Farms Limited Liability Co. ✓
P.O. Box 297
Flemington, WV 26347

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JOHNSON TFP-40
 Water Purveyors
Legend

- Centerline of Access Road
- 1500' Radius
- Parcel
- Pad Limits

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 VA Department of
 Environmental Protection

Potential Water Purveyor's

Project: Johnson TFP-40
County: Harrison & Taylor
State: West Virginia

The following surface owners may have water supplies within 1,500 feet of the Johnson 40 well pad location:

	Name	Tax Map ID	Address
A	JOHNSON RENEE	15-331-0027	511 Beards Run Road, Bridgeport, WV 26330
B	CEQUEL III COMMUNICATIONS II LLC	04-07-0027	520 Maryville Centre DR Suite, Saint Louis, MO 63141
C	MILLARD CARLYLE G	04-08-0021	413 High St, Bridgeport, WV 26330
D	GRIPPIN JAMES S & ELAINE M & SURV	04-08-0022	137 Ocello St, Clarksburg, WV 26301
E	CFS FARMS LIMITED LIABILITY CO	04-11-0001	PO Box 297, Flemington, WV 26347

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

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

Date of Notice: 11/8/2017 **Date of Planned Entry:** 11/16/2017

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)
 Name: Renee Johnson
 Address: 511 Beards Run Road
 Bridgeport, WV 26330
 Name: _____
 Address: _____
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: See Attachment
 Address: _____

MINERAL OWNER(s)
 Name: See Attachment
 Address: _____

*please attach additional forms if necessary

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Notice is hereby given:

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

State: West Virginia	Approx. Latitude & Longitude: 39.2526781 & -80.189049
County: Taylor	Public Road Access: CR 17, Oral Lake Road
District: Flemington	Watershed: Simpson Creek
Quadrangle: Rosemont	Generally used farm name: Johnson

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 *R. Schweitzer*
 Telephone: 724-584-1192
 Email: rschweitzer@arsenalresources.com

Address: 6031 Wallace Road Ext Suite 300
 Wexford PA 15090
 Facsimile: 1.800.428.0981

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.

**Arsenal Resources
Johnson TFP 40**

WW-6A3 Notice of Entry for Plat Survey, Attachment (Page 1 of 2)

Mineral Owner(s):

Richard Paul Whiteman & Carolyn Sue Moninger
721 James Street
Bridgeport, WV 26330

Dulcie B. Starkey C/O Jack Bartlett
1174 Wild Ginger Lane
Orange Park, FL 32763

Richards Resources
608 Independence Road
Salem, WV 26426

Bryan K. Wilson etal
PO Box 117
Anmoore, WV 26323

Betty J. Sutton C/O Joseph Sutton
919 Milam Street STE 2400
Houston, TX 77002

Heidi Bartlett Wiedebusch
312 Jackson Avenue
Morgantown, WV 26501

Glenn Ray Watkins
RR 2 Box 328C
Mount Clare, WV 26408

Ernestine White Trust (Judith L. Luce Trustee)
309 Balsam Dr.
Severna Park, MD 21146

Lenore Lawson C/O Kay Davis
1255 Lunbeck Road
Chillicothe, OH 45601

Jo Ann Rose
638 Hampton Woods Drive
Marion, OH 43302

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**Arsenal Resources
Johnson TFP 40**

WW-6A3 Notice of Entry for Plat Survey, Attachment (Page 2 of 2)

Mineral Owner(s) (continued):

Nancy Lee Munn
528 Hopetown Road
Chillicothe, OH 45601

Mike Ross Inc & IL Morris
PO Box 219
Coalton, WV 26257

Sandra K. Wilson
31 Woodburn Drive
Fairmont, WV 26554

Coal Owner or Lessee:

CoalQuest Development, LLC
Attn: Chuck Duckworth
100 Tygart Drive
Grafton, West Virginia 26354

Consolidated Coal Company
1000 Consol Energy Drive
Canonsburg, PA 15317

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 3/16/22 Date Permit Application Filed: 3/17/22

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Renee Johnson Name: _____
Address: 511 Beards Run Road Address: _____
Bridgeport WV 26330

