



west virginia department of environmental protection

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

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

Thursday, December 8, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC
6031 WALLACE RD EXT., SUITE 101
WEXFORD, PA 15090

Re: Permit approval for JOHNSON TFP 40 206
47-091-01375-00-00

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

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

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a white background.

James A. Martin
Chief

Operator's Well Number: JOHNSON TFP 40 206
Farm Name: RENEE JOHNSON
U.S. WELL NUMBER: 47-091-01375-00-00
Horizontal 6A New Drill
Date Issued: 12/8/2022

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

WW-6B
(04/15)

4709101375
API NO. 47-091 - _____
OPERATOR WELL NO. 206
Well Pad Name: Johnson TFP 40

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: 206 ✓ 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 X Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow X Deep _____
Horizontal X _____

6) Existing Pad: Yes or No Yes

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- 0.5 psi/ft

8) Proposed Total Vertical Depth: 7,903.5 ft ✓

9) Formation at Total Vertical Depth: Marcellus Shale ✓ RECEIVED

10) Proposed Total Measured Depth: 26,550 ft ✓ Office of Oil and Gas

11) Proposed Horizontal Leg Length: 17,845 ft ✓ NOV 04 2022

12) Approximate Fresh Water Strata Depths: 38', 40', 49', 362', 670' ✓ WV Department of Environmental Protection

13) Method to Determine Fresh Water Depths: Offsetting wells reported water depths (091-00116, 091-00118, 091-00108, 091-00120) ✓

14) Approximate Saltwater Depths: 1980' ✓

15) Approximate Coal Seam Depths: Elk Lick-322.5', Harlem-398.5', Bakerstown-477.5', Brush Creek-577.5', Upper Freeport-630.5', Lower Freeport-692.5', Upper Kittanning-780.5', Middle Kittanning-825.5', Lower Kittanning-845.5', Clarion-876.5'

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: _____

WW-6B
(04/15)

4709101375
API NO. 47- 091 - _____
OPERATOR WELL NO. 206
Well Pad Name: Johnson TFP 40

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	Used		94	120	120 ✓	CTS ✓
Fresh Water	13.375	New	J-55	54.5	725	725 ✓	CTS ✓
Coal							✓
Intermediate	9.625	New	J-55	40	2100	2100 ✓	CTS
Production	5.5	New	P-110	20	26,550	26,550 ✓	TOC @ 1,950
Tubing							
Liners							

Kenneth Greynolds Digitally signed by Kenneth Greynolds
DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas
Date: 2022.10.24.13:18:12 -0400

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/L, 3% CaCl2	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A/L, 3% CaCl2	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A/L, 3% CaCl2	1.29
Production	5.5	8.5-8.75	0.361	15,920	11,500	Class A/L Poz	1.29/1.34
Tubing					5,000		
Liners					N/A		

PACKERS

RECEIVED
Office of Oil and Gas

Kind:				NOV 04 2022
Sizes:				WV Department of Environmental Protection
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 pilot hole depth, then trip out of hole to run wireline logs. A cement kick-off plug will then be set from bottom of the pilot hole to the designed KOP. We will then drill off the cement plug and 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.

RECEIVED
Office of Oil and Gas

NOV 04 2022

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 33.56 WV Department of
Environmental Protection

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 2,300'; there will be no centralizers from 2,300 to surface.

24) Describe all cement additives associated with each cement type:

24" will be circulated to surface. The 13 3/8" casing will be cemented to surface with Class A/L cement and no greater than 3% CaCl (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A/L cement, & no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 1950' (+/- 150' above the casing shoe for the 9 5/8") with Class A/L Poz cement retarded (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right angle" set) during the plastic phase of the cement set-up.

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

4709101375

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

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

12/09/2022



4709101375

west virginia department of environmental protection

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

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

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

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

ORDER NO. 2022-14

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

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

CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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


James Martin, Chief
Office of Oil and Gas

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

12/09/2022



Other Names:	Johnson TFP40 206
Surface Location:	LAT 39.2587051N x Long -80.1690616 W
Bottom Hole Location:	LAT 39.209166N x Long -80.1548148W
Directional Plan Vs.	SDI #2
Total Depth (MD)	26,549

County:	Taylor		
State:	WV		
AFE #:	000439	API #:	0
RKB:	26		
Ground Level:	1,333		

Logs	Significant Formations (TVD)	Depth (ft) MD	Depth (ft) TVD	Hole Size	Casing and Cement	Mud	Directional & Surveys Drig /Csg Point																					
None	Section 1																											
		120	120	24" 94# H-40 BTC			Vertical																					
None	Section 2			17 1/2" (PDC)		Floc Water																						
Possible CBL after cement job		750	750	13 3/8" 54.5# J-55 LTC			Vertical																					
None	Section 3			12 1/4" (PDC)		Floc Water																						
		2,125	2,125	9 5/8" 40# J-55 LTC			Vertical																					
Wireline: None Mudloggers: KOP - TD KOP @ 7,031	Section 4																											
<table border="1"> <thead> <tr> <th>Mud Data</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>Floc Water</td> <td>120</td> <td>2125</td> </tr> <tr> <td>Floc Water</td> <td>2125</td> <td>7,031</td> </tr> <tr> <td>11.5- 12.0 ppg SOBMs</td> <td>7,031</td> <td>26,549</td> </tr> </tbody> </table>								Mud Data	From	To	Floc Water	120	2125	Floc Water	2125	7,031	11.5- 12.0 ppg SOBMs	7,031	26,549									
Mud Data	From	To																										
Floc Water	120	2125																										
Floc Water	2125	7,031																										
11.5- 12.0 ppg SOBMs	7,031	26,549																										
<table border="1"> <thead> <tr> <th>Bit Data</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>17-1/2" & 12 1/4" PDC</td> <td>120</td> <td>2,125</td> </tr> <tr> <td>8- 3/4" (PDC)</td> <td>2,125</td> <td>7,031</td> </tr> <tr> <td>8- 1/2" (PDC)</td> <td>8,177</td> <td>26,549</td> </tr> </tbody> </table>								Bit Data	From	To	17-1/2" & 12 1/4" PDC	120	2,125	8- 3/4" (PDC)	2,125	7,031	8- 1/2" (PDC)	8,177	26,549									
Bit Data	From	To																										
17-1/2" & 12 1/4" PDC	120	2,125																										
8- 3/4" (PDC)	2,125	7,031																										
8- 1/2" (PDC)	8,177	26,549																										
<table border="1"> <thead> <tr> <th>Directional Data</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>KOP</td> <td>7,443</td> <td></td> </tr> <tr> <td>Curve</td> <td>9°/100 ft</td> <td></td> </tr> <tr> <td></td> <td>Angle</td> <td>89.5</td> </tr> <tr> <td></td> <td>Azi</td> <td>160</td> </tr> <tr> <td>EOB</td> <td>MD</td> <td>8177</td> </tr> <tr> <td></td> <td>TVD</td> <td>7762</td> </tr> </tbody> </table>								Directional Data			KOP	7,443		Curve	9°/100 ft			Angle	89.5		Azi	160	EOB	MD	8177		TVD	7762
Directional Data																												
KOP	7,443																											
Curve	9°/100 ft																											
	Angle	89.5																										
	Azi	160																										
EOB	MD	8177																										
	TVD	7762																										
<table border="1"> <thead> <tr> <th>Cement</th> <th colspan="3">Production</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>13.8</td> <td>1.33</td> <td>TBD</td> </tr> <tr> <td>Tail</td> <td>15</td> <td>1.3</td> <td>TBD</td> </tr> <tr> <td>TOC</td> <td>1975</td> <td></td> <td></td> </tr> </tbody> </table>								Cement	Production			Lead	13.8	1.33	TBD	Tail	15	1.3	TBD	TOC	1975							
Cement	Production																											
Lead	13.8	1.33	TBD																									
Tail	15	1.3	TBD																									
TOC	1975																											
				5 1/2" 20# P-110HP Weld Tube GBCD																								

Revision 1
Date Last Revised: 18-Oct-22
Ross Schweitzer
Note: Not drawn to scale
Cement Outside Casing Seal Assembly in Annulus

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of Environmental Protection
12/09/2022

WW-9
(4/16)

4709101375

API Number 47 - 091 -
Operator's Well No. Johnson TFP 40 206

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 be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

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

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

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

Additives to be used in drilling medium? Bentonite, soap & polymer sticks, soda ash, sodium bicarbonate, defoamer, base oil, emulsifiers, lime, barite

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

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

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

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

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) Dave Boyer

Company Official Title Director of Geology & Development Planning

Subscribed and sworn before me this 2nd day of November, 2022

[Signature]

Notary Public Commonwealth of Pennsylvania - Notary Seal
Annmarie O'Connor, Notary Public
Allegheny County
My commission expires March 17, 2026
Commission number 200834
Member, Pennsylvania Association of Notaries

My commission expires 3/17/2026

12/03/2022

Arsenal Resources

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 Greynolds
Digitally signed by Kenneth Greynolds
DN: CN = Kenneth Greynolds, email = Kenneth.L.Greynolds@wv.gov, C = US, O = WVDEP DU = Oil and Gas
Date: 2022.10.24 13:17:24 -0400

RECEIVED
Office of Oil and Gas

NOV 04 2022

Comments: _____

WV Department of
Environmental Protection

Title: _____ Date: _____

Field Reviewed? () Yes () No

RECEIVED
Office of Oil and Gas

NOV 04 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 206.

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.

