



west virginia department of environmental protection

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

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

Monday, November 28, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for Fiber TFP 22 202
47-091-01372-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number: Fiber TFP 22 202
Farm Name: CFS FARMS LLC
U.S. WELL NUMBER: 47-091-01372-00-00
Horizontal 6A New Drill
Date Issued: 11/28/2022

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)

4709101372

API NO. 47-091 -
OPERATOR WELL NO. 202
Well Pad Name: Fiber TFP22

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: 202 Well Pad Name: Fiber TFP22

3) Farm Name/Surface Owner: CFS Farms LLC Public Road Access: CR 3/13

4) Elevation, current ground: 1,252 Elevation, proposed post-construction: 1,240.5

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

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No No but pad has been 90% built

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation - Marcellus Shale, Top - 7684 ft, Bottom - 7773 ft, Anticipated Thickness - 89 ft, Associated Pressure - 0.5 psi/ft

8) Proposed Total Vertical Depth: 7,756.5 ft

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 29,992 ft

11) Proposed Horizontal Leg Length: 21,800 ft

12) Approximate Fresh Water Strata Depths: 20' , 40' , 55' , 110'

13) Method to Determine Fresh Water Depths: Offsetting wells reported water depths (091-00220, 091-00221, 091-00222)

14) Approximate Saltwater Depths: 1,110'

15) Approximate Coal Seam Depths: Harlem-408', Bakerstown-496', Brush Creek-583', Upper Freeport-628', Lower Freeport-690', Upper Kittanning-764', Middle Kittanning-808', Lower Kittanning-835', Clarion-881'

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: _____

RECEIVED
Oil and Gas
OCT 24 2022
West Virginia Department of
Environmental Protection

WW-6B
(04/15)

4709101372
 API NO. 47-091
 OPERATOR WELL NO. 202
 Well Pad Name: Fiber TFP22

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24	New	H-40	102.7	120	120	CTS
Fresh Water	13.375	New	J-55	54.5	300	300	CTS
Coal							
Intermediate	9.625	New	J-55	40	1,500	1,500	CTS
Production	5.5	New	P-110	20	29,992	29,992	TOC @ 1,350
Tubing							
Liners							

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
 DN: CN = Kenneth Greynolds, email = Kenneth.L.Greynolds@ar.gov, O = AR G - WDCSPDU - CI and SAS
 Date: 2022.10.19.08:21:36 -0500

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24	36			0	Class A/L, 3% CaCl2	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A/L, 3% CaCl2	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A/L, 3% CaCl2	1.29
Production	5.5	8.5-8.75	0.361	15,920	11,500	Class A/L Poz	1.29/1.34
Tubing					5,000		
Liners					N/A		

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.050

22) Area to be disturbed for well pad only, less access road (acres): 5.389

23) Describe centralizer placement for each casing string:

24"- No centralizers 13 3/8" – one bow spring centralizer on every other joint 9 5/8" – one bow spring centralizer every third joint from TD to surface 5 1/2" – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,700'; there will be no centralizers from 1,700' 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 1,350' (+/- 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 strands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are noticed, we will re-run the previous stand of pipe pulled across and circulate 2x bottoms up while watching shakers for signs of cuttings. Once at the base curve, the string will be continuously rotated while pumping 2x bottoms up. We will pull three stands and fill the hole until we reach the vertical section of the well.

*Note: Attach additional sheets as needed.

4709101372

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

12/02/2022



4709101372

west virginia department of environmental protection

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

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

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

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4) ORDER NO. 2022-14
SECTION 11.5 AND LEGISLATIVE RULE)
35CSR8 SECTION 9.2.h.8.,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

REPORT OF THE OFFICE

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

FINDINGS OF FACT

1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
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



Other Names:	Fiber 202
Surface Location:	LAT 39.252939N x Long -80.147288 W
Bottom Hole Location:	LAT 39.194895N x Long -80.122073W
Directional Plan Vs.	SDI #2
Total Depth (MD)	29,992

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 Drlg /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		300	300	13 3/8" 54.5# J-55 LTC			Vertical
None	Section 3			12 1/4" (PDC)		Floc Water	
		1,500	1,500	9 5/8" 40# J-55 LTC			Vertical

Wireline: None
Mudloggers: KOP - TD
KOP @ 7,031

Formation	Depth (Tss)	Top (TVD)	Base (TVD)
Bakerstown Coal	0	0	0
Brush Creek Coal	0	0	0
Upper Freeport Coal	0	0	0
Lower Freeport Coal	0	0	0
Upper Kittanning Coal	0	0	0
Middle Kittanning Coal	0	0	0
Lower Kittanning Coal	0	0	0
Big Lime	0	0	0
Balltown Sandstone	0	0	0
Bradford Sandstone	0	0	0
Benson Sandstone	0	0	0
1st Elk Siltstone	0	0	0
Burkett Shale	0	0	0
Tully Limestone	0	0	0
Mahantango Shale	0	0	0
Marcellus Shale	0	0	0
Purcell Limestone	0	0	0
Lower Marcellus Shale	0	0	0
TARGET	0	0	0
Onondaga Limestone	0	0	0

24" 94# H-40 BTC		Vertical
17 1/2" (PDC)		Floc Water
Cement	Class A, 3% CaCl2	
Density/Yield/Volume (sx)	15.6	1.2
TOC	Surface	

12 1/4" (PDC)		Floc Water
Cement (Lead/Tail)	Class A, 3% CaCl2	Class A, 3% CaCl2
Density/Yield/Volume (sx)	15.6	1.19
TOC	Surface	

Mud Data	From	To
Floc Water	120	1500
Floc Water	1500	7,031
11.5- 12.0 ppg SOBM	7,031	29,992

Bit Data	From	To
17-1/2" & 12 1/4" PDC	120	1,500
8- 3/4" (PDC)	1,500	7,031
8- 1/2" (PDC)	8,177	29,992

Directional Data	
KOP	7,443
Curve	9°/100 ft
	Angle 89.5
	Azi 160
EOB	MD 8177
	TVD 7756

Cement	Production		
Lead	Lead: 50-50 Poz/A		
	13.8	1.33	TBD
Tail	Tail: Class A		
	15	1.3	TBD
TOC	1350		

MD	29,992
TVD	7756
Azimuth	160

5 1/2" 20# P-110HP Weld Tube GBCD

Revision 1

Note: Not drawn to scale

Cement Outside Casing Seal Assembly in Annulus

Date Last Revised: 18-Oct-22
Ross Schweitzer

WW-9
(4/16)

API Number 47 - 091 4709101372
Operator's Well No. Fiber TFP 202

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 _____)

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 20th day of October, 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 3/17/2026
Commission number 1013834
Member, Pennsylvania Association of Notaries

Arsenal Resources

Proposed Revegetation Treatment: Acres Disturbed 17.050 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@vvr.gov C = AG O = WWDEP OU = OI and Gas
Date: 2022.10.19 09:20:02 -0400

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No



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 the Fiber TFP22 Pad, well #202.

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 7,800' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Benson formations (approximately 4,800' TVD).

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

1. Communications with Conventional Operators.

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

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

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

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

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



2. Reporting

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

SURFACE HOLE SURVEYED 38° 17' 30" (NAD27)
 BOTTOM HOLE SURVEYED 39° 12' 30" (NAD27)

11.042' 6.448'

Latitude: (NAD27)

(NAD83-WM) US SURVEY FT.