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 571690.472
County: Taylor Northing: 435796.714
District: Flemington Public Road Access: CR 17, Oral Lake Road
Quadrangle: Rosemont Generally used farm name: Johnson
Watershed: Simpson Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Arsenal Resources *R. Schweitzer* Address: 6031 Wallace Road Ext Suite 300
Telephone: 724-584-1192 Wexford PA 15090
Email: rschweitzer@arsenalresources.com Facsimile: 1.800.428.0981

Oil and Gas Privacy Notice:

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

D. Alan Reed, P.E.
State Highway Engineer

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

March 4, 2022

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 Johnson Pad, Taylor County
Johnson TFP 40 #201 Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-1123 which has been issued to ARSENAL Resources for access to the State Road for a well site located off Harrison County Route 17 SLS MP 2.79.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a DISTRICT WIDE 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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Ross Schweitzer
ARSENAL Resources
CH, OM, D-4
File

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4709101367

Well Name Johnson TFP 40 201

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

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NO-HORRISON FOR CONSTRUCTION

EROSION & SEDIMENT CONTROL PLAN

JOHNSON TFP 40 WELL SITE HARRISON AND TAYLOR COUNTY, WEST VIRGINIA FOR



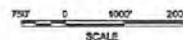
ISSUED FOR CONSTRUCTION



JOB SUMMARY			
PARTIAL	ACREAGE	PILOTS	ACREAGE
COUNTRY ROUTE 17 HIGHTS VALLEY ROAD	0.03	WRAKED DRAIN (E)	2.01
141 COLUMBIAN TROY & CYNTHIA R RD 35 511 0000-0000 0000	5.40	WRAKED DRAIN (E)	1.75
ROSWOODER AREA 40	5.76	JOHNSON BENT	3.17
TW 311 P 03 PRR 30 21 00 30 00 1275		JOHNSON BENT	12.00
TOTAL			24.93

THE PAD AND LID (INCLUDING ERS CONTROL FEATURES) IS WITHIN 100 FEET OF A PERENNIAL STREAM OR WETLAND.
 THE PAD AND LID (INCLUDING ERS CONTROL FEATURES) IS NOT WITHIN 200 FEET TO A NATURALLY PROLONGING TRIBUTARY STREAM.
 THE PAD AND LID (INCLUDING ERS CONTROL FEATURES) IS NOT WITHIN 1000 FEET TO A CIRCUMFERENTIAL RIVER OR PUBLIC WATER SUPPLY.
 THE WELL IS NOT WITHIN 200 FEET TO AN EXISTING WATER WELL OR DEVELOPED SCREEN.
 THE CENTER OF THE PAD IS AT LEAST 100 FEET FROM AN OCCUPIED DWELLING STRUCTURE.
 THE CENTER OF THE PAD IS AT LEAST 100 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET.

JOB SUMMARY	
ACCESS ROAD	11.17
WELL PAD	6.30
TAKE PAD	3.10
STOCKPILE	4.50
ROCKPILE AREA	1.40
TOTAL	26.47
DISC CLEARING	15.99