4709101375

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection



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, 206 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	Lower Kittanning Coal	NA
Polino Enterprises Inc Coalquest 11A	001-02879	Summit Appalachia Operating Company LLC	Existing	39.225878	-80.160416	1014	Lower Kittanning Coal	NA
Polino Enterprises Inc Coalquest 12	001-02875	Summit Appalachia Operating Company LLC	Existing	39.22486	-80.160975	960	Lower Kittanning Coal	NA
O & A Goodwin 1	001-00553	Diversified Production LLC	Existing	39.215094	-80.156066	4718	Riley, Benson	NA

RECEIVED
 Office of Oil and Gas
 NOV 04 2022
 WV Department of
 Environmental Protection

4709101375

4709101375



ARSENAL
R E S O U R C E S

SITE SAFETY PLAN

JOHNSON TFP40 PAD, WELL #206

911 Address:

**4006 Green Valley Rd
Bridgeport, WV 26330**

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: cn = Kenneth Greynolds, email = Kenneth.L.
Greynolds@wv.gov, c = AD, o = WVDEP, ou = Oil and Gas
Date: 2022.10.31 09:51:57 -0400

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

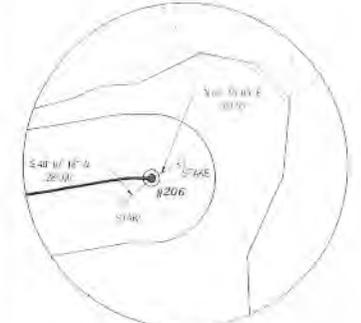
8,552'

822'

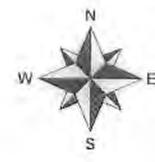
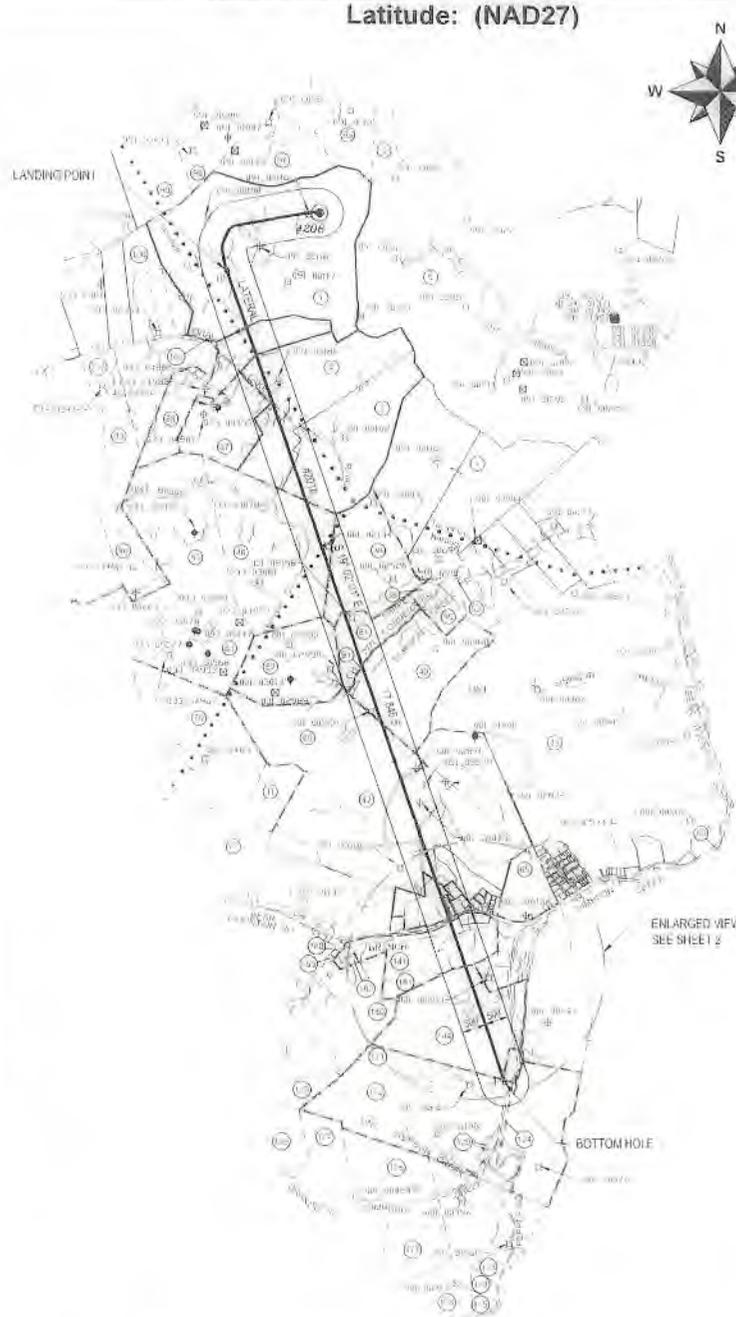
Latitude: (NAD27)



REFERENCES TO PROPOSED HORIZONTAL WELL SURFACE LOCATIONS NTS



REFERENCES TIES (NTS)



(NAD83-WVN) US SURVEY FT.	
TOP HOLE	N) 277046.720
	E) 1779051.660
LANDING POINT	
N)	275843.930
E)	1777134.310
BOTTOM HOLE	
N)	258974.110
E)	1782954.120
(NAD83-LAT/LONG) DECIMAL	
TOP HOLE	N) 39.258705
	E) -80.169062
LANDING POINT	
N)	39.255364
E)	-80.175801
BOTTOM HOLE	
N)	39.209166
E)	-80.154815
(UTM, NAD83) METER	
TOP HOLE	N) 4345814.993
	E) 571690.168
LANDING POINT	
N)	4345438.829
E)	571112.107
BOTTOM HOLE	
N)	4340328.624
E)	572970.639

Longitude: (NAD27)

12,033'

14,812'

- 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 for Taylor, Hamson, and Barbour 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#: 1 of 3
 SCALE: 1" = 4000'
 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* 10/21/2022
 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: OCTOBER 21, 2022
 OPERATOR'S WELL #: JOHNSON TFP-40 # 206
 API WELL #: 47 091 01375 H6A
 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

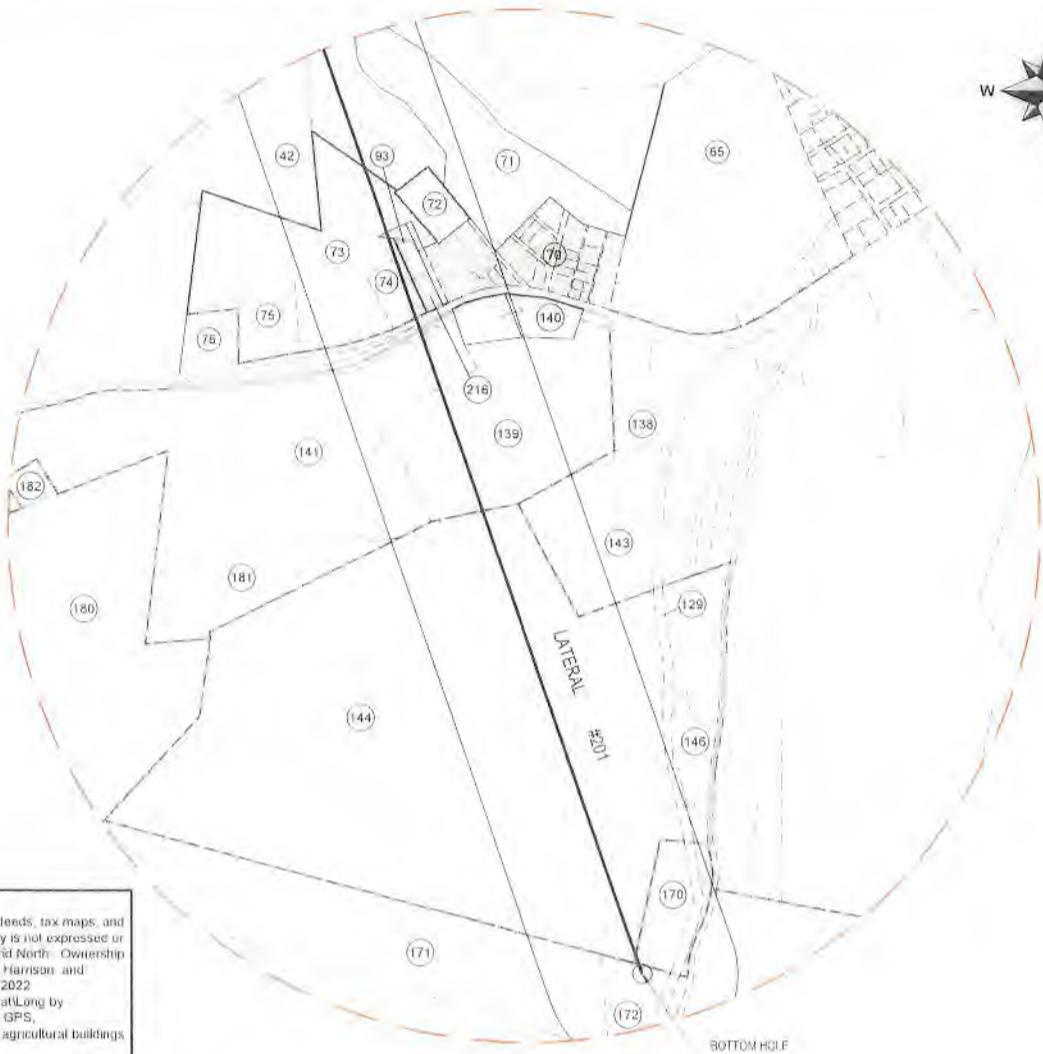
ELEVATION: 1,332.5
 QUADRANGLE: ROSEMONT WV
 ACREAGE: 284 ±
 ACREAGE: 284 ±

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: 26,549.6'

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)



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 for Taylor, Harrison, and Barbour County, West Virginia Date 2022
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.