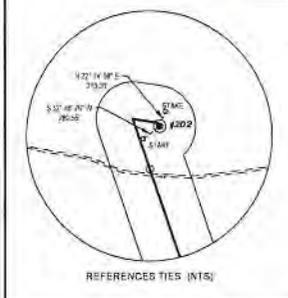
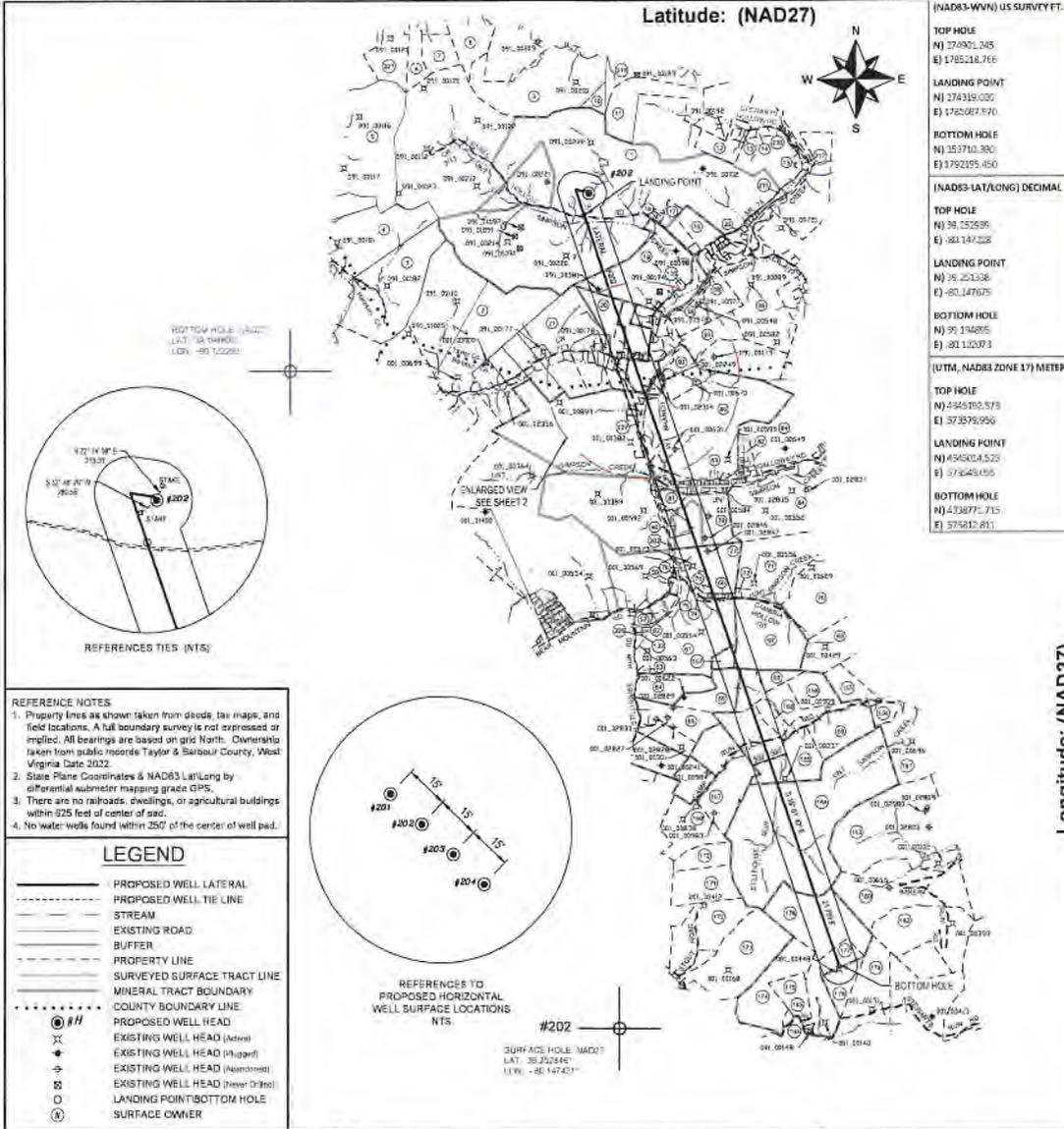
TOP HOLE
 N) 379921.245
 E) 1765214.766
 LANDING POINT
 N) 274319.000
 E) 1762087.570
 BOTTOM HOLE
 N) 383763.300
 E) 1759219.450

(NAD83-LAT/LONG) DECIMAL

TOP HOLE
 N) 38.325896
 E) -80.1471238
 LANDING POINT
 N) 29.251338
 E) -80.147675
 BOTTOM HOLE
 N) 39.134885
 E) -80.112073

(UTM, NAD83 ZONE 17) METER

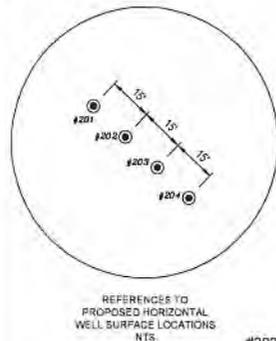
TOP HOLE
 N) 3945190.573
 E) 5735795.950
 LANDING POINT
 N) 4560014.523
 E) 5736481.055
 BOTTOM HOLE
 N) 4338771.715
 E) 5752121.811



REFERENCE 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 Taylor & 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 255 feet of center of well.
 4. No water wells found within 250' of the center of well pad.

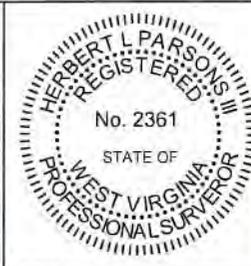
LEGEND
 - - - - - PROPOSED WELL LATERAL
 - - - - - PROPOSED WELL TIE LINE
 - - - - - STREAM
 - - - - - EXISTING ROAD
 - - - - - BUFFER
 - - - - - PROPERTY LINE
 - - - - - SURVEYED SURFACE TRACT LINE
 - - - - - MINERAL TRACT BOUNDARY
 - - - - - COUNTY BOUNDARY LINE
 - - - - - PROPOSED WELL HEAD
 - - - - - EXISTING WELL HEAD (Active)
 - - - - - EXISTING WELL HEAD (Inoperable)
 - - - - - EXISTING WELL HEAD (Apparent)
 - - - - - EXISTING WELL HEAD (Newer Drilled)
 - - - - - LANDING POINT/BOTTOM HOLE
 - - - - - SURFACE OWNER



REFERENCES TO PROPOSED HORIZONTAL WELL SURFACE LOCATIONS (NTS)

FILE#: 22078-002
 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* 10/20/2022
 P.S. #2361: Herbert L. Parsons, III P.S.

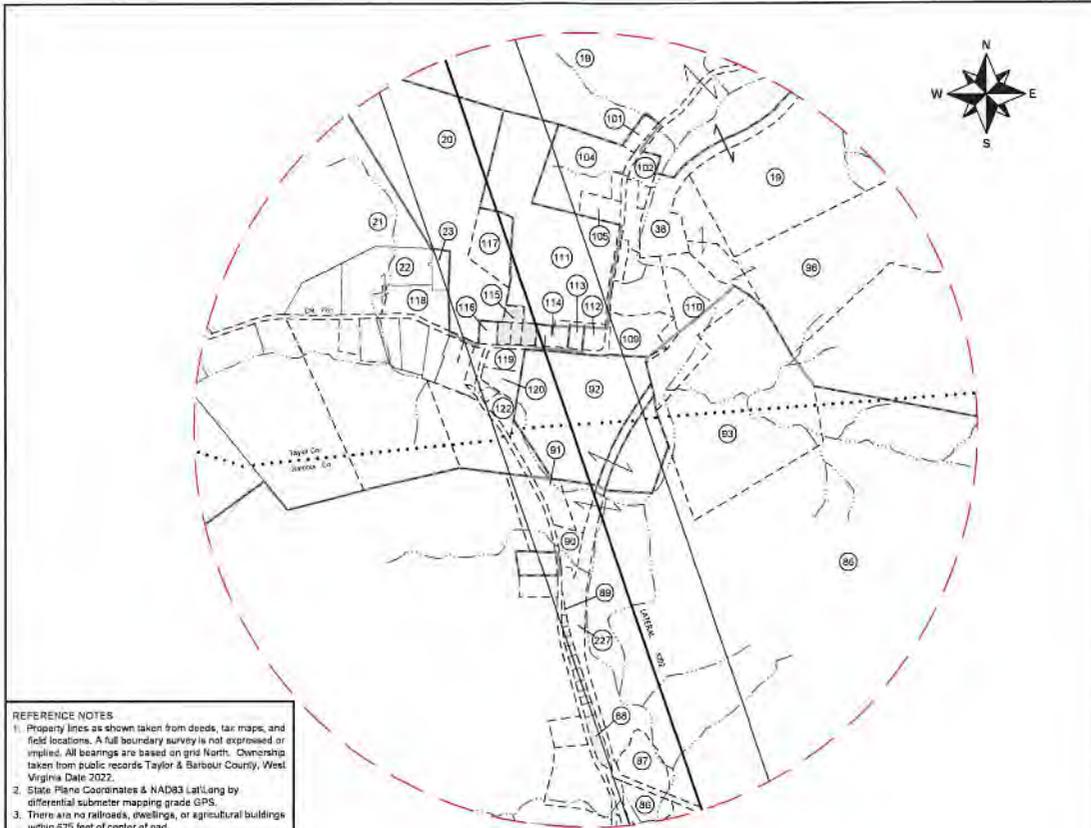


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304
 Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: SIMPSON CREEK
 COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT
 SURFACE OWNER: FIBER CLARENCE & CONSTATCE IRREVOCABLE TRUST
 OIL & GAS ROYALTY OWNER: SEE WM-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 20, 2022
 OPERATOR'S WELL #: FIBER TFP22 # 202
 API WELL #: 47 091
 STATE COUNTY PERMIT
 ELEVATION: 1,240.5'
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 905 ±
 ACREAGE: 1,080 ±
 ESTIMATED DEPTH: TVD: 7,756.5' TMD: 29,992.1'
 DESIGNATED AGENT: NATHAN SKEEN
 ADDRESS: 633 MAIN STREET
 CITY: BRIDGEPORT STATE: WV ZIP: 26330

12/02/2022

Longitude: (NAD27)
 14.084'
 BOTTOM HOLE SURVEYED 80° 05' 00" (NAD27)
 SURFACE HOLE SURVEYED 80° 07' 30" (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 Taylor & Barbour County, West Virginia Date 2022.
2. State Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade GPS.
3. There are no railroads, shellings, 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
	SURVEYED SURFACE TRACT 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 (Shallow Drilled)
	LANDING POINT/BOTTOM HOLE
	SURFACE OWNER