PROJECT NO. 17078-007

MARCH 2021

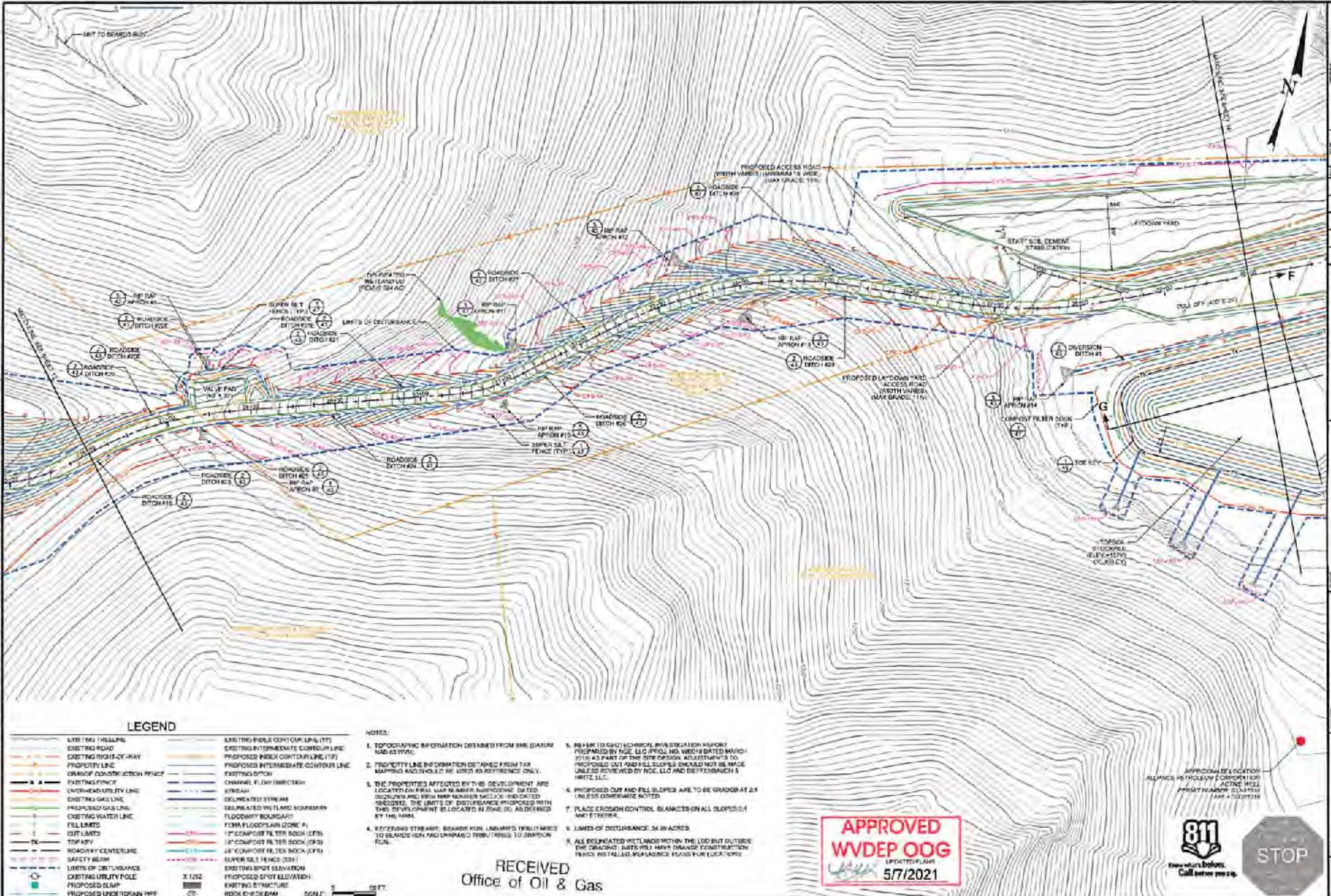
DIEFFENBAUCH & HRITZ, LLC

*Design Approved
3-9-21*

DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3 - 5	EXISTING SITE PLAN
6 - 8	SOILS PLAN
9 - 11	OVERALL SITE PLAN
12 - 19	PROPOSED SITE PLAN
18 - 22	ACCESS ROAD PROFILE
23 - 25	ACCESS ROAD CROSS-SECTIONS
26	WELL PAD CROSS-SECTIONS
27	TANK / MANHOLE PAD CROSS-SECTIONS
28 - 29	STOCKPILE CROSS-SECTIONS
30 - 33	UTILITY RELOCATION PROFILE
34	WATERLINE RELOCATION
35 - 37	SITE REVEGETATION PLAN
38 - 40	SITE RESTORATION PLAN
41 - 43	CONSTRUCTION DETAILS
44	GEOTECHNICAL DETAILS
47 - 49	SEI DETAILS
50	QUANTITY SUMMARY

17078-007
 JOHNSON TFP40 WELL SITE
 TITLE SHEET
 1
 DIEFFENBAUCH & HRITZ, LLC
 1000 CHERRY STREET, SUITE 100
 HARRISON, WEST VIRGINIA 25925
 P: 304.526.0000 F: 304.526.0000
 ARSENAL RESOURCES
 17872
 STATE OF WEST VIRGINIA
 PROFESSIONAL ENGINEER
 ERIC N. STEWART
 REGISTERED
 3/2/21