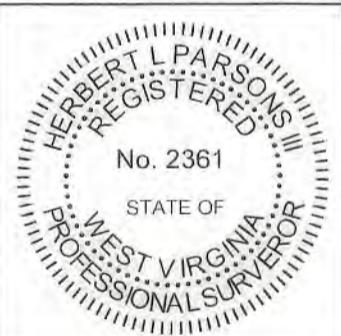
LEGEND

- PROPOSED WELL LATERAL
- PROPOSED WELL TIE LINE
- - - - - STREAM
- - - - - EXISTING ROAD
- - - - - BUFFER
- - - - - PROPERTY LINE
- - - - - MINERAL TRACT BOUNDARY
- - - - - COUNTY BOUNDARY LINE
- ## 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 3
 SCALE: 1" = 1000'
 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* 10/21/2022
 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: OCTOBER 21, 2022
 JOHNSON TFP-40
 OPERATOR'S WELL #: # 206
 API WELL #: 47 091 01375
 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 ±

12/09/2022

- 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: 26,549.6'
 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

SURFACE PARCEL OWNER INFORMATION			
ID#	DEP#	PARCEL NUMBER	OWNER NAME
1	033	17-15-0331-0027-0000	JOHNSON RENEE
88	033	17-15-0351-0010-0000	JOHNSON RENEE
4	033	17-15-0351-0012-0000	GCSTREAM LLC
3	033	17-15-0351-0013-0000	GCSTREAM LLC
86	033	17-15-0351-0023-0000	GCSTREAM LLC
39	001	01-09-0009-0001-0000	STEWART FARM LLC
81	001	01-09-0009-0019-0000	STEWART FARM LLC
40	001	01-09-0009-0020-0000	SEESE ROBERT & BRENDA HWS
80	001	01-09-0010-0002-0000	SMITH JO ANN V & GARY M BROWN JR (WS)
42	001	01-09-0011-0001-0000	POLINO ENTERPRISES INC
73	001	01-09-0012-0042-0000	FOSTER ERIC M & TRACI D WS
93	001	01-09-012C-0003-0000	ARBAUGH RITA
74	001	01-09-012C-0002-0000	FOSTER ERIC M & TRACI D WS
141	001	01-09-0012-0040-0000	ZBOSNIK DENNIS ALBIN
139	001	01-09-0012-0039-0000	ZBOSNIK DENNIS ALBIN
144	001	01-09-0012-0045-0001	MCCORD LLOYD JR & SANDRA
170	001	01-09-0012-0048-0000	HURST DELORES
172	001	01-09-0022-0001-0000	MARPLE JAMES D & GENA F DOWELL WS

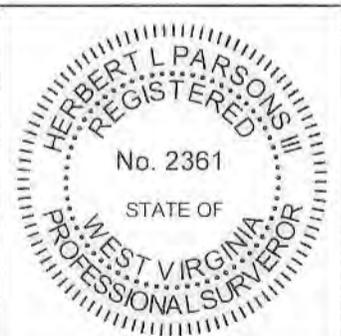
ADJOINER PARCEL OWNER INFORMATION			
ID#	DEP#	PARCEL NUMBER	OWNER NAME
2	001	01-09-0009-0002-0000	STEWART FARM LLC
5	091	46-04-0011-0001-0000	CFS FARMS LIMITED LIABILITY CO
6	091	46-04-0008-0022-0000	GRIPPIN JAMES S & ELAINE M & SURV
92		RIGHT-OF-WAY	COUNTY ROUTE 77/B BARBOUR CORNER
35	001	01-09-0009-0020-0001	SMALLWOOD RUSSELL & ANGELA WRS
38	001	01-09-0009-0003-0000	STEWART FARM LLC
41	001	01-09-0009-0012-0001	POLINO ENTERPRISES INC
43	001	01-09-0009-0022-0000	WOLFE LARRY, ROBERT WOLFE & STANLEY WOLFE ET UXES, HWS
60		RIGHT-OF-WAY	COUNTY ROUTE 1/6 BEAR MOUNTAIN ROAD
65	001	01-09-0012-0027-0000	WOLFE LARRY MICHAEL
70	001	PLAN OF LOTS	BROWNTON PLAN OF LOTS
71	001	01-09-0012-0001-0000	CHARLTON-FRYER AMANDA S & TIMOTHY R CHARLTON L/E
72	001	01-09-0012-0050-0000	SCHIMANSKY STEVEN & DEBRA HWS
75	001	01-09-0012-0043-0000	TRADER PAUL L
76	001	01-09-0012-0041-0000	TRADER PAUL & LORETTA WRS
77	001	01-09-0011-0001-0002	BECKWITH LUMBER CO INC
79	033	17-15-0351-0031-0000	GCSTREAM LLC
82	001	01-09-0010-0001-0000	SMITH JO ANN V & GARY M BROWN JR (WS)
83	033	17-15-0351-0021-0000	GCSTREAM LLC
84	033	17-15-0351-0022-0000	GCSTREAM LLC
85	033	17-15-0351-0024-0000	GCSTREAM LLC
87	033	17-15-0351-0011-0000	GCSTREAM LLC
89	033	17-15-0351-0007-0000	WARDER ORAN LEE & JANICE L
96	091	46-04-0008-0021-0000	MILLARD CARLYLE G
97	091	46-04-0007-0027-0000	CEQUEL III COMMUNICATIONS
98	091	46-04-0007-0009-0000	CEQUEL III COMMUNICATIONS
99	091	46-04-0007-0008-0000	FRUM CLINTON A (HEIRS)
100	033	17-15-0351-0009-0000	JOHNSON RENEE
124	001	RIGHT-OF-WAY	COUNTY ROUTE 16 PEPPER ROAD
129	001	01-09-0022-0004-0000	MARPLE JAMES D & GENA F DOWELL WS
138	001	01-09-0012-0035-0000	TR PENTECOSTAL CHURCH OF GOD C/O EDWARD L BARKLEY SR
140	001	01-09-0012-0040-0001	ZBOSNIK DENNIS KEITH
143	001	01-09-0012-0037-0000	LIPSCOMB ANNA G MCCORD
146	001	01-09-0012-0045-0003	MARCUM BUFFY & JEREMY HWS
171	001	01-09-0012-0046-0000	SHAHAN OKEY C
173	001	01-04-0003-0018-0000	SMITH HARLEY GLENN & NANCY E, HWS
174	001	01-04-0003-0017-0000	SMITH HARLEY GLENN & NANCY E, HWS
175	001	01-04-0003-0016-0002	SMITH HARLEY & NANCY
176	001	01-04-0003-0001-0000	GOSB JOHN PAUL
177	001	01-09-0022-0002-0001	GRUBE WALTER E & KATHRYN G
178	001	01-09-0022-0002-0000	GRUBE WALTER E & KATHRYN
179	001	01-04-0001-0016-0000	COLOMBO DINO S II
180	001	01-09-0011-0006-0000	BEAR MOUNTAIN COAL CO KEYBANK N.A.-TRUST REAL ESTATE
181	001	01-09-0012-0045-0000	LYONS MORGAN HILDA S REV DECLARATION TRST 6-30-98 ET AL
182	001	01-09-0012-0044-0000	ZBOSNIK DENNIS ALBIN
183	001	01-09-012D-0031-0000	KENNEDY DEBBIE J
189	001	01-09-0023-0001-0000	WALKER DONALD W JR
216	001	01-09-012C-0001-0000	LEHMAN DIANA LYNN
217	033	17-15-0351-0008-0000	WARDER ORAN LEE & JANICE L

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 for Taylor, Harrison, and Barbour County, West Virginia Date 2022.
 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
	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#: 3 of 3
 SCALE: 1" = 4000'
 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* 10/21/2022
 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 WV-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: OCTOBER 21, 2022
 JOHNSON TFP-40
 OPERATOR'S WELL #: # 206
 API WELL #: 47 091 01375
 STATE COUNTY PERMIT
 ELEVATION: 1,332.5
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 284 ±
 ACREAGE: 284 ±
 ESTIMATED DEPTH: TVD: 7,903.5' TMD: 26,549.6'
 DESIGNATED AGENT: NATHAN SKEEN
 ADDRESS: 633 MAIN STREET
 CITY: BRIDGEPORT STATE: WV ZIP: 26330

12/09/2022

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

8,562' 822'

Latitude: (NAD27)

(NAD83-WVN) US SURVEY FT.