FILE#: 22078-002
 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:
 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 20, 2022
 FIBER TFP22
 OPERATOR'S WELL #: # 202
 API WELL #: 47 091
 STATE COUNTY PERMIT

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

ELEVATION: 1,240.5'
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 905 ±
 ACREAGE: 1,080 ±

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: 7,756.5' TMD: 29,992.1'

WELL OPERATOR: ARSENAL RESOURCES DESIGNATED AGENT: NATHAN STEEN
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300 ADDRESS: 633 MAIN STREET
 CITY: WEXFORD STATE: PA ZIP: 15090 CITY: BRIDGEPORT STATE: WV ZIP: 26330

12/02/2022

SURFACE PARCEL OWNER INFORMATION			ADJOINER PARCEL OWNER INFORMATION		
ID#	DEFS	OWNER NAME	ID#	DEFS	OWNER NAME
1	051 48-04-0011-0011-0000	FIBER CLARENCE & CONSTATCE IRREVOCABLE TRUST	3	053 17-15-0251-0014-0000	OCSTREAM LLC
10	001 48-04-0011-0017-0000	SIMPSON JOHN E	4	033 17-15-0251-0017-0000	OCSTREAM LLC
20	001 48-04-0011-0009-0000	WATKINS DOUGLAS R & ANNA M & SURV	5	033 17-15-0251-0027-0000	JOHNSON RENEE
111	001 48-04-0011-0010-0000	ELWIS THOMAS & KERRY & SURV	6	051 48-04-0000-0000-0000	GRIMM JAMES S & ELAINE M & SURV
117	001 48-04-0011-0003-0000	WATKINS DOUGLAS R & ANNA M & SURV	7	001 48-04-0000-0005-0000	GRAY RANDALL & RITA
115	001 48-04-0011-0008-12-11 & 12-0000	PIRRO JOSEPH & DANA STEWART & SURV	8	001 48-04-0000-0005-0000	MARIS BETTY P
114	001 48-04-0011-0014-0000	ASTOR M P CHURCH	9	001 48-04-0000-0005-0000	COLQUEST DEVELOPMENT LLC
107	001 48-04-0011-0011-0000	SOUTH JOHN V & GARY M BROWN JR & SURV	10	001 48-04-0000-0005-0000	BLOSSER PATRICK B ETAL ROBERT C & CLINTON D & SURV
227	001 01-05-0000-0003-0000	CSX TRANSPORTATION INC	11	001 48-04-0000-0007-0000	SIMMONS HANER
08	001 01-05-0000-0007-0000	WILFONG DENVER S JR	12	001 48-04-0000-0008-0000	PRATT JANICE & CHARLENE MOORE & CURTIS & DAVID STEWART
12	001 PLAN OF LOTS	GALLOWAY SUBDIVISION	13	001 48-04-0000-0008-0000	PRATT JANICE & CHARLENE MOORE & CURTIS & DAVID STEWART
01	001 01-05-0000-0002-0001	TRIPLE LAND & MINERALS	15	001 48-04-0000-0008-0000	GRIS DAVID & CATHY & SURV
79	001 01-05-0000-0005-0000	ZACAVICH FRANK	16	001 48-04-0000-0010-0000	SALTS STEVEN A & NICOLE J & SURV
173	001 01-05-0000-0007-0000	ZACAVICH FRANK D	17	001 48-04-0000-0010-0000	ORNDUFF JOHN R & KATHY N & SURV
76	001 01-05-0000-0006-0000	HIGSON HOWARD TOD	18	001 48-04-0000-0011-0000	ANDERSON DANIEL A KATHY & SURV
63	001 PLAN OF LOTS	BEAR MOUNTAIN SUBDIVISION INC 1	21	001 48-04-0000-0009-0000	BECKWITH LUMBER COMPANY
01	001 01-05-0000-0010-0000	VUKOVICH ROBERT K & SHELIA MARIE VUKOVICH & CAROL A BREAK	22	001 48-04-0000-0009-0000	SMITH REGIN M
157	001 01-05-0000-0008-0000	MCCALLIE RONALD D	23	001 48-04-0000-0009-0000	ASTOR CEMETERY
07	001 01-05-0000-0008-0000	GOFF ROBERT H III & TINA M HWY	26	001 48-04-0000-0009-0000	STATE ROUTE 76
88	001 01-05-0000-0009-0001	TRIPLE LAND & MINERALS	34	001 48-04-0000-0009-0000	SIMPSON JOHN E
185	001 01-05-0000-0009-0000	MCCALLIE RONALD D	30	001 48-04-0000-0009-0000	SHRISON JOHN
194	001 01-05-0000-0008-0000	YOCOMO WILLIAM FRANK LE TAREN WILLIAM M & SAMUEL O YOCOMO	36	001 48-04-0000-0009-0000	DUNN ROSS A
156	001 01-04-0000-0001-0000	WENTZ BRAN L & REBECCA J HWY	96	001 48-04-0000-0010-0000	RIFFLE BEHALLE L & LYNDY SUE & SURV
177	001 01-04-0000-0002-0000	WENTZ BRAN L & REBECCA J HWY	98	001 48-04-0000-0011-0000	MOHRLEY THOMAS R JR & LYNDY L
			100	001 48-04-0000-0011-0000	SIMPSON JOHN E
			101	001 48-04-0000-0011-0000	GAINES GROVER L
			102	001 48-04-0000-0011-0000	KADRA RYAN C
			104	001 48-04-0000-0011-0000	WESTRAL ERIC & KEVIN R TERHARBOCK & SURV
			106	001 48-04-0000-0011-0000	STREETS DAVID B & MARY
			109	001 48-04-0000-0011-0000	COSTELLO RAYMOND GARY
			110	001 48-04-0000-0011-0000	CSX TRANSPORTATION INC
			112	001 48-04-0000-0011-0000	THE BOARD OF EDUCATION OF THE COUNTY OF TAYLOR
			113	001 48-04-0000-0011-0000	JENKINS THOMAS R & KERRY E L
			119	001 48-04-0000-0011-0000	KINIPP JERRE SR
			117	001 48-04-0000-0011-0000	WATKINS DOUGLAS R & ANNA M & SURV
			118	001 48-04-0000-0011-0000	BESSIE BECKWITH KAY & GARY V SMITH & SURV
			119	001 48-04-0000-0011-0000	HALL CANDANCE S & CLYDE A JR
			120	001 48-04-0000-0011-0000	SMALLIDGE BETTY H & MARY STITLER (JIFF)
			122	001 48-04-0000-0011-0000	PHISHO GARY L
			215	001 48-04-0000-0011-0000	BRAKE WILLIAM C & CRYSTAL R & SURV
			217	001 48-04-0000-0011-0000	PRATT HOV LYNN & PATRICK LYNN & SURV
			310	001 48-04-0000-0008-0000	BLOSSER PATRICK S & ROBERT C & CLINTON D & SURV
			320	001 48-04-0000-0008-0000	COUNTY ROUTE 5710 STEWART'S HOLLOW ROAD
			321	001 48-04-0000-0008-0000	MILLARE CAHILL G
			2	001 01-05-0000-0002-0000	STEWART FARM LLC
			37	001 01-05-0000-0001-0000	HENLINE EDWARD
			38	001 01-05-0000-0001-0000	HEWMAN BERRY J BENJAMIN WYSON
			39	001 PLAN OF LOTS	BEAR MOUNTAIN SUBDIVISION INC 1
			42	001 01-05-0000-0004-0002	HILL MARK ALLEN & DEBRA K HWY
			83	001 01-05-0000-0005-0000	MONTGOMERY BRADFORD EUGENE & GEORGIA HWY
			54	001 01-05-0000-0005-0002	BECKWITH LUMBER CO INC
			85	001 01-05-0000-0005-0000	TRIPLE LAND & MINERALS
			86	001 01-05-0000-0005-0000	MCCALLIE RONALD D
			39	001 01-05-0000-0005-0000	GUDGAR LORENA HRS ET ALS
			70	001 01-05-0000-0005-0000	BECKWITH LUMBER CO INC
			71	001 01-05-0000-0005-0000	BECKWITH LUMBER CO INC
			72	001 01-05-0000-0005-0000	SMITH JEANETTE REBECCA
			74	001 01-05-0000-0005-0000	HIGSON HOWARD TOD
			75	001 01-05-0000-0005-0000	ZACAVICH FRANK D
			76	001 01-05-0000-0005-0000	WALLACE CORLEY CEMETERY
			80	001 01-05-0000-0005-0000	ZACAVICH TREVOR M
			82	001 PLAN OF LOTS	GALLOWAY SUBDIVISION
			85	001 01-05-0000-0005-0000	CLEAVINGER CEMETERY
			84	001 01-05-0000-0005-0000	BECKWITH LUMBER CO INC
			89	001 01-05-0000-0005-0000	WILFONG DENVER S JR
			87	001 01-05-0000-0005-0000	SALTS STEVE R & AMY R HWY
			88	001 01-05-0000-0005-0000	GALLOWAY ABIGAIL SUBDIVISION
			89	001 01-05-0000-0005-0000	FARRIS BETTY
			90	001 01-05-0000-0005-0000	SALTS STEVE & TWYLA HWY
			91	001 01-05-0000-0005-0000	PHISHO GARY L & SUSAN CHRISTIAN
			102	001 01-05-0000-0005-0000	MILLEY ASHLEY
			105	001 01-05-0000-0005-0000	WENTZ BRAN L & REBECCA J
			106	001 01-05-0000-0005-0000	MORGAN DELORES SUE & PATTY JEAN CLIFFIELD
			108	001 01-05-0000-0005-0000	JACOBS WILIAM E JR & GERRY L
			101	001 01-05-0000-0005-0000	JACOBS WILIAM E JR & GERRY L
			163	001 01-05-0000-0005-0000	WOLFE G SHERY
			166	001 01-05-0000-0005-0000	CORDER SHIRLEY Y
			167	001 01-05-0000-0005-0000	MYER JOHN S REDEKAW HWY
			169	001 01-05-0000-0005-0000	WINE SHIRLEY LYNN TRUST
			170	001 01-05-0000-0005-0000	BURBER GARNET HRS O O BEVERLY J POL
			171	001 01-04-0000-0002-0000	LEACH DENA M L CHLOE TOSHIA BOOBRED DAKOTA & CHARLTON EDWARD
			172	001 01-04-0000-0002-0000	WENTZ BRAN L & REBECCA J HWY
			173	001 01-04-0000-0002-0000	WENTZ BRAN L & REBECCA J HWY
			174	001 01-04-0000-0002-0000	WEBSTER RONALD W & KELLY HWY
			175	001 01-04-0000-0002-0000	TRAVIS BRANSON A & TONYA S
			180	001 01-04-0000-0004-0000	BLA HARRISHP BOB & ELIZABETH HWY
			182	001 01-04-0000-0004-0000	WOLFE G SHERY
			194	001 01-04-0000-0004-0000	WENTZ BRAN L & REBECCA J HWY
			180	001 01-04-0000-0004-0000	WENTZ BRAN L & REBECCA J HWY
			302	001 01-04-0000-0004-0000	CSX TRANSPORTATION INC TAX DEPT C-813
			226	001 48-04-0000-0011-0000	COUNTY ROUTE 76 STILLHOUSE RUN ROAD