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LEGEND

- | | |
|---|---|
| <ul style="list-style-type: none"> --- EXISTING TALLEPS --- EXISTING ROAD --- EXISTING ROVER-OF-WAY --- PROPERTY LINE --- GRADE/CONCRETE APPROACH --- EXISTING FENCE --- OVERHEAD UTILITY LINE --- EXISTING GAS LINE --- PROPOSED GAS LINE --- EXISTING WATER LINE --- FILL LIMITS --- OUT LIMITS --- TOP KEY --- ROADWAY CENTERLINE --- SAFETY BEAM --- LIMITS OF DISTURBANCE --- EXISTING UTILITY POLE --- PROPOSED SLUMP --- PROPOSED UNDERDRAIN PIPE | <ul style="list-style-type: none"> --- EXISTING BOLD CONTOUR LINE (10' INT) --- EXISTING INTERMEDIATE CONTOUR LINE --- PROPOSED BOLD CONTOUR LINE (10' INT) --- PROPOSED INTERMEDIATE CONTOUR LINE --- EXISTING DITCH --- CHANNEL FLOW DIRECTION --- WINDSHAW --- DELINEATED STREAM --- DELINEATED STREAM BOUNDARY --- FLOODWAY BOUNDARY --- FORM FLOODPLAIN ZONE #1 --- 1" COMPOST FILTER SOCK (CFS) --- 2" COMPOST FILTER SOCK (CFS) --- SUPER SALT FENCE (SSF) --- EXISTING SPOT ELEVATION --- PROPOSED SPOT ELEVATION --- EXISTING STRUCTURE --- ROCK CHECK DAM |
|---|---|

NOTES:

1. TOPOGRAPHIC INFORMATION OBTAINED FROM THE DATUM HAD AS SHOWN.
2. PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPS AND SHOULD BE USED AS REFERENCE ONLY.
3. THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON PLOTS MAP IN SERIES AUSTIN COUNTY, DATED 2002-2010 AND HIGH MAP NUMBER SAC1201 AND DATED 2002-2010. THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT IS LOCATED IN ROW, CO. AS DESIGNATED BY THE HRA.
4. EXISTING STREAMS, BRANCHES, RIBS, UNARMED TRIBUTARIES TO BRANCHES AND UNARMED TRIBUTARIES TO BRANCHES, RUN.
5. REFER TO GEOLOGICAL INVESTIGATION REPORT PREPARED BY NGE, LLC (PPOIL NO. WED-18 DATED MAR-01-2018) AS PART OF THE SOF DESIGN. RESISTANCE TO PROPOSED CUT AND FILL SLOPES SHOULD NOT BE MADE UNLESS REVIEWED BY NGE, LLO AND DIEFFENBAUGH & HERTZ, LLC.
6. PROPOSED CUT AND FILL SLOPES ARE TO BE GRADED AT 2:1 (UNLESS OTHERWISE NOTED).
7. PLACE EROSION CONTROL BLANKETS ON ALL SLOPES 1:1 AND THEREAFTER.
8. LIMITS OF DISTURBANCE 30 ACRES
9. ALL DELINEATED WETLANDS WITHIN THE LOD BUT OUTSIDE THE DRAGNET LIMITS WILL HAVE DRAINAGE CONSTRUCTION FENCE INSTALLED. MAINTAINANCE PLANS FOR LOCKED WELLS.