TOP HOLE
 N) 277046.720
 E) 1779051.660
 LANDING POINT
 N) 275843.930
 E) 1777134.310
 BOTTOM HOLE
 N) 258974.110
 E) 1782954.120

(NAD83-LAT/LONG) DECIMAL

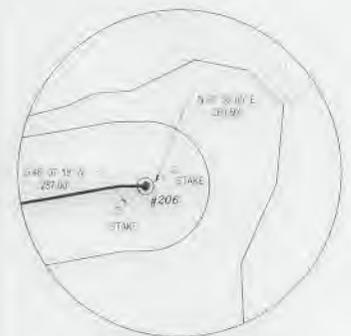
TOP HOLE
 N) 39.258705
 E) -80.169062
 LANDING POINT
 N) 39.255364
 E) -80.175801
 BOTTOM HOLE
 N) 39.209166
 E) -80.154815

(UTM, NAD83) METER

TOP HOLE
 N) 4345814.993
 E) 571690.168
 LANDING POINT
 N) 4345438.829
 E) 571112.107
 BOTTOM HOLE
 N) 4340328.624
 E) 572790.639



REFERENCES TO PROPOSED HORIZONTAL WELL SURFACE LOCATIONS NTS



REFERENCES TIES (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 for Taylor, Harrison, and Barbour County, West Virginia Date 2022
 2. Slate Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade GPS
 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
	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#: 1 of 3
 SCALE: 1" = 4000'
 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* 10/21/2022
 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: OCTOBER 21, 2022
 JOHNSON TFP-40
 OPERATOR'S WELL #: # 206
 API WELL #: 47 091 01375
 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: 26,549.6'

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)

Longitude: (NAD27)

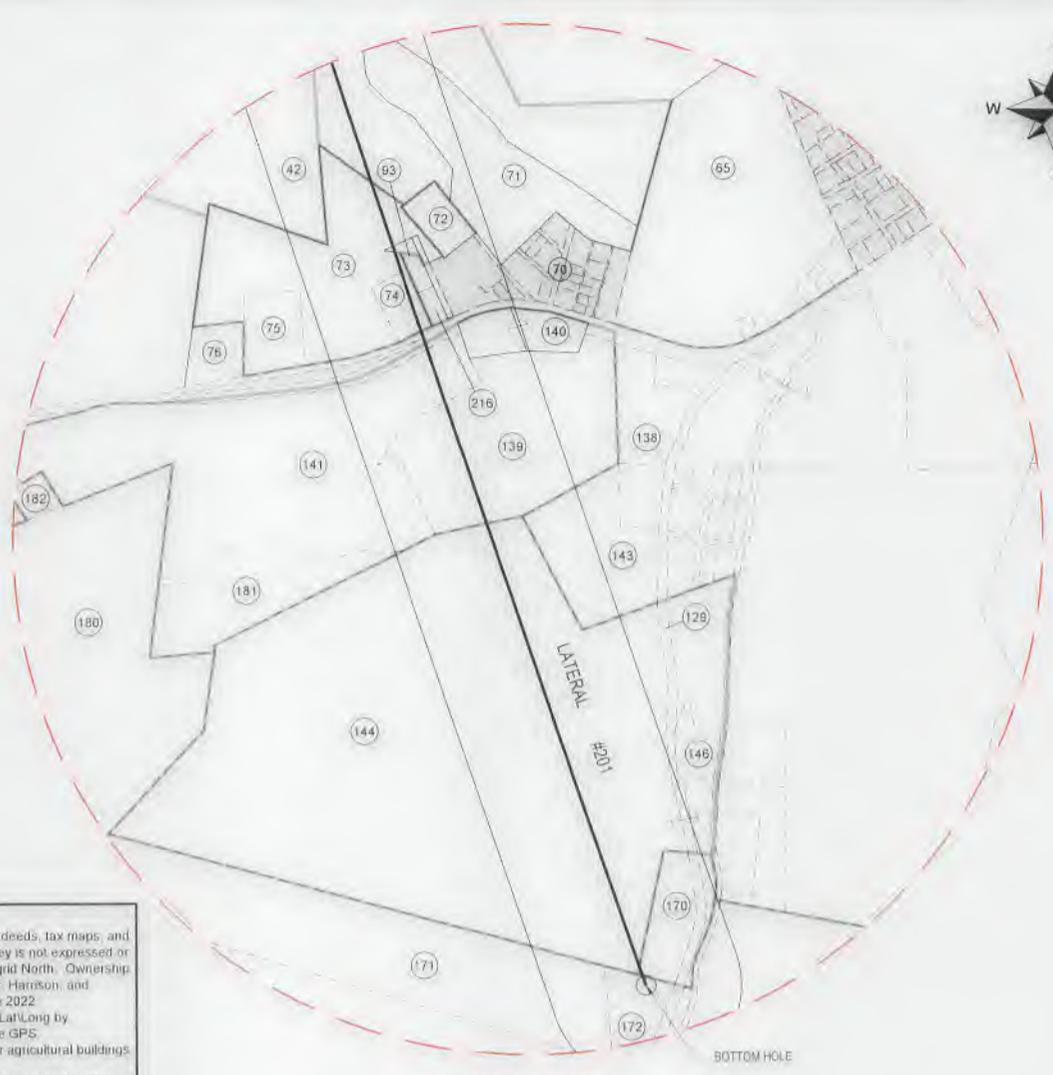
12,003'

14,812'



SURFACE HOLE (NAD27)
 LAT: 39.258613
 LONG: -80.169255

12/09/2022



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 for Taylor, Harrison, and Barbour County, West Virginia Date 2022.
2. State Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade GPS.
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
	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 3
 SCALE: 1" = 1000'
 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* 10/21/2022
 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: OCTOBER 21, 2022
 JOHNSON TFP-40
 OPERATOR'S WELL #: # 206
 API WELL #: 47 091 **01375**
 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 ±

12/09/2022

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: 26,549.6'
 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

SURFACE PARCEL OWNER INFORMATION				ADJOINER PARCEL OWNER INFORMATION			
ID#	DEP#	PARCEL NUMBER	OWNER NAME	ID#	DEP#	PARCEL NUMBER	OWNER NAME
1	033	17-15-0331-0027-0000	JOHNSON RENEE	2	001	01-09-0009-0002-0000	STEWART FARM LLC
88	033	17-15-0351-0010-0000	JOHNSON RENEE	5	091	46-04-0011-0001-0000	CFS FARMS LIMITED LIABILITY CO
4	033	17-15-0351-0012-0000	GCSTREAM LLC	6	091	46-04-0008-0022-0000	GRIPPIN JAMES S & ELAINE M & SURV
3	033	17-15-0351-0013-0000	GCSTREAM LLC	92		RIGHT-OF-WAY	COUNTY ROUTE 77/8 BARBOUR CORNER
86	033	17-15-0351-0023-0000	GCSTREAM LLC	35	001	01-09-0009-0020-0001	SMALLWOOD RUSSELL & ANGELA WRS
39	001	01-09-0009-0001-0000	STEWART FARM LLC	38	001	01-09-0009-0003-0000	STEWART FARM LLC
81	001	01-09-0009-0019-0000	STEWART FARM LLC	41	001	01-09-0009-0012-0001	POLINO ENTERPRISES INC
40	001	01-09-0009-0020-0000	SEESE ROBERT & BRENDA HWS	43	001	01-09-0009-0022-0000	WOLFE LARRY, ROBERT WOLFE & STANLEY WOLFE ET UXES, HWS
80	001	01-09-0010-0002-0000	SMITH JO ANN V & GARY M BROWN JR (WS)	60		RIGHT-OF-WAY	COUNTY ROUTE 1/6 BEAR MOUNTAIN ROAD
42	001	01-09-0011-0001-0000	POLINO ENTERPRISES INC	65	001	01-09-0012-0027-0000	WOLFE LARRY MICHAEL
73	001	01-09-0012-0042-0000	FOSTER ERIC M & TRACI D WS	70	001	PLAN OF LOTS	BROWNTON PLAN OF LOTS
93	001	01-09-012C-0003-0000	ARBAUGH RITA	71	001	01-09-0012-0061-0000	CHARLTON-FRYER AMANDA S & TIMOTHY R CHARLTON L/E
74	001	01-09-012C-0002-0000	FOSTER ERIC M & TRACI D WS	72	001	01-09-0012-0060-0000	SCHMANSKY STEVEN & DEBRA HWS
141	001	01-09-0012-0040-0000	ZBOSNIK DENNIS ALBIN	75	001	01-09-0012-0043-0000	TRADER PAUL L
139	001	01-09-0012-0039-0000	ZBOSNIK DENNIS ALBIN	76	001	01-09-0012-0041-0000	TRADER PAUL & LORETTA WRS
144	001	01-09-0012-0045-0001	MCCORD LLOYD JR & SANDRA	77	001	01-09-0011-0001-0002	BECKWITH LUMBER CO INC
170	001	01-09-0012-0048-0000	HURST DELORES	79	033	17-15-0351-0031-0000	GCSTREAM LLC
172	001	01-09-0022-0001-0000	MARPLE JAMES D & GENA F DOWELL WS	82	001	01-09-0010-0001-0000	SMITH JO ANN V & GARY M BROWN JR (WS)
				83	033	17-15-0351-0021-0000	GCSTREAM LLC
				84	033	17-15-0351-0022-0000	GCSTREAM LLC
				85	033	17-15-0351-0024-0000	GCSTREAM LLC
				87	033	17-15-0351-0011-0000	GCSTREAM LLC
				89	033	17-15-0351-0007-0000	WARDER ORAN LEE & JANICE L
				96	091	46-04-0008-0021-0000	MILLARD CARLYLE G
				97	091	46-04-0007-0027-0000	CEQUEL III COMMUNICATIONS
				98	091	46-04-0007-0009-0000	CEQUEL III COMMUNICATIONS
				99	091	46-04-0007-0008-0000	FRUM CLINTON A (HEIRS)
				100	033	17-15-0351-0009-0000	JOHNSON RENEE
				124	001	RIGHT-OF-WAY	COUNTY ROUTE 16 PEPPER ROAD
				129	001	01-09-0022-0004-0000	MARPLE JAMES D & GENA F DOWELL WS
				138	001	01-09-0012-0035-0000	TR PENTECOSTAL CHURCH OF GOD C/O EDWARD L BARKLEY SR
				140	001	01-09-0012-0040-0001	ZBOSNIK DENNIS KEITH
				143	001	01-09-0012-0037-0000	LIPSCOMB ANNA G MCCORD
				146	001	01-09-0012-0045-0003	MARCUM BUFFY & JEREMY HWS
				171	001	01-09-0012-0046-0000	SHAHAN OKEY C
				173	001	01-04-0003-0018-0000	SMITH HARLEY GLENN & NANCY E. HWS
				174	001	01-04-0003-0017-0000	SMITH HARLEY GLENN & NANCY E. HWS
				175	001	01-04-0003-0016-0002	SMITH HARLEY & NANCY
				176	001	01-04-0003-0001-0000	GOSS JOHN PAUL
				177	001	01-09-0022-0002-0001	GRUBE WALTER E & KATHRYN G
				178	001	01-09-0022-0002-0000	GRUBE WALTER E & KATHRYN
				179	001	01-04-0001-0016-0000	COLOMBO DINO S II
				180	001	01-09-0011-0006-0000	BEAR MOUNTAIN COAL CO KEYBANK N.A.-TRUST REAL ESTATE
				181	001	01-09-0012-0045-0000	LYONS MORGAN H&HILDA S REV DECLARATION TRST 6-30-98 ET AL
				182	001	01-09-0012-0044-0000	ZBOSNIK DENNIS ALBIN
				183	001	01-09-012D-0031-0000	KENNEDY DEBBIE J
				189	001	01-09-0023-0001-0000	WALKER DONALD W JR
				216	001	01-09-012C-0001-0000	LEHMAN DIANA LYNN
				217	033	17-15-0351-0008-0000	WARDER ORAN LEE & JANICE L