REFERENCE NOTES
 1. Property lines as shown taken from deeds, tax maps, and field locations. A full boundary survey is not expressed or implied. All bearings are based on grid North. Ownership taken from public records Taylor & 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 425 feet of center of eas.
 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
-----	SURVEYED SURFACE TRACT LINE
-----	MINERAL TRACT BOUNDARY
-----	COUNTY BOUNDARY LINE
⊙ #H	PROPOSED WELL HEAD
⊙	EXISTING WELL HEAD (Active)
⊙	EXISTING WELL HEAD (Plugged)
⊙	EXISTING WELL HEAD (Abandoned)
⊙	EXISTING WELL HEAD (Near Dr-Res)
⊙	LANDING POINT/BOTTOM HOLE
⊙	SURFACE OWNER

FILE#: 22078-002
 SHEET#: 3 of 3
 SCALE: NO SCALE
 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* 10/20/2022
 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: FIBER CLARENCE & CONSTATCE IRREVOCABLE TRUST
 OIL & GAS ROYALTY OWNER: SEE WW-6A1

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

TARGET FORMATION: MARCELLUS

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

DATE: OCTOBER 20, 2022
 OPERATOR'S WELL #: FIBER TFP22 # 202
 API WELL #: 47 091
 STATE COUNTY PERMIT

ELEVATION: 1,240.5'
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 905 ±
 ACREAGE: 1,080 ±

ESTIMATED DEPTH: TVD: 7,756.5' TMD: 29,992.1'

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

12/02/2022



Diversified

101 MCQUISTON DRIVE
Jackson Center, Pa 16133

RE: Fiber TFP22 Pad

Dear Sir/Madam,

Arsenal Resources has developed a Marcellus pad, the Fiber TFP22, well #202, located in Taylor County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,800 TVD) and existing conventional natural gas wells included in the attached well list for which you are believed to be the operator.

Arsenal Resources anticipates conducting hydraulic fracturing at the Fiber TFP22 Pad, well #202, during the 2nd Quarter of 2024. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our newly planned wells. Plats for each well on this pad are attached.

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

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

Please feel free to contact me at 724-940-1137 with any questions or comments. You may also contact the WV Office of Oil and Gas at 304-926-0499.

Sincerely,

A handwritten signature in black ink that reads 'RSchweitzer'.

Ross Schweitzer
Sr. Director of Permitting

4709101372



ARSENAL

R E S O U R C E S

SITE SAFETY PLAN

FIBER TFP22 PAD, WELL #202

911 Address:

1232 Sinsel Hollow Rd
Flemington, WV 26347

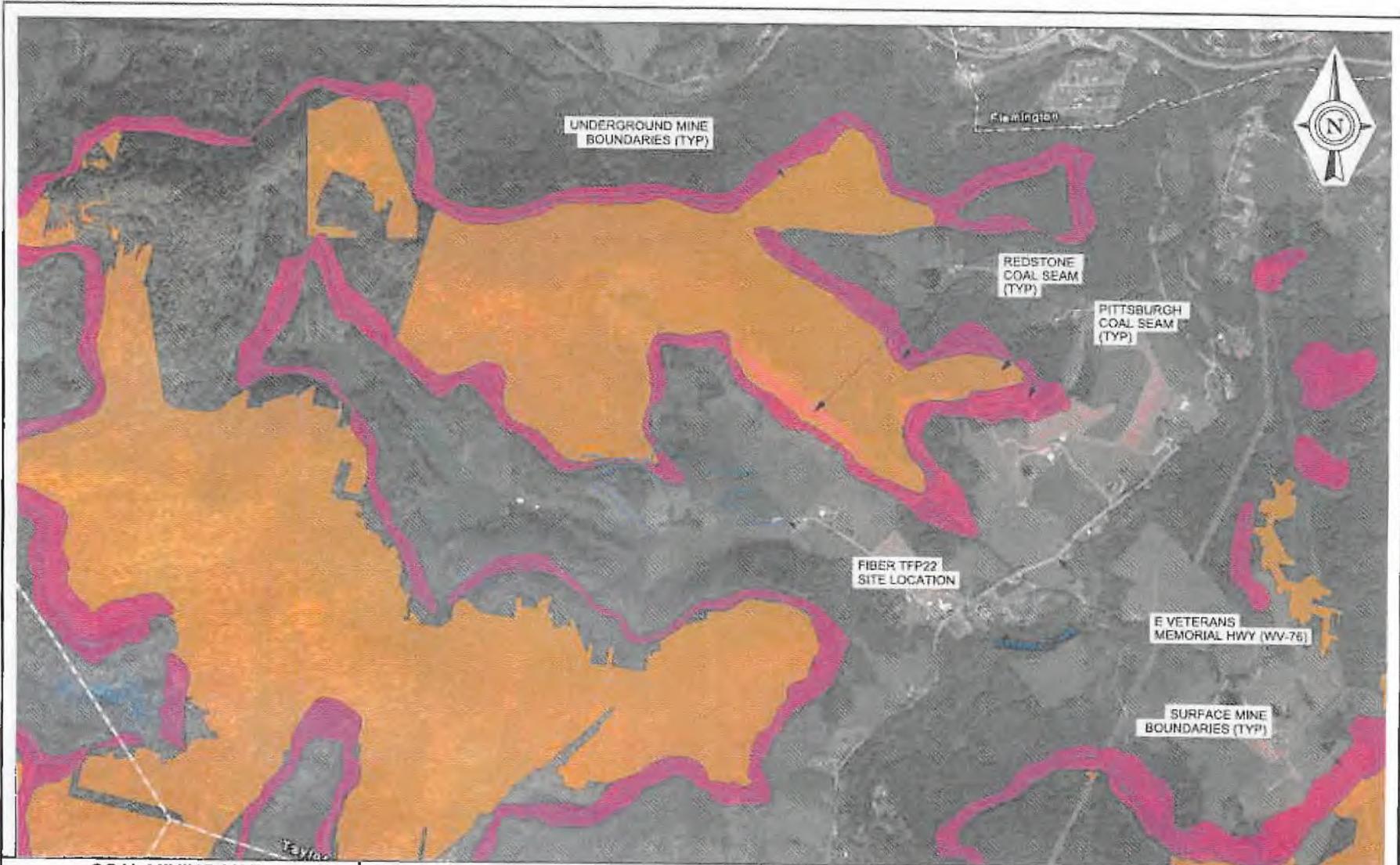
RECEIVED
Office of Oil and Gas

OCT 24 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: 2022.10.19 09:20:48 -0400



COAL MINING MAP
 made for
ARSENAL RESOURCES
FIBER TFP22
TAYLOR COUNTY, WEST VIRGINIA

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

REFERENCE: WEST VIRGINIA GEOLOGICAL AND ECONOMICAL SURVEY (WVGES)

SCALE: 0 1000 FT.