X:1250

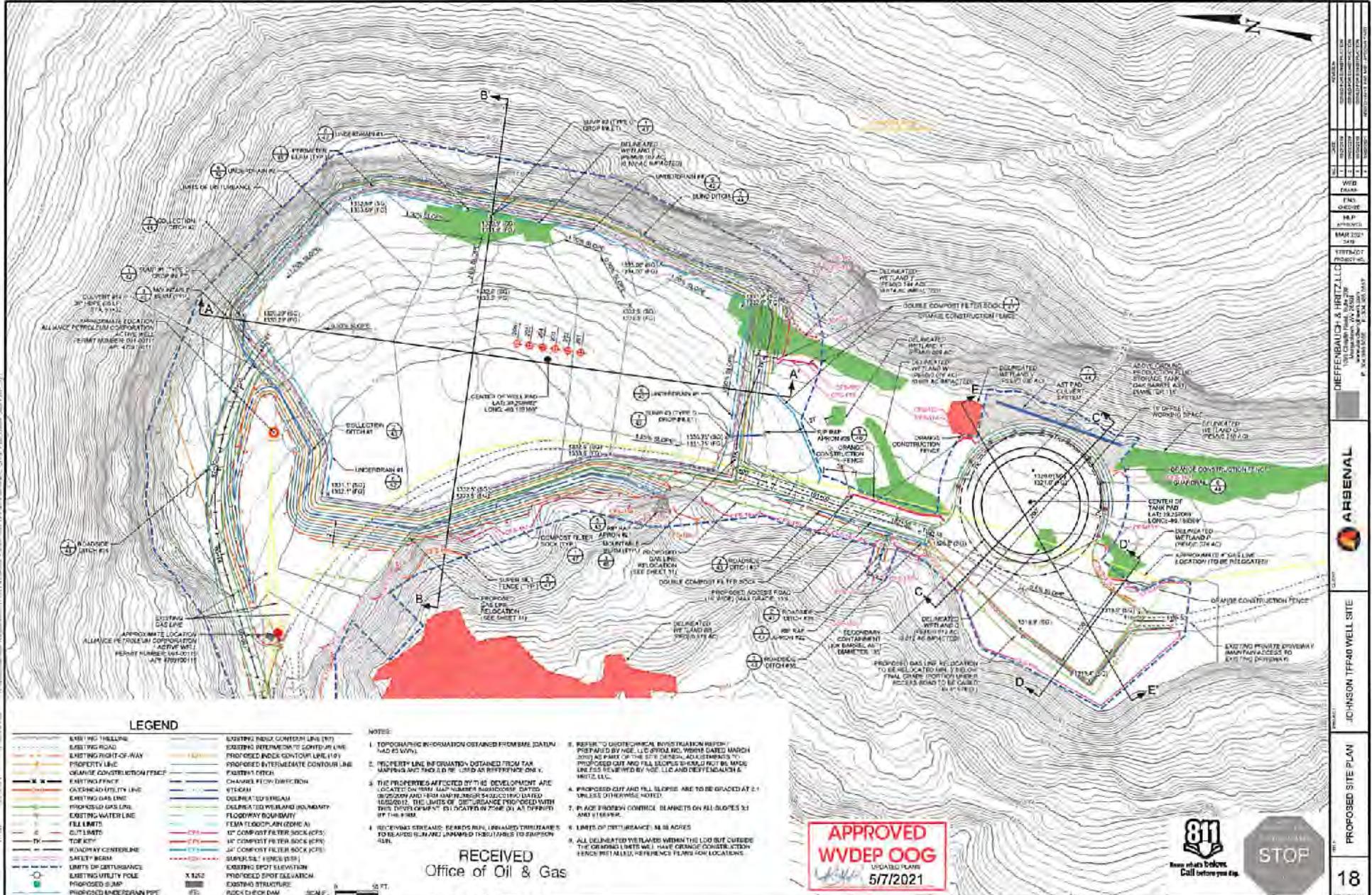
SCALE: 1" = 50 FT

APPROVED
WVDEP OOG
UPDATED PLANS
5/7/2021



DATE	05/11/2021	SCALE	X:1250	PROJECT	JOHNSON TFP-40 WELL SITE	CLIENT	DIEFFENBAUGH & HERTZ, LLC	PROJECT NO.	13
DESIGNER	WV DEPARTMENT OF ENVIRONMENTAL PROTECTION	DATE	05/11/2021	PROJECT	JOHNSON TFP-40 WELL SITE	CLIENT	DIEFFENBAUGH & HERTZ, LLC	PROJECT NO.	13
DATE	05/11/2021	SCALE	X:1250	PROJECT	JOHNSON TFP-40 WELL SITE	CLIENT	DIEFFENBAUGH & HERTZ, LLC	PROJECT NO.	13
DATE	05/11/2021	SCALE	X:1250	PROJECT	JOHNSON TFP-40 WELL SITE	CLIENT	DIEFFENBAUGH & HERTZ, LLC	PROJECT NO.	13