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 for Taylor, Harston, and Barbour County, West Virginia Date 2022
2. State Plane Coordinates & NAD83 datum by differential submeter mapping grade GPS.
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
● #	PROPOSED WELL HEAD
●	EXISTING WELL HEAD (Active)
●	EXISTING WELL HEAD (Abandoned)
●	EXISTING WELL HEAD (Abandoned)
●	EXISTING WELL HEAD (Never Drilled)
○	EXISTING WELL HEAD (Cased Drill)
○	LANDING POINT/BOTTOM HOLE
#	SURFACE OWNER

FILE#: 22078-001
SHEET#: 3 of 3
SCALE: 1" = 4000'
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* 10/21/2022
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 WV-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: OCTOBER 21, 2022
JOHNSON TFP-40
OPERATOR'S WELL #: # 206
API WELL #: 47 091 **D1375**
STATE COUNTY PERMIT

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

ESTIMATED DEPTH: TVD: 7,903.5' TMD: 26,549.6'

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

12/09/2022

**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 and Gas

NOV 04 2022

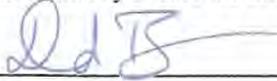
WV Department of
Environmental Protection

**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: 

By:

Dave Boyer

Its:

Director of Geology & Development Planning

Attachment to WW-6A1, Johnson 206

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	Union Drilling Inc	12.50%	32/220 and 1030/412	284
	Union Drilling Inc	Equitable Resources Exploration		1189/1209	
	Equitable Resources Exploration	Equitable Resources Energy Co		1199/642	
	Equitable Resources Energy Co	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
88 00007766	CHARLES H ROBERTS	MAR KEY LLC	15.00%	1596/493	85.1375

RECEIVED
 Office of Oil and Gas
 NOV 04 2022
 WV Department of
 Environmental Protection

4709101375

Attachment to WW-6A1, Johnson 206

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
88 00007864	MIKE ROSS INC & WACO OIL & GAS INC	MAR KEY LLC	15.00%	1599/315	85.1375
88 00007990	CHAD W JOHNSON	MAR KEY LLC	14.00%	1604/287	85.1375
4 AND 3 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	
4 AND 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	
86 (00003555)	Lyda Drainer	Union Carbide Corporation	12.50%	853/91	380
	Cresslenn Oil Company	Union Carbide Corporation		897/286	
	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 Elda D Lough	Petroleum Development Corporation	12.50%	111/114	75

RECEIVED
 Office of Oil and Gas
 NOV 04 2022
 WV Department of
 Environmental Protection

4709101375

Attachment to WW-6A1, Johnson 206

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	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	
	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	
80 (00008219)	Hal S Raper Jr and Cathy C Raper	Mar Key, LLC	12.50%	181/173	227.563
42 (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	

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

4709101375

Attachment to WW-6A1, Johnson 206

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum LLC		16/637 also 447/129	
73 74 (00008815)	LINDA KAMINSKI	Mar Key, LLC	12.50%	182/338	16
73, 74 (00008911)	THOMAS HUNT JR, A SINGLE MAN	Mar Key, LLC	12.50%	184/432	17.221
73, 74 (00008916)	FELICIA DAWN ANNESE	Mar Key, LLC	12.50%	184/621	18.521
73, 74 (00008917)	FLEASE ANNESE JR	Mar Key, LLC	12.50%	184/623	18.521
73, 74 (00008923)	STEPHEN A SMOOT	Mar Key, LLC	12.50%	184/635	18.521
73, 74 (00008925)	JASON MICHAEL SMOOT	Mar Key, LLC	12.50%	184/633	18.521
93 (00008808)	JAMES L LEE	MAR KEY LLC	15.00%	182/335	57.67
141 (00008905)	DENNIS ALBIN ZBOSNIK, A MARRIED MAN DEALING IN HIS OWN RIGHT	MAR KEY	12.5	184/428	51.89
139 (00008582)	DENNIS ALBIN ZBOSNIK, MARRIED AND DOING BUSINESS IN HIS SOLE AND SEPARATE RIGHT	MAR KEY	12.5	181/512	3.918
144 (00005943)	O B GOODWIN AND ADA GOODWIN HIS WIFE	CUMBERLAND AND ALLEGHENY GAS	12.5	46/417	119
	CUMBERLAND AND ALLEGHENY GAS	UNION DRILLING INC & ALLERTON MILLER		46/347	
	ALLERTON MILLER	UNION DRILLING INC		98/11	
	UNION DRILLING INC	EQUITABLE RESOURCES EXPLORATION		325/219	
	EQUITABLE RESOURCES EXPLORATION	EQUITABLE RESOURCES ENERGY COMPANY		328/171	
	EQUITABLE RESOURCES ENERGY COMPANY	FUEL RESOURCES PRODUCTION & DEVELOPMENT		116/81	

RECEIVED
 Office of Oil and Gas
 NOV 04 2022
 WV Department of
 Environmental Protection

4709101375

Attachment to WW-6A1, Johnson 206

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	FUEL RESOURCES PRODUCTION & DEVELOPMENT	THE HOUSTON EXPLORATION COMPANY		136/162	
	EQUITABLE RESOURCES ENERGY COMPANY	ENERVEST EAST LIMITED PARTNERSHIP		129/524	
	ENERVEST EAST LIMITED PARTNERSHIP	THE HOUSTON EXPLORATION COMPANY		138/1	
	HOUSTON EXPLORATION COMPANY	SENECA-UPSHUR PETROLEUM INC		139/48	
	SENECA-UPSHUR PETROLEUM INC	SENECA-UPSHUR PETROLEUM LLC		447/129	
170 (00008903)	DELORES FOSTER	MAR KEY LLC	12.5	184/434	3.09
172 (00005843)	PHYLLIS D WILLIAMSON AND STANLEY B DANIELS BY HALLIE E WRIGHT THEIR ATTORNEY IN FACT	CONSOLIDATED GAS SUPPLY CORP	12.5	68/343	37
	CONSOLIDATED GAS SUPPLY CORP	UNION DRILLING INC		71/213	
	UNION DRILLING INC	EQUITABLE RESOURCES EXPLORATION		325/219	
	EQUITABLE RESOURCES EXPLORATION	EQUITABLE RESOURCES ENERGY COMPANY		328/171	
	EQUITABLE RESOURCES ENERGY CO	FUEL RESOURCES PRODUCTION AND DEVELOPMENT CO		116/81	
	FUEL RESOURCES PRODUCTION AND DEVELOPMENT CO	THE HOUSTON EXPLORATION COMPANY		136/162	
	THE HOUSTON EXPLORATION COMPANY	SENECA-UPSHUR PETROLEUM INC		139/48	
	SENECA-UPSHUR INC	SENECA-UPSHUR LLC		447/129	
172 (00005857)	VIVIAN GRUBBS WIDOW, MAXINE BENNETT AND T N BENNETT HER HUSBAND; CLARICE C KONSTANT AND ANTHONY J KONSTANT HER HUSBAND; EDMUND J MATKO AND BEATRICE E MATKO HIS WIFE; ROBERT MCDANIEL AND DOLORES MCDANIEL HIS WIFE	CONSOLIDATED GAS SUPPLY CORP	12.5	68/321	31
	CONSOLIDATED GAS SUPPLY CORP	UNION DRILLING INC		71/213	

RECEIVED
 Office of Oil and Gas
 NDV 04 2022
 WV Department of
 Environmental Protection

4709101375

Attachment to WW-6A1, Johnson 206

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	UNION DRILLING INC	EQUITABLE RESOURCES EXPLORATION		325/219	
	EQUITABLE RESOURCES EXPLORATION	EQUITABLE RESOURCES ENERGY COMPANY		328/171	
	EQUITABLE RESOURCES ENERGY CO	FUEL RESOURCES PRODUCTION AND DEVELOPMENT CO		116/81	
	FUEL RESOURCES PRODUCTION AND DEVELOPMENT CO	THE HOUSTON EXPLORATION COMPANY		136/162	
	THE HOUSTON EXPLORATION COMPANY	SENECA-UPSHUR PETROLEUM INC		139/48	
	SENECA-UPSHUR INC	SENECA-UPSHUR LLC		447/129	

4709101375

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

4709101375

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 and Gas

NOV 04 2022

WV Department of
Environmental Protection

4709101375

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

RECEIVED
Office of Oil and Gas

NOV 04

WV Department of Environmental Protection

4709101375

West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business Organization Detail

NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information. If information is missing from this page, it is not in the The West Virginia Secretary of State's database.