SURFACE HOLE SURVEYED 39° 17' 30" (NAD27)
 BOTTOM HOLE SURVEYED 39° 12' 30" (NAD27)

11,042' 6,448'

Latitude: (NAD27)

(NAD83-WVN) US SURVEY FT.

TOP HOLE
 N) 274901.245
 E) 1765218.766
 LANDING POINT
 N) 274319.070
 E) 1765067.970
 BOTTOM HOLE
 N) 253710.390
 E) 1792195.450

(NAD83-LAT/LONG) DECIMAL

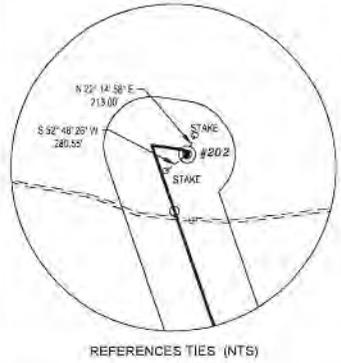
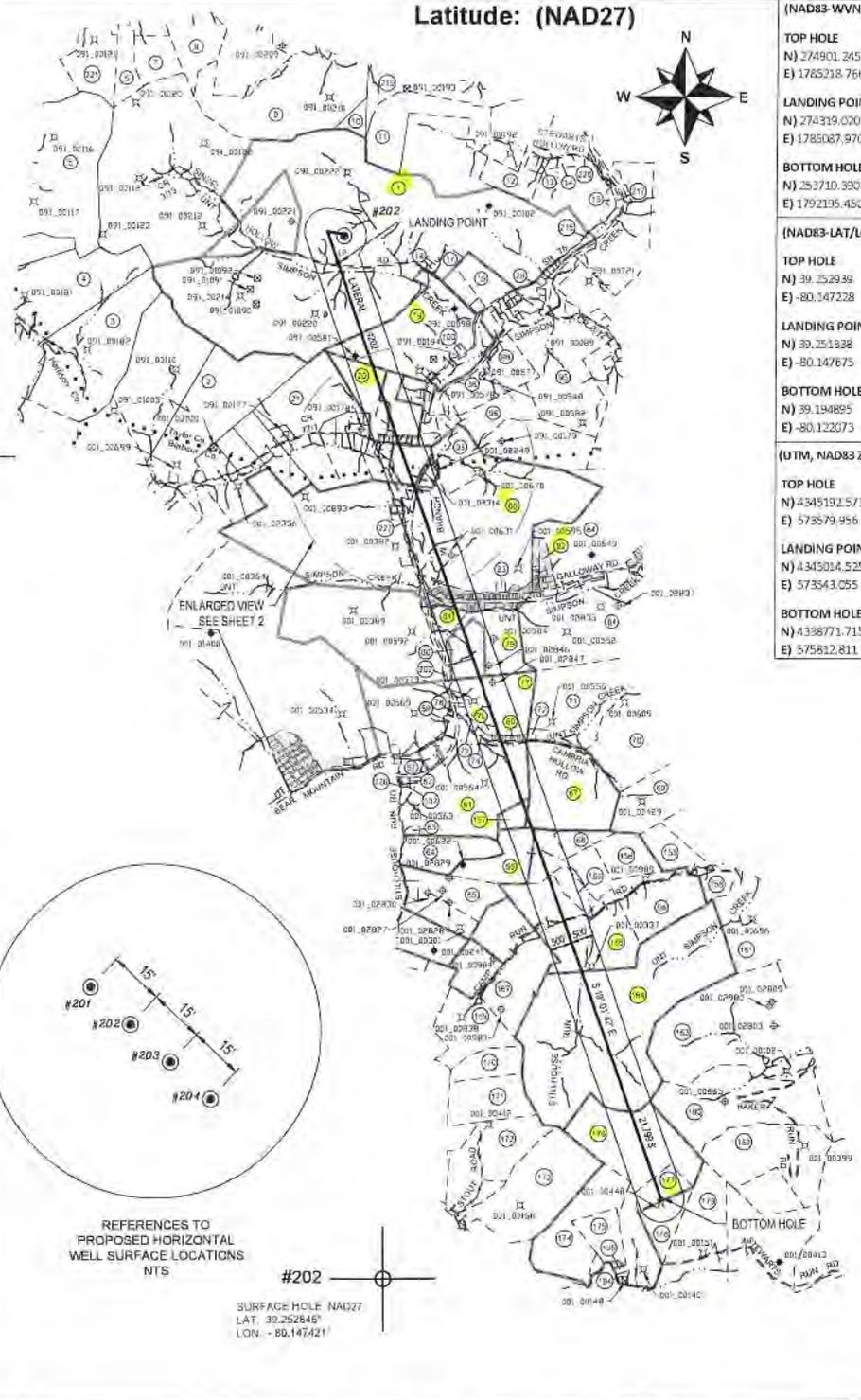
TOP HOLE
 N) 39.252939
 E) -80.147228
 LANDING POINT
 N) 39.251338
 E) -80.147675
 BOTTOM HOLE
 N) 39.194895
 E) -80.132673

(UTM, NAD83 ZONE 17) METER

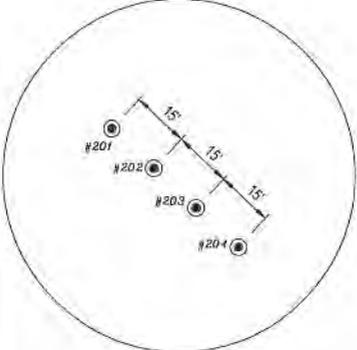
TOP HOLE
 N) 4345192.573
 E) 573579.956
 LANDING POINT
 N) 4345014.525
 E) 573543.055
 BOTTOM HOLE
 N) 4338771.715
 E) 575812.811

5,084'
 14,094'

Longitude: (NAD27)



REFERENCES TIES (NTS)



REFERENCES TO PROPOSED HORIZONTAL WELL SURFACE LOCATIONS NTS

#202
 SURFACE HOLE NAD27
 LAT. 39.252646°
 LON. -80.147421°

REFERENCE NOTES
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LEGEND

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- STREAM
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- BUFFER
- PROPERTY LINE
- SURVEYED SURFACE TRACT LINE
- MINERAL TRACT BOUNDARY
- COUNTY BOUNDARY LINE
- #11 PROPOSED WELL HEAD
- ⊗ EXISTING WELL HEAD (Active)
- ⊕ EXISTING WELL HEAD (Plugged)
- ⊖ EXISTING WELL HEAD (Abandoned)
- ⊘ EXISTING WELL HEAD (Never Drilled)
- LANDING POINT/BOTTOM HOLE
- Ⓢ SURFACE OWNER

FILE#: 22078-002
 SHEET#: 1 of 3
 SCALE: 1" = 4000'
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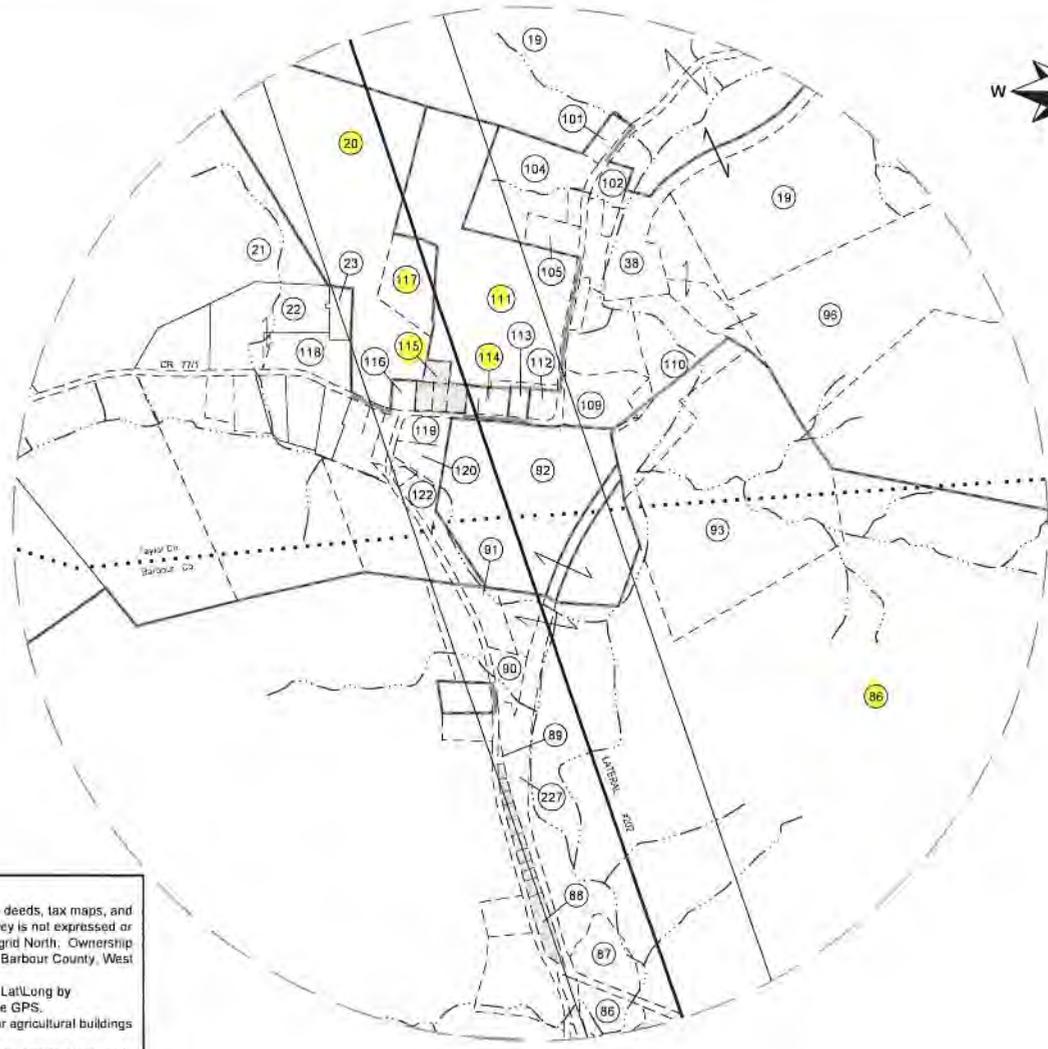
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 OIL & GAS ROYALTY OWNER: SEE WW-6A1
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
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 TARGET FORMATION: MARCELLUS
 WELL OPERATOR: ARSENAL RESOURCES
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090