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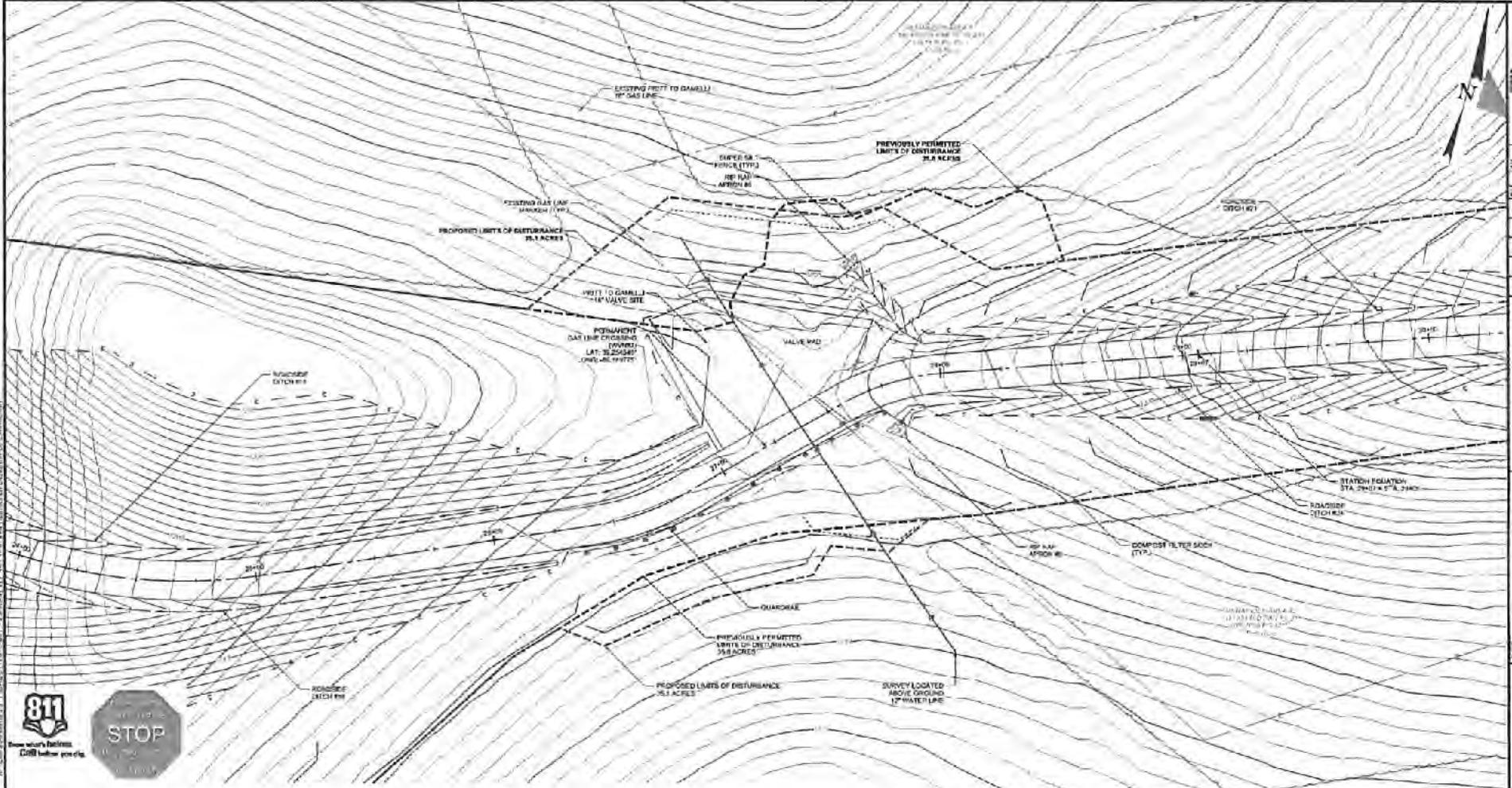


DATE	DESCRIPTION
11/15/2017	PRELIMINARY DESIGN
12/15/2017	FINAL DESIGN
01/15/2018	CONSTRUCTION PERMITS
02/15/2018	CONSTRUCTION START
03/15/2018	CONSTRUCTION COMPLETE
04/15/2018	OPERATIONAL
05/15/2018	OPERATIONAL
06/15/2018	OPERATIONAL
07/15/2018	OPERATIONAL
08/15/2018	OPERATIONAL
09/15/2018	OPERATIONAL
10/15/2018	OPERATIONAL
11/15/2018	OPERATIONAL
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RECEIVED
Office of Oil & Gas
MAR 21 2022