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 and Gas NOV 04	
At Will Term Years					Par Value	WV Department of Environmental Protection			
Authorized Shares					Young Entrepreneur	Not Specified			

12/09/2022

4709101375

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

Annual Reports	RECEIVED Office of Oil and Gas
Filed For	NOV 04 2022
2020	WV Department of Environmental Protection
2019	
2018	

12/09/2022

4709101375

2017
2016
2015
2014
2013
2012
Date filed

[File Your Current Year Annual Report Online Here](#)

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

Monday, March 1, 2021 — 9:37 AM

© 2021 State of West Virginia

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

12/09/2022

West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business Organization Detail

NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information. If information is missing from this page, it is not in the The West Virginia Secretary of State's database.

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
At Will Term Years		Par Value	
Authorized Shares		Young Entrepreneur	Not Specified

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

4709101375

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

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

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

12/09/2022

4709101375

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	
2016	RECEIVED Office of Oil and Gas
2015	NOV 04 2022
2014	
2013	WV Department of Environmental Protection
2012	
2011	

12/09/2022

4709101375

2010
2009
2008
2007
2006
2005
2004
2003
2002
2001
2000
1999
1998
Date filed

[File Your Current Year Annual Report Online Here](#)

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

Monday, March 1, 2021 — 9:40 AM

© 2021 State of West Virginia

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

12/09/2022



4709101375
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

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

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

12/09/2022

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

Date of Notice Certification: 11/2/2022

API No. 47- _____
Operator's Well No. 206
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>	UTM NAD 83 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.

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: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <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 <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
		RECEIVED Office of Oil and Gas NOV 04 2022 WV Department of Environmental Protection

Required Attachments:

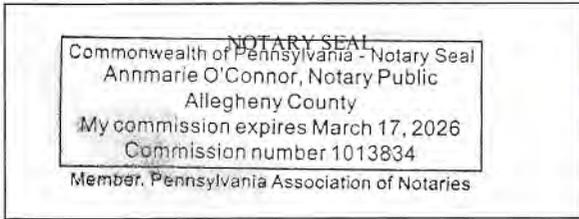
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

4709101375

Certification of Notice is hereby given:

THEREFORE, I Dave Boyer, 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 Suite 101</u>
By:	<u>Dave Boyer</u>		<u>Wexford PA 15090</u>
Its:	<u>Director of Geology & Development Planning</u>	Facsimile:	<u></u>
Telephone:	<u>724-759-0088</u>	Email:	<u>dboyer@arsenalresources.com</u>



Subscribed and sworn before me this 2nd day of November 2022
Annamarie O'Connor Notary Public
 My Commission Expires 3/17/2026

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

12/09/2022

**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: 11/2/22 **Date Permit Application Filed:** 11/2/22

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: _____

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

Name: _____
Address: _____

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

COAL OWNER OR LESSEE
Name: See attached
Address: _____

COAL OPERATOR
Name: _____
Address: _____

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

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

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of Environmental Protection

4709101375

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 of the West Virginia Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304) 266-0450 or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

NOV 04 2022

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 pad 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

12/09/2022

4709101375

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

RECEIVED
Office of Oil and Gas
NOV 04 2022

WV Department of
Environmental Protection

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.**

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.

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

12/09/2022

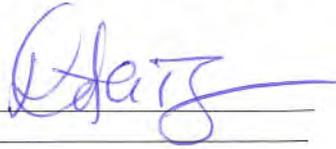
WW-6A
(8-13)

4709101375

API NO. 47- _____
OPERATOR WELL NO. 206
Well Pad Name: Johnson TFP 40

Notice is hereby given by:

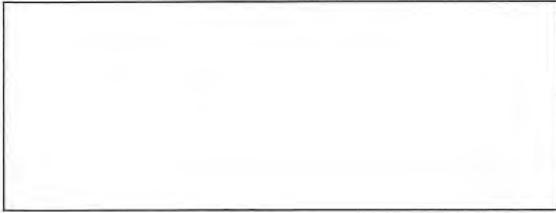
Well Operator: Arsenal Resources
Telephone: 724-759-0088
Email: dboyer@arsenalresources.com



Address: 6031 Wallace Road Suite 101
Wexford PA 15090
Facsimile: _____

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 2nd day of NOVEMBER 2022

Annmarie O'Connor Notary Public

My Commission Expires 3/17/2026

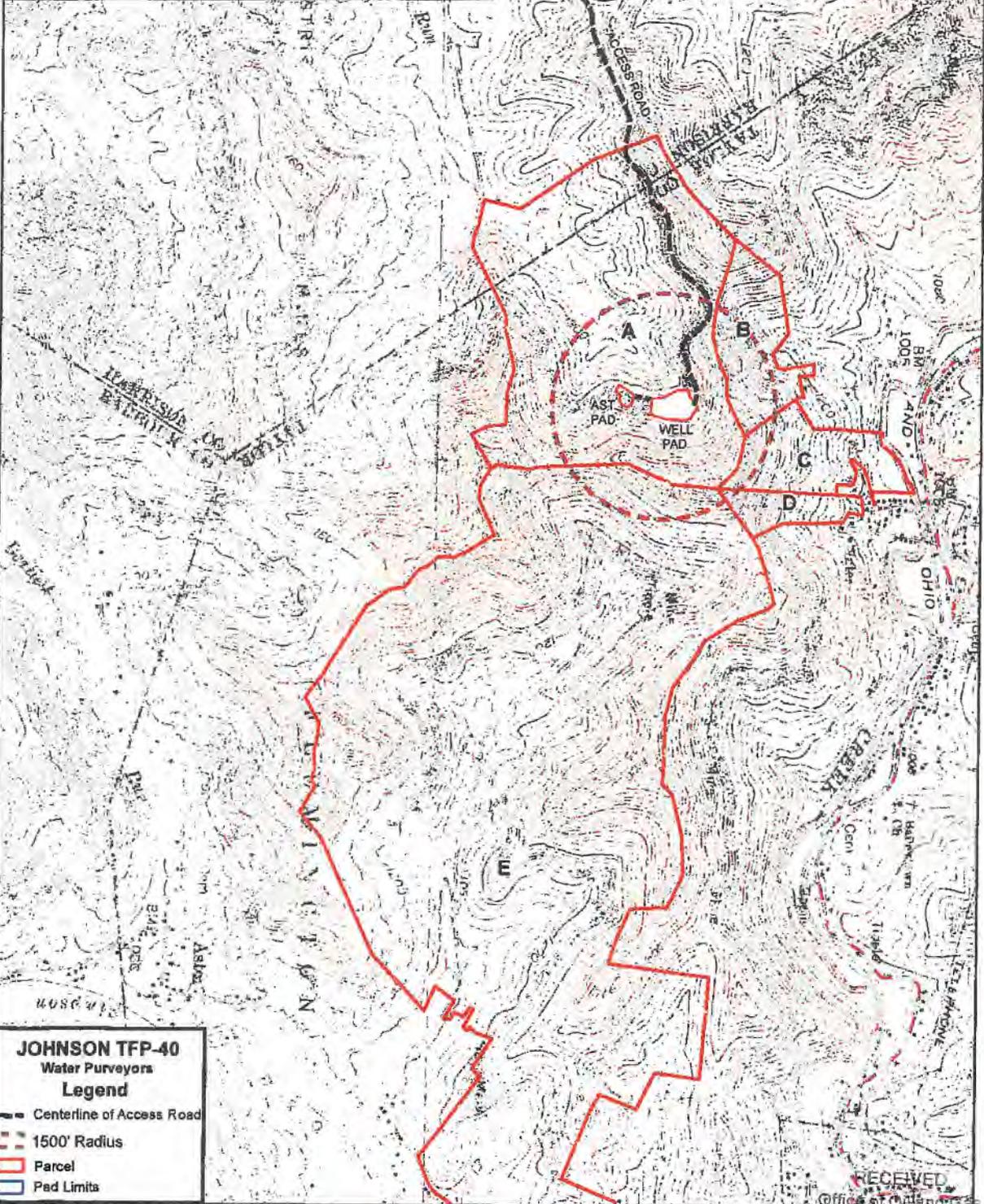
Commonwealth of Pennsylvania - Notary Seal
Annmarie O'Connor, Notary Public
Allegheny County
My commission expires March 17, 2026
Commission number 1013834
Member, Pennsylvania Association of Notaries

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

12/09/2022

4709101375

	OWNER	Tax Map ID	Decimal Degrees (NAD83)		State Plane NAD83 WVN (US Feet)	
			Latitude	Longitude	Northing	Eastng
A	JOHNSON RENEE	15-331-0027	39.25632498	-80.17280821	276147.75	1777964.30
B	CEQUEL III COMMUNICATIONS II LLC	04-07-0027	39.26161828	-80.17242773	278134.85	1778306.47
C	MILLARD CARLYLE G	04-08-0021	39.25390145	-80.16678691	278934.66	1779706.94
D	GRIFFIN JAMES S & ELAINEM & SURV	04-08-0022	39.26303246	-80.16443818	278613.08	1780372.43
E	CFS FARMS LIMITED LIABILITY CO	04-11-0001	39.25389056	-80.14895468	275251.50	1784732.28



JOHNSON TFP-40
Water Purveyors
Legend

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

NOV 04 2022

12/09/2022
 WV Department of
 Environmental Protection

4709101375

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 and Gas

NOV 04 2022

WV Department of
Environmental Protection

12/09/2022

**Arsenal Resources
Johnson TFP 40**

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

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

4709101375

Arsenal Resources
Johnson TFP 40
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

RECEIVED
Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

12/09/2022

4709101375

**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:** 11/15/2017

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: _____
 RECEIVED
 Office of Oil and Gas
 NOV 04 2022

MINERAL OWNER(s)

Name: See Attachment
 Address: _____
 WV Department of
 Environmental Protection

*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.2528781 & -80.169049</u>
County: <u>Taylor</u>	Public Road Access: <u>CR 17, Oral Lake Road</u>
District: <u>Flemington</u>	Watershed: <u>Simpson Creek</u>
Quadrangle: <u>Rosemont</u>	Generally used farm name: <u>Johnson</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: 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.