DATE: OCTOBER 20, 2022
 FIBER TFP22
 OPERATOR'S WELL #: # 202
 API WELL #: 47 091 01372
 STATE COUNTY PERMIT
 ELEVATION: 1,240.5'
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 905 ±
 ACREAGE: 1,080 ±
 ESTIMATED DEPTH: TVD: 7,756.5' TMD: 29,992.1'
 DESIGNATED AGENT: NATHAN SKEEN
 ADDRESS: 633 MAIN STREET
 CITY: BRIDGEPORT STATE: WV ZIP: 26330

BOTTOM HOLE SURVEYED 80° 05' 00" (NAD27)
 SURFACE HOLE SURVEYED 80° 07' 30" (NAD27)

12/02/2022



ENLARGED PLAT AREA

REFERENCE NOTES
 1. Property lines as shown taken from deeds, tax maps, and field locations. A full boundary survey is not expressed or implied. All bearings are based on grid North. Ownership taken from public records Taylor & 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
	SURVEYED SURFACE TRACT 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)
	LANDING POINT/BOTTOM HOLE
	SURFACE OWNER

FILE#: 22078-002
 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:
 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 20, 2022
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Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: SIMPSON CREEK
 COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT
 SURFACE OWNER: FIBER CLARENCE & CONSTATCE IRREVOCABLE TRUST
 OIL & GAS ROYALTY OWNER: SEE WW-6A1

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12/02/2022

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

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 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	091	46-04-0011-0001-0000	FIBER CLARENCE & CONSTATCE IRRREVOCABLE TRUST	3	033	17-15-0351-0013-0000	GCSTREAM LLC
19	091	46-04-0011-0017-0003	SIMPSON JOHN E	4	033	17-15-0351-0012-0000	GCSTREAM LLC
20	091	46-04-0011-0009-0000	WATKINS DOUGLAS R & ANNA M & SURV	5	033	17-15-0331-0027-0000	JOHNSON RENEE
111	091	46-04-0011-0010-0000	JENKINS THOMAS & KARRY & SURV	6	091	46-04-0008-0022-0000	GRIPPIN JAMES S & ELAINE M & SURV
117	091	46-04-0011-0010-0002	WATKINS DOUGLAS R & ANNA M & SURV	7	091	46-04-0008-0023-0000	GRAY RANDALL & RITA
115	091	46-04-011A-0008, 10, 11 & 12-0000	PISINO JOSEPH & DANA STEWART & SURV	8	091	46-04-0008-0035-0000	MARKS BETTY P
114	091	46-04-011A-0014-0000	ASTOR M P CHURCH	9	091	46-04-0008-0029-0000	COALQUEST DEVELOPMENT LLC
92	091	46-04-0011-0011-0000	SMITH JOANN V & GARY M BROWN JR&SURV	10	091	46-04-0008-0105-0000	BLOSSER PATRICK B ETAL ROBERT C & CLINTON D & SURV
227	001	01-09-0009-0023-0000	CSX TRANSPORTATION, INC	11	091	46-04-0008-0081-0000	SIMMONS HUNTER
86	001	01-09-0009-0017-0002	WILFONG DENVER S JR	12	091	46-04-0008-0083-0000	PRATT JANICE&CHARLENE MOORE & CURTIS & DAVID STEWART
82	001	PLAN OF LOTS	GALLOWAY SUBDIVISION	13	091	46-04-0008-0084-0000	PRATT JANICE & CHARLENE MOORE & CURTIS & DAVID STEWART
81	001	01-09-0009-0022-0001	MONTGOMERY RANDALL M & JEAN E, HWS	15	091	46-04-0009-0037-0001	CRISS DAVID & CATHY & SURV
79	001	01-09-0012-0005-0000	ZACAVISH FRANK	16	091	46-04-0011-0019-0000	SALTIS STEVEN A & NICOLE J & SURV
77	001	01-09-0012-0007-0000	ZACAVISH FRANK D	17	091	46-04-0011-0017-0000	GRONAU JOHN R & KAITLYN N & SURV
76	001	01-09-0012-0007-0005	HIGGINS HOWARD TOD	18	091	46-04-0011-0001-0001	ANDERSON DANIEL & KAREN & SURV
60	001	PLAN OF LOTS	BEAR MOUNTAIN SUBDIVISION NO. 1	21	091	46-04-0011-0005-0005	BECKWITH LUMBER COMPANY
81	001	01-09-0012-0010-0000	VUKOVICH ROBERT K & SHELIA MARIE VUKOVICH & CAROL A SPEAR	22	091	46-04-0011-0005-0008	SMITH ROBIN M
157	001	01-09-0013-0008-0000	MCCAULEY RONALD D	23	091	46-04-0011-0008-0000	ASTOR CEMETERY
67	001	01-09-0012-0008-0000	GOFF ROBERT H III & TINA M HWS	29		RIGHT-OF-WAY	STATE ROUTE 76
66	001	01-09-0012-0009-0001	TRIPLE L LAND & MINERALS	38	091	46-04-0011-0029-0000	SIMPSON JOHN
165	001	01-09-0012-0008-0000	MCCAULEY RONALD D	39	091	46-04-0011-0029-0000	SIMPSON JOHN
164	001	01-09-0022-0008-0000	YOCCO WILLIAM FRANK L/E THEN: WILLIAM M & SAMUEL D YOCCO	65	091	46-04-0011-0024-0000	DUNN ROSS A
176	001	01-04-0004-0001-0000	WENTZ BRIAN L & REBECCA J HWS	88	091	46-04-0011-0013-0000	RIFLE JERALD L & LINDA SUE & SURV
177	001	01-04-0004-0002-0000	WENTZ BRIAN L & REBECCA J HWS	98	091	46-04-0011-0017-0002	MCKINNEY THOMAS R JR & LINDA L
				100	091	46-04-0011-0017-0001	SIMPSON JOHN E
				101	091	46-04-011A-0002-0000	GAINES GROVER L
				102	091	46-04-011A-0003-0000	RADTKA RYAN C
				104	091	46-04-011A-0001-0000	WESTFALL ERIC & KEVIN R TEPHABOCK & SURV
				105	091	46-04-011A-0008-0000	STREETS DAVID B & MARY
				109	091	46-04-0011-0011-0002	COSTELLO RAYMOND GARY
				110	091	46-04-0011-0028-0000	CSX TRANSPORTATION INC
				112	091	46-04-011A-0018-0000	THE BOARD OF EDUCATION OF THE COUNTY OF TAYLOR
				113	091	46-04-011A-0015-0000	JENKINS THOMAS R & KARRY E L
				116	091	46-04-011A-0009-0000	KNAPP JERREL SR
				117	091	46-04-0011-0010-0002	WATKINS DOUGLAS R & ANNA M & SURV
				118	091	46-04-0011-0005-0004	SEESE BRENDA KAY & JOANN V SMITH & SURV
				119	091	46-04-011A-0030-0000	HALL CANDANCE S & CLYDE A JR
				120	091	46-04-011A-0021-0000	SMALLRIDGE BETTY (F) & MARY STUTLER (LIFE)
				122	091	46-04-011A-0026-0000	PISINO GARY L
				215	091	46-04-0009-0057-0000	BRAKE WILLIAM C & CRYSTAL R & SURV
				217	091	46-04-0009-0035-0000	PRITT HOY LYNN & PATRICIA LYNN & SURV
				219	091	46-04-0008-0080-0000	BLOSSER PATRICK B & ROBERT C & CLINTON D & SURV
				220		RIGHT-OF-WAY	COUNTY ROUTE 3/10 STEWARTS HOLLOW ROAD
				221	091	46-04-0008-0021-0000	MILLARD CARLYLE G
				2	001	01-09-0009-0002-0000	STEWART FARM LLC
				57	001	01-09-0012-0011-0000	HENLINE EDWARD
				59	001	01-09-0012-0004-0005	NEWMAN JERRY & JENNIFER WROS
				60	001	PLAN OF LOTS	BEAR MOUNTAIN SUBDIVISION NO. 1
				62	001	01-09-012B-0046-0002	HILL MARK ALLEN & DEBRA K HWS
				63	001	01-09-0012-0052-0000	MONTGOMERY BRADFORD EUGENE & GEORGIA, HWS
				64	001	01-09-0012-0051-0002	BECKWITH LUMBER CO
				65	001	01-09-0012-0052-0001	TRIPLE L LAND & MINERALS
				68	001	01-09-0012-0009-0000	MCCAULEY RONALD D
				69	001	01-09-0013-0003-0000	SLOGAR LORENA HRS ET ALS
				70	001	01-09-0013-0001-0000	BECKWITH LUMBER CO INC
				71	001	01-09-0012-0059-0000	BECKWITH LUMBER CO INC
				72	001	01-09-0012-0007-0001	SMINK JEANNETTE REBECCA
				74	001	01-09-0012-0007-0003	HIGGINS HOWARD G TOD
				75	001	01-09-0012-0007-0004	ZACAVISH FRANK D
				78	001	01-09-0012-0008-0000	WALLACE CORLEY CEMETERY
				80	001	01-09-0012-0005-0001	ZACAVISH TREVOR M
				82	001	PLAN OF LOTS	GALLOWAY SUBDIVISION
				83	001	01-09-009A-0017-0000	CLEAVINGER CEMETERY
				84	001	01-09-0008-0001-0000	BECKWITH LUMBER CO INC
				86	001	01-09-0008-0017-0002	WILFONG DENVER S JR
				87	001	01-09-0009-0014-0000	SALTIS STEVE JR & AMY R WVS
				88	001	PLAN OF LOTS	GALLOWAY JUNCTION SUBDIVISION
				89	001	01-09-0008-0001-0000	FARRIS BETTY
				90	001	01-09-0009-0010-0000	SALTIS STEVE & TWYLA HWS
				91	001	01-09-0009-0009-0000	PISINO GARY L & SUSAN CHRISTIAN
				132	001	01-09-012B-0046-0003	MILLER ASHLEY
				155	001	01-09-0013-0004-0000	WENTZ BRIAN L & REBECCA J
				156	001	01-09-0013-0005-0000	MORGAN DELORES SUE & PATTY JEAN DUFFIELD
				158	001	01-09-0013-0007-0000	JACOBS WM SR & SHIRLEY L/E WM E JR, GERRY & DONNA JACOBS
				161	001	01-09-0013-0009-0000	JACOBS WILLIAM E JR & GERRY L
				163	001	01-09-0021-0001-0000	WOLFE G BRENT
				166	001	01-09-0012-0057-0000	CORDER SHIRLEY Y
				167	001	01-09-0012-0054-0001	MYER JON & REBEKKAH HWS
				169	001	01-09-0022-0007-0000	WARE SHIRLEY LIVING TRUST
				170	001	01-04-0003-0021-0000	BURNER GARNET HRS C/O BEVERLY J POE
				171	001	01-04-0003-0022-0000	LEACH BENJAMIN, CHLOIE, TOSHA, BOORED DAKOTA & CHARLTON EDWARD
				172	001	01-04-0003-0023-0000	WENTZ BRIAN L & REBECCA J WS
				173	001	01-04-0003-0025-0000	WENTZ BRIAN L & REBECCA J WS
				174	001	01-04-0003-0026-0002	WEBSTER RONALD W & KELLY N WRS
				175	001	01-04-0003-0028-0001	TRAVIS BRANDON A & TONYA S
				180	001	01-09-0021-0002-0000	BLANKENSHIP BOB & ELIZABETH, HWS
				182	001	01-04-0004-0009-0000	WOLFE G BRENT
				194	001	01-04-0004-0005-0000	WENTZ BRIAN L & REBECCA J HWS
				195	001	01-04-0004-0004-0000	WENTZ BRIAN L & REBECCA HWS
				202	001	01-09-0009-0024-0000	CSX TRANSPORTATION, INC TAX DEPT C-910
				226		RIGHT-OF-WAY	COUNTY ROUTE 7/2 STILLHOUSE RUN ROAD