APPROVED
WV DEP OOG
5/7/2021

811
Know what's below.
Call before you dig.
STOP



LEGEND

---	EXISTING TRAIL LINE	---	EXISTING ROCK CONTOUR LINE (10')
---	EXISTING ROAD	---	EXISTING INTERMEDIATE CLIP CONTOUR LINE (10')
---	EXISTING RIGHT-OF-WAY	---	PROPOSED INTERMEDIATE CLIP CONTOUR LINE (10')
---	PROPERTY LINE	---	PROPOSED INTERMEDIATE CLIP CONTOUR LINE (10')
---	ORANGE CONSTRUCTION FENCE	---	EXISTING DITCH
---	EXISTING FENCE	---	CHANNEL FLOW DIRECTION
---	OVERHEAD UTILITY LINE	---	ETHIOPIAN
---	EXISTING GAS LINE	---	DELIMITED STREAM
---	PROPOSED GAS LINE	---	DELIMITED WETLAND BOUNDARY
---	EXISTING WATER LINE	---	RIGHT-OF-WAY BOUNDARY
---	FILL LIMITS	---	FEMA FLOODPLAIN (ZONE A)
---	CLIP LIMITS	---	12" COMPOSITE FILTER ROCK (C12)
---	TOP SURF	---	18" COMPOSITE FILTER ROCK (C18)
---	ROADWAY SIGNAGE	---	24" COMPOSITE FILTER ROCK (C24)
---	SAFETY BERM	---	24" COMPOSITE FILTER ROCK (C24)
---	LIMITS OF DISTURBANCE	---	36" SBT FENCE (S36)
---	EXISTING UTILITY POLE	---	EXISTING SPOT ELEVATION
---	PROPOSED SUMP	---	PROPOSED SPOT ELEVATION
---	PROPOSED UNDERGAIN PIPE	---	EXISTING STRUCTURE
		---	ROCK CHECK DAM