12/09/2022

4709101375

**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

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

12/09/2022

**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

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

4709101375

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: 11/4/2022

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND DELIVERY

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

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

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

Name: _____
Address: _____

RECEIVED
Office of Oil and Gas
NOV 04 2022

WV Department of
Environmental Protection

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	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>			

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
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.



4709101375

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

October 19, 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 #206 Well Site

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

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

4709101375

Well Name Johnson TFP 40 206

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

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

12/09/2022

ISSUED FOR CONSTRUCTION

EROSION & SEDIMENT CONTROL PLAN

JOHNSON TFP 40 WELL SITE

HARRISON AND TAYLOR COUNTY, WEST VIRGINIA

FOR



ISSUED FOR CONSTRUCTION



LOD SUMMARY			
PARCEL	ACERAGE	PARCEL	ACERAGE
COUNTRY ROUTE 17 (GREEN VALLEY ROAD)	0.02	WARDER ORAN LEE	2.81
SHIVER JOHN TROY & CYNTHIA R 17-15-311-0034-0000-0000	5.57	WARDER ORAN LEE	1.73
REMAINDER AREA #2	1.79	JOHNSON RENEE	3.17
TM 831 P/O PAR 19 21 DB 1630 Pg 2273		JOHNSON RENEE	17.70
TOTAL			34.99

THE PAD AND LOD (INCLUDING EAS CONTROL FEATURES) IS WITHIN 100 FEET OF A PERENNIAL STREAM OR WETLAND.

THE PAD AND LOD (INCLUDING EAS CONTROL FEATURES) IS NOT WITHIN 300 FEET TO A NATURALLY PRODUCING TROUT STREAM.

THE PAD AND LOD (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.

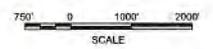
THE CENTER OF THE PAD IS AT LEAST 625 FEET FROM AN OCCUPIED DWELLING STRUCTURE.

THE CENTER OF THE PAD IS AT LEAST 625 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET.

LOD SUMMARY	
ACCESS ROAD	21.27
WELL PAD	6.20
TANK PAD	1.59
STOCKPILE	4.50
MODIFIED AREA	1.43
TOTAL	34.99
TREE CLEARING	15.92



REFERENCES: UNITED STATES GEOLOGICAL SURVEY - ROSEMOUNT QUADRANGLE, WEST VIRGINIA, 7.5 MINUTE SERIES



PROJECT NO. 17078-007
MARCH 2021

DIEFFENBAUCH & HRITZ, LLC

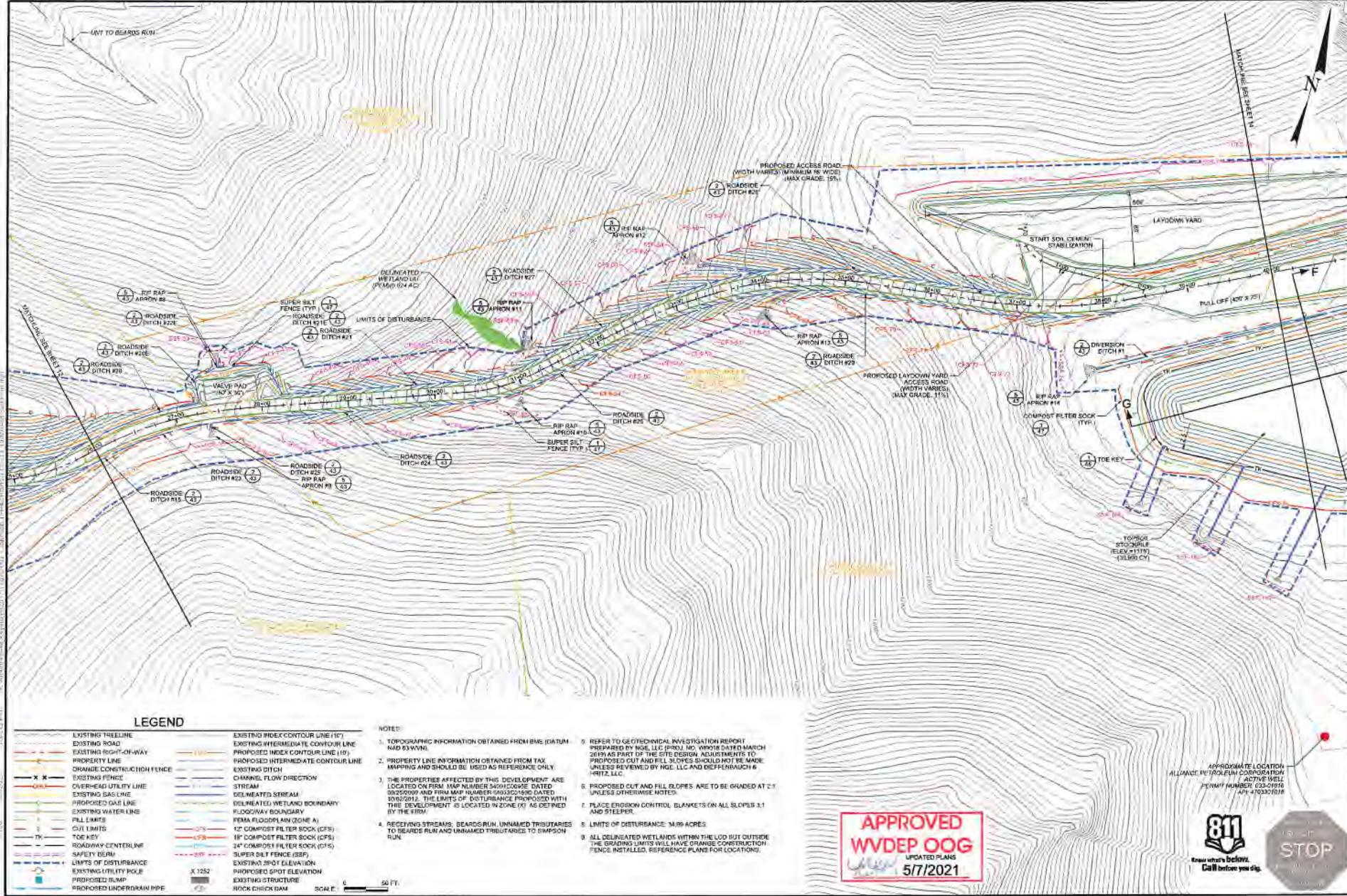


INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3 - 5	EXISTING SITE PLAN
6 - 8	SOILS PLAN
9 - 11	OVERALL SITE PLAN
12 - 18	PROPOSED SITE PLAN
19 - 22	ACCESS ROAD PROFILE
23 - 25	ACCESS ROAD CROSS-SECTIONS
26	WELL PAD CROSS-SECTIONS
27	TANK / MANIFOLD PAD CROSS-SECTIONS
28 - 29	STOCKPILE CROSS-SECTIONS
30 - 33	UTILITY RELOCATION PROFILE
34	WATERLINE RELOCATION
35 - 37	SITE REVEGETATION PLAN
38 - 40	SITE RESTORATION PLAN
41 - 45	CONSTRUCTION DETAILS
46	GEO TECHNICAL DETAILS
47 - 49	EAS DETAILS
50	QUANTITY SUMMARY

NO.	DATE	REVISION
1	03/03/21	ISSUED FOR CONSTRUCTION
2	03/03/21	ISSUED FOR CONSTRUCTION
3	03/03/21	ISSUED FOR CONSTRUCTION
4	03/03/21	ISSUED FOR CONSTRUCTION

WED DRAWN	ENG CHECKED	H.E.P. APPROVED
MAR 2021	2/2/21	2/2/21
PROJECT NO. 17078-007		

DIEFFENBAUCH & HRITZ, LLC 1000 Clarks Road, Suite 200 Martinsburg, WV 26151 P: 304.285.5555 F: 304.285.3537
PROJECT: JOHNSON TFP40 WELL SITE
TITLE: TITLE SHEET
1



LEGEND

	EXISTING TREELINE		EXISTING INDEX CONTOUR LINE (10')
	EXISTING ROAD		EXISTING INTERMEDIATE CONTOUR LINE (10')
	EXISTING RIGHT-OF-WAY		PROPOSED INTERMEDIATE CONTOUR LINE
	PROPERTY LINE		EXISTING DITCH
	ORANGE CONSTRUCTION FENCE		CHANNEL FLOW DIRECTION
	EXISTING FENCE		STREAM
	OVERHEAD UTILITY LINE		DELIMITED STREAM
	EXISTING GAS LINE		DELIMITED WETLAND BOUNDARY
	PROPOSED GAS LINE		FLOODWAY BOUNDARY FROM FLOODPLAIN ZONE A1
	EXISTING WATER LINE		12' COMPOST FILTER SOCK (CFS)
	FILL LIMITS		18' COMPOST FILTER SOCK (CFS)
	CUT LIMITS		24' COMPOST FILTER SOCK (CFS)
	TOE KEY		SUPER SILT FENCE (SSF)
	ROADWAY CENTERLINE		EXISTING SPOT ELEVATION
	SAFETY BERM		PROPOSED SPOT ELEVATION
	LIMITS OF DISTURBANCE		EXISTING STRUCTURE
	EXISTING UTILITY POLE		ROCK CHECK DAM
	PROPOSED SLUMP		
	PROPOSED UNDERGROUND PIPE		

NOTES

1. TOPOGRAPHIC INFORMATION OBTAINED FROM BME (DATUM NAD 83 W/VI).
2. PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPPING AND SHOULD BE USED AS REFERENCE ONLY.
3. THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM MAP NUMBER 56003009 DATED 09/25/2009 AND FIRM MAP NUMBER 56003021890 DATED 10/02/2011. THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT IS LOCATED IN ZONE (V) AS DEFINED BY THE FIRM.
4. RECEIVING STREAMS: BEARDS RUN, UNNAMED TRIBUTARIES TO BEARDS RUN AND UNNAMED TRIBUTARIES TO EMPSON RUN.
5. REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY MSE, LLC (PROJ. NO. W9018 DATED MARCH 2019) AS PART OF THE SITE DESIGN. ADJUSTMENTS TO PROPOSED CUT AND FILL SLOPES SHOULD NOT BE MADE UNLESS REVIEWED BY HGE, LLC AND DIEFFENBAUGH & HRTZ, 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 3:1 AND STEEPER.
8. LIMITS OF DISTURBANCE: 34.89 ACRES.
9. ALL DELIMITED WETLANDS WITHIN THE LOD BUT OUTSIDE THE GRADING LIMITS WILL HAVE ORANGE CONSTRUCTION FENCE INSTALLED. REFERENCE PLANS FOR LOCATIONS.