REFERENCE NOTES

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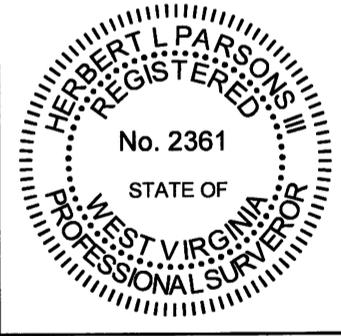
LEGEND

- PROPOSED WELL LATERAL
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- LANDING POINT/BOTTOM HOLE
- ⊙ SURFACE OWNER

FILE#: 22078-002
 SHEET#: 3 of 3
 SCALE: NO SCALE
 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 10/20/2022
 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 20, 2022
 FIBER TFP22 OPERATOR'S WELL #: # 202
 API WELL #: 47 091 0312
 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: FIBER CLARENCE & CONSTATCE IRRREVOCABLE TRUST
 OIL & GAS ROYALTY OWNER: SEE WW-6A1

ELEVATION: 1,240.5'
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 905 ±
 ACREAGE: 1,080 ±

- 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
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 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090

ESTIMATED DEPTH: TVD: 7,756.5' TMD: 29,992.1'
 DESIGNATED AGENT: NATHAN SKEEN
 ADDRESS: 633 MAIN STREET
 CITY: BRIDGEPORT STATE: WV ZIP: 26330

SURFACE HOLE SURVEYED 39° 17' 30" (NAD27)
 BOTTOM HOLE SURVEYED 39° 12' 30" (NAD27)

11,042'

5,448'

Latitude: (NAD27)

(NAD83-WVN) US SURVEY FT.

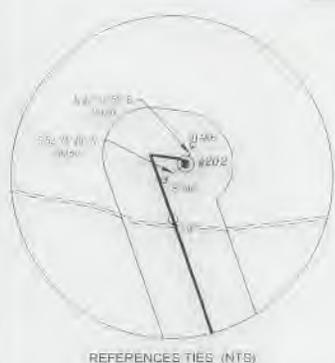
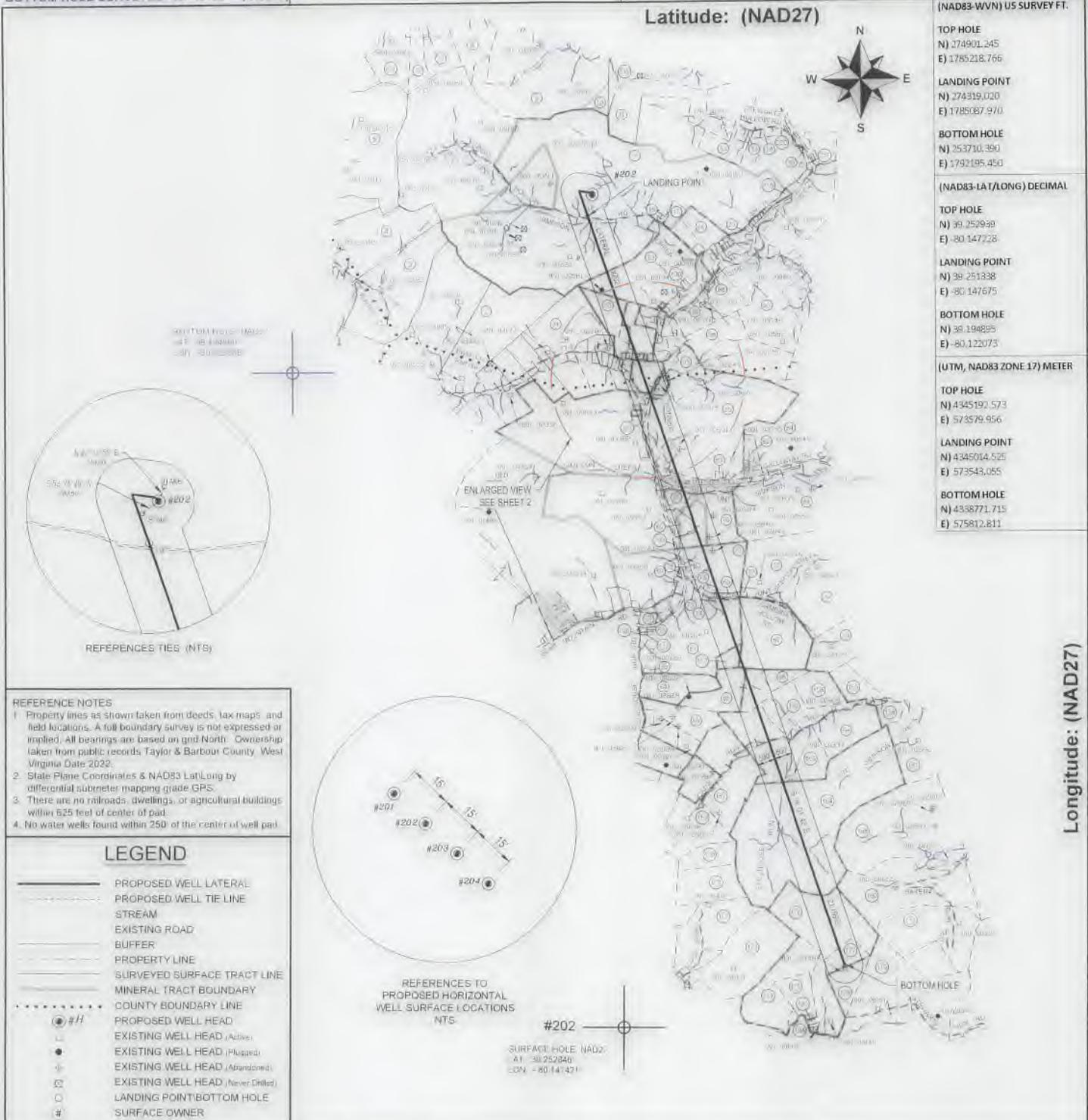
TOP HOLE
 N) 174901.345
 E) 1785218.766
 LANDING POINT
 N) 274319.020
 E) 1785087.970