NOTES

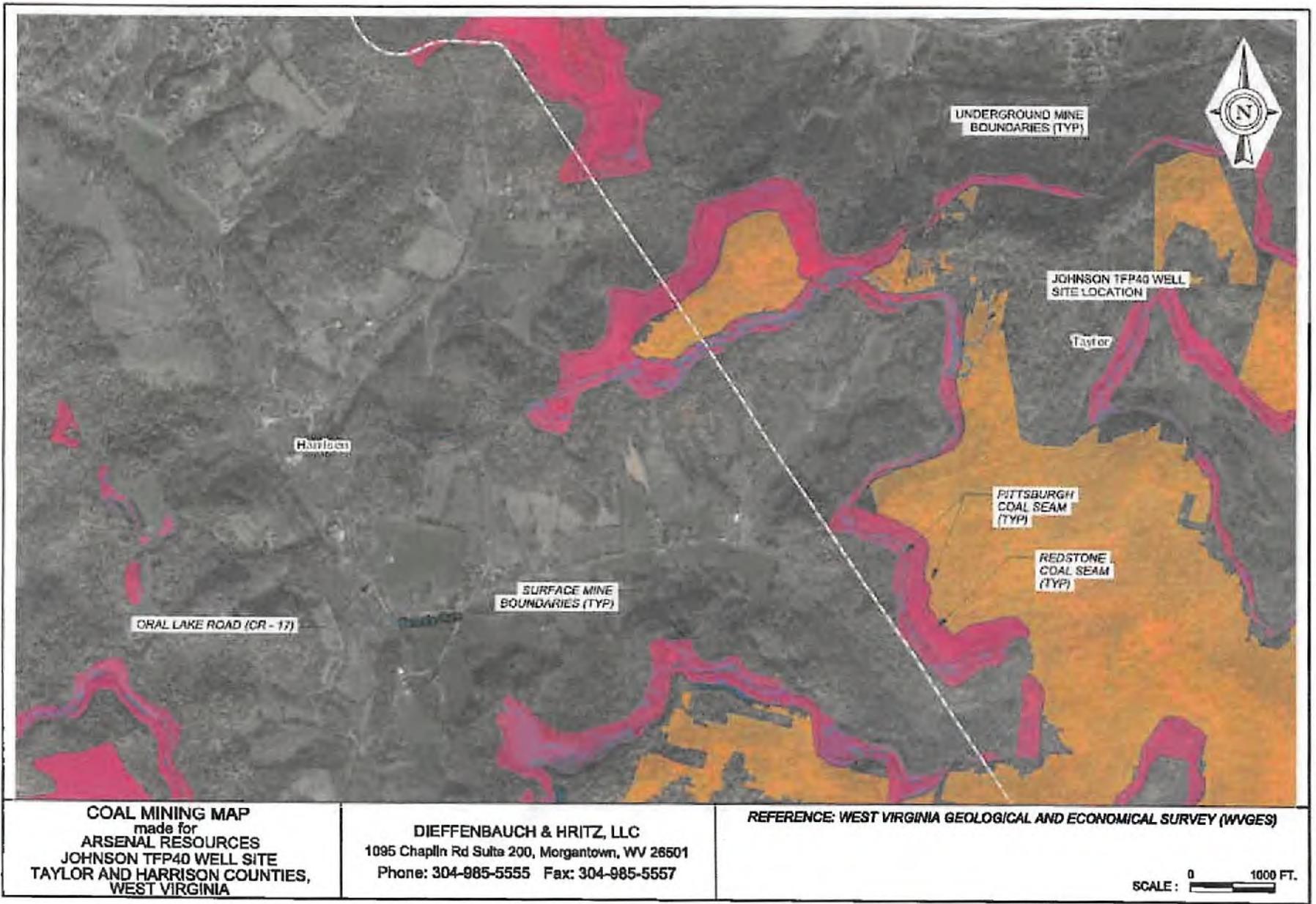
1. TOPOGRAPHIC INFORMATION OBTAINED FROM BUE (DATUM) AND NAD 83 (1993).
2. PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPING AND SHOWN BY LOCAL AS SURVEY LINE.
3. THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM MAP NUMBER NONCARRIE, DATED NOVEMBER AND FIRM MAP NUMBER SUCCEEDING LAND (MAY2012). THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT IS LOCATED IN ZONE (X) AS DENOTED IN THE FIRM.
4. RECEIVING STREAMS, BEARDS RUN, UNPAVED THROUGH ARE TO BEANS FURNISH, UNPAVED THROUGH ARE TO SIMPSON RUN.
5. REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY HSC, LLC (FIRM) ON 10/18/12 DATED MARCH 2013 AS PART OF THE SITE DESIGN ADJUSTMENTS TO PROPOSED CLIP AND FILL. BUFFER SHOULD NOT BE MADE UNLESS APPROVED BY HSC, LLC AND DIERFENBACH & HETZ, LLC.
6. PROPOSED CLIP AND FILL SLOPES ARE TO BE GRADIENT AT 2:1 UNLESS OTHERWISE NOTED.
7. PLACE EROSION CONTROL BLANKETS ON ALL SLOPES 5:1 AND STEEPER.
8. LIMITS OF DISTURBANCE 25.1 ACRES.
9. ALL DELIMITED WETLANDS WITHIN THE LOCALITY CROSSING THE ORANGE RIVER WILL HAVE ORANGE CONSTRUCTION FENCE INSTALLED, REFERENCE PLANS FOR LOCATIONS.

Kenneth Greynolds
 Digitally signed by Kenneth Greynolds
 DN: cn = Kenneth Greynolds, email = kgreynolds@hsc.com, ou = C, ou = HAZCO, ou = DMF
 Date: 2023.03.21 09:53:34 -0500

DIFFENBACH & HETZ, LLC
 1000 W. 10TH STREET
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 WILSONVILLE, OR 97148
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 FAX: 503.534.1235
 WWW.ARSENAL.COM

JOHNSON TRAIL WELL SITE
 EXHIBIT 1



COAL MINING MAP
 made for
ARSENAL RESOURCES
JOHNSON TFP40 WELL SITE
TAYLOR AND HARRISON COUNTIES,
WEST VIRGINIA

DIEFFENBAUCH & HRITZ, LLC
 1095 Chaplin Rd Suite 200, Morgantown, WV 26501
 Phone: 304-985-5555 Fax: 304-985-5557

REFERENCE: WEST VIRGINIA GEOLOGICAL AND ECONOMICAL SURVEY (WVGES)

SCALE: 0 1000 FT.