APPROVED
WVDEP OOG
 UPDATED PLANS
 5/7/2021

APPROXIMATE LOCATION
 ALLOWANCE WETLANDS COORDINATION
 ACTIVE WELL
 PERMIT NUMBER: 633-01916
 APN: 470302018



PROJECT	JOHNSON TFWAD WELL SITE
CLIENT	ARSENAL
DATE	5/7/2021
DESIGNER	DIEFFENBAUGH & HRTZ, LLC
PROJECT NO.	17878-007
DATE	MAY 2021
WED	06/01/21
ENG	LINE/CTS
HWP	APPROV/ST
SCALE	AS SHOWN
PROJECT NO.	17878-007
DATE	MAY 2021
DESIGNER	DIEFFENBAUGH & HRTZ, LLC
PROJECT NO.	17878-007
DATE	MAY 2021
DESIGNER	DIEFFENBAUGH & HRTZ, LLC
PROJECT NO.	17878-007

ISSUED FOR CONSTRUCTION

EROSION & SEDIMENT CONTROL PLAN

JOHNSON TFP 40 WELL SITE

HARRISON AND TAYLOR COUNTY, WEST VIRGINIA
FOR



ISSUED FOR CONSTRUCTION

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

LOD SUMMARY			
PARCEL	ACREAGE	PARCEL	ACREAGE
COUNTRY ROUTE 17 GREEN VALLEY ROAD	0.02	WARDER ORAHEE 17-15-231-0205-0010-0000	2.91
SHIGER JOHN 1707 & CYNTHIA R 17-15-381-0204-0000-0000	5.77	WARDER ORAHEE 17-15-381-0205-0000-0000	1.78
REMAN OR ANCA #2 TM 583 P/D PAR 18.21 CR 1600 PG 1273	3.70	JOHNSON KENEE 17-15-393-0209-0000-0000	3.17
		JOHNSON KENEE 17-15-393-0207-0000-0000	12.70
TOTAL			36.09

THE PAD AND LOD (INCLUDING E&S CONTROL FEATURES) IS WITHIN 100 FEET OF A PERENNIAL STREAM OR WETLAND.
THE PAD AND LOD (INCLUDING E&S CONTROL FEATURES) IS NOT WITHIN 300 FEET TO A NATURALLY PRODUCING TROUT STREAM.
THE PAD AND LOD (INCLUDING E&S CONTROL FEATURES) IS NOT WITHIN 1000 FEET TO A GROUNDWATER BITUMEN OR PUBLIC WATER SUPPLY.
THE WELL IS NOT WITHIN 250 FEET TO AN EXISTING WASH WELL OR DEVELOPED SPRING.
THE CENTER OF THE PAD IS AT LEAST 425 FEET FROM AN OCCUPIED DWELLING STRUCTURE.
THE CENTER OF THE PAD IS AT LEAST 425 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET.

LOD SUMMARY	
ACCESS ROAD	31.22
WELL PAD	6.20
TANK PAD	1.58
STORMW	4.50
MODIFIED AREA	1.43
TOTAL	35.09
TREE CLEARING	1.80



REFERENCE: UNITED STATES GEOLOGICAL SURVEY - ROSEMONT QUADRANGLE, WEST VIRGINIA, 7.5 MINUTE SERIES



PROJECT NO. 17078-007
FEBRUARY 2022

DIEFFENBAUCH & HRITZ, LLC

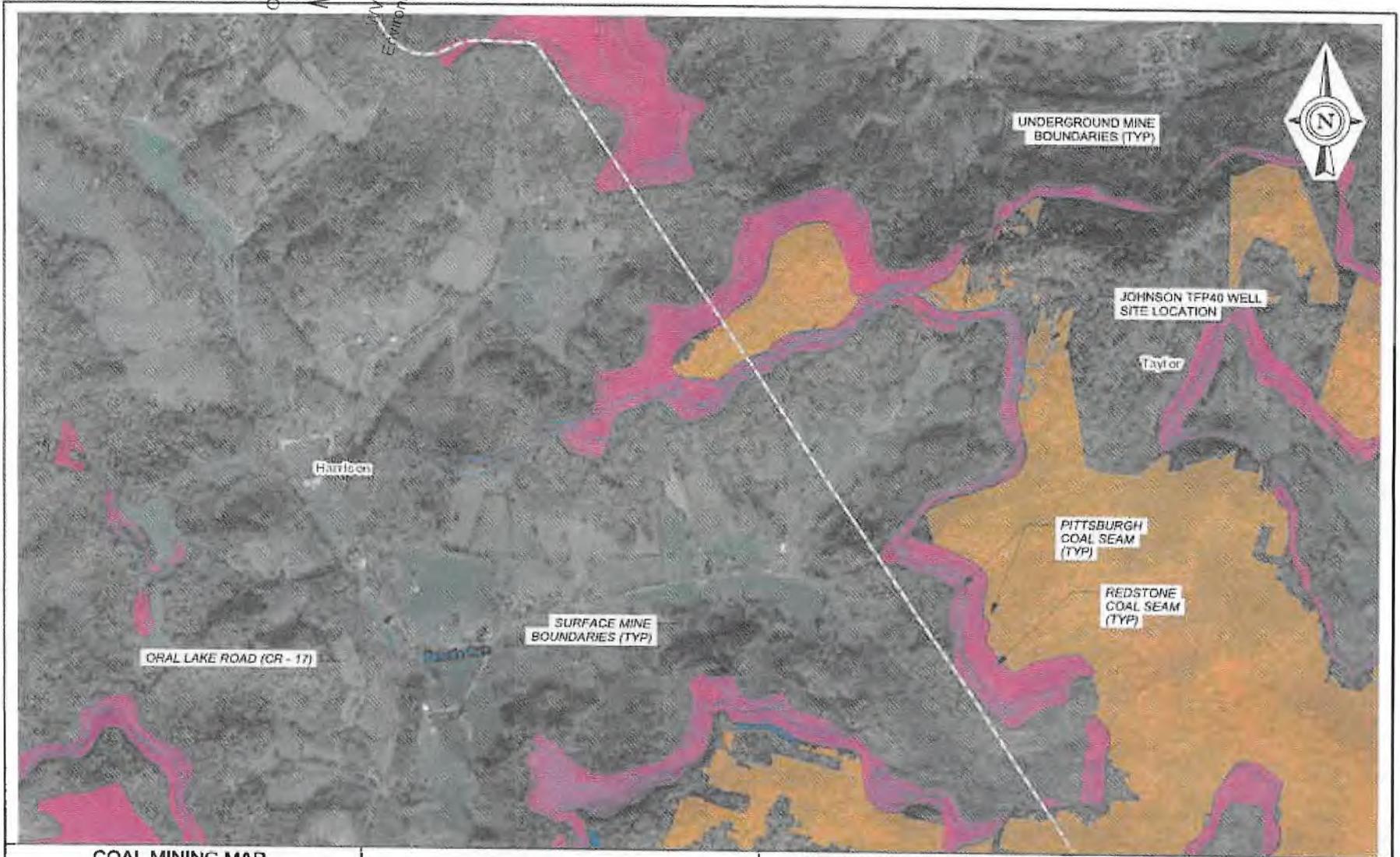
INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3-6	EXISTING SITE PLAN
8-8	SOILS PLAN
9-11	OVERALL SITE PLAN
12-15	PROPOSED SITE PLAN
16-22	ACCESS ROAD PROFILE
23-25	ACCESS ROAD CROSS-SECTIONS
26	WELL PAD CROSS-SECTIONS
27	TANK / TANK-OLD PAD CROSS-SECTIONS
28	LAYDOWN YARD CROSS-SECTION
29	INTENTIONALLY LEFT BLANK
30-33	UTILITY RELOCATION PROFILE
34	WATERLINE RELOCATION
35-37	SITE REVEGETATION PLAN
38-40	SITE REVEGETATION PLAN
41-43	CONSTRUCTION DETAILS
46	E&S DETAILS
47-49	CONSTRUCTION DETAILS
50	QUANTITY SUMMARY

PROJECT: JOHNSON TFP40 WELL SITE
 SHEET: TITLE SHEET
 DATE: 11/04/2022
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]
 ARSENAL RESOURCES
 17078-007
 FEB 2022
 H.P. APPROVED
 E&S CONTROL
 WED. 11/04/2022

4709101375

Amel L. Reynolds 3-16-22

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection



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

DIEFFENBAUCH & HRITZ, LLC
1095 Chapln 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.