BOTTOM HOLE
 N) 253710.390
 E) 1792195.450
 (NAD83-LAT/LONG) DECIMAL

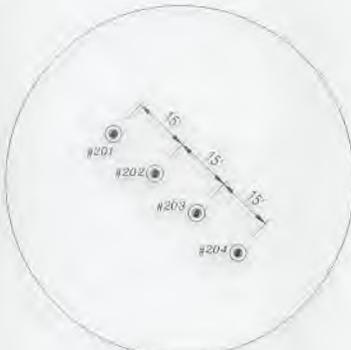
TOP HOLE
 N) 39.252939
 E) -80.147728
 LANDING POINT
 N) 39.251338
 E) -80.147575

BOTTOM HOLE
 N) 38.194895
 E) -80.122073
 (UTM, NAD83 ZONE 17) METER

TOP HOLE
 N) 4345192.573
 E) 573579.956
 LANDING POINT
 N) 4345014.525
 E) 573543.055
 BOTTOM HOLE
 N) 4338771.715
 E) 575812.811



REFERENCES TIES (NTS)



REFERENCES TO PROPOSED HORIZONTAL WELL SURFACE LOCATIONS (NTS)

#202
 SURFACE HOLE NAD27:
 AT: 38.252939
 EN: -80.147728

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Longitude: (NAD27)

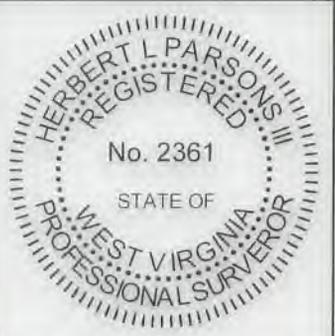
5,064'

14,094'

FILE# 22078-002
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- ⊗ EXISTING WELL HEAD (Nayer Cribbe)
- LANDING POINT/BOTTOM HOLE
- # SURFACE OWNER

FILE#: 22078-002

SHEET#: 2 of 3

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TICK SCALE: 1" = 2000'

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ADDRESS: 633 MAIN STREET
CITY: BRIDGEPORT STATE: WV ZIP: 26330

12/02/2022

SURFACE PARCEL OWNER INFORMATION			ADJOINER PARCEL OWNER INFORMATION				
ID#	DEP#	PARCEL NUMBER	OWNER NAME	ID#	DEP#	PARCEL NUMBER	OWNER NAME
1	091	46-04-0011-0001-0000	FIBER CLARENCE & CONSTATCE IRREVOCABLE TRUST	3	033	17-15-0051-0001-0000	COSTREAM LLC
19	091	46-04-0011-0007-0003	SIMPSON JOHN E	4	033	17-15-0051-0002-0000	COSTREAM LLC
20	091	46-04-0011-0009-0000	WATKINS DOUGLAS R & ANNA M & SURV	5	033	17-15-0351-0007-0000	JOHNSON RENEE
111	091	46-04-0011-0010-0000	JENKINS THOMAS & KARRY & SURV	6	091	46-04-0008-0023-0000	GRIPPIN JAMES S & ELAINE M & SURV
117	091	46-04-0011-0010-0002	WATKINS DOUGLAS R & ANNA M & SURV	7	091	46-04-0008-0025-0000	GRAY RANDALL & RITA
115	091	46-04-011A-0006-16-11 & 12-0000	PISINO JOSEPH & DANA STEWART & SURV	8	091	46-04-0008-0028-0000	MARKS BETTY P
114	091	46-04-011A-0014-0000	ASTOR M P CHURCH	9	091	46-04-0008-0029-0000	COALQUEST DEVELOPMENT LLC
90	091	46-04-0011-0011-0000	SMITH JOHN V & GARY M BROWN JR & SURV	10	091	46-04-0008-0105-0000	BLOSSER PATRICK B ETAL ROBERT C & CLINTON D & SURV
227	001	01-09-0009-0023-0000	CSX TRANSPORTATION INC	11	091	46-04-0008-0081-0000	SIMPSON JOHN E
86	001	01-09-0009-0017-0002	WILFONG DENVER S JR	12	091	46-04-0008-0085-0001	PRATT JAMIE & CHARLENE MOORE & CURTIS & DAVID STEWART
82	001	PLAN OF LOTS	GALLOWAY SUBDIVISION	13	091	46-04-0008-0084-0003	PRATT JAMIE & CHARLENE MOORE & CURTIS & DAVID STEWART
81	001	01-09-0009-0022-0001	MONTGOMERY RANDALL M & JEAN E HWS	15	091	46-04-0008-0097-0001	CRISS DAVID & CATHY & SURV
79	001	01-09-0012-0005-0000	ZACAVISH FRANK D	16	091	46-04-0011-0019-0000	SALTIS STEVE A & NICOLE J & SURV
77	001	01-09-0012-0007-0000	ZACAVISH FRANK D	17	091	46-04-0011-0017-0000	CROBALI JOHN K & KATHY M & SURV
76	001	01-09-0012-0007-0005	HIGGINS HOWARD TOD	18	091	46-04-0011-0001-0001	ANDERSON DANIEL & KAREN & SURV
60	001	PLAN OF LOTS	BEAR MOUNTAIN SUBDIVISION NO. 1	21	091	46-04-0011-0005-0005	BECKWITH LUMBER COMPANY
61	001	01-09-0012-0010-0000	VUKOVICH ROBERT K & SHEILA MARIE VUKOVICH & CAROL A SPEAR	22	091	46-04-0011-0005-0006	SMITH ROBIN M
157	001	01-09-0013-0006-0000	MCCAULEY RONALD D	23	091	46-04-0011-0005-0000	ASTOR CEMETERY
67	001	01-09-0012-0008-0000	GOFF ROBERT H III & TINA M HWS	29		RIGHT-OF-WAY	STATE ROUTE 78
66	001	01-09-0012-0009-0001	TRIPLE L LAND & MINERALS	38	091	46-04-0011-0029-0000	SIMPSON JOHN
185	001	01-09-0012-0005-0000	MCCAULEY RONALD D	83	091	46-04-0011-0009-0000	SIMPSON JOHN
184	001	01-09-0022-0004-0000	YODCO WILLIAM FRANK L/E THEN WILLIAM M & SAMUEL D YODCO	96	091	46-04-0011-0024-0000	DUNN ROSS A
176	001	01-04-0004-0001-0000	WENTZ BRIAN L & REBECCA J HWS	98	091	46-04-0011-0015-0000	RUFFLE JERALD L & LINDA SUE & SURV
177	001	01-04-0004-0002-0000	WENTZ BRIAN L & REBECCA J HWS	28	091	46-04-0011-0017-0002	MCKINNEY THOMAS R JR & LINDA I
				100	091	46-04-0011-0011-0001	SIMPSON JOHN E
				101	091	46-04-011A-0002-0000	GAINES GROVER L
				102	091	46-04-011A-0003-0000	RADTKA RYAN C
				104	091	46-04-011A-0001-0000	WESTFALL ERIC & KEVIN R TEPHABOCK & SURV
				105	091	46-04-011A-0008-0000	STREETS DAVID B & MARY
				109	091	46-04-0011-0011-0002	COSTELLO RAYMOND GARY
				110	091	46-04-0011-0028-0000	CSX TRANSPORTATION INC
				112	091	46-04-011A-0018-0000	THE BOARD OF EDUCATION OF THE COUNTY OF TAYLOR
				113	091	46-04-011A-0015-0000	JENKINS THOMAS R & KARRY E L
				119	091	46-04-011A-0009-0000	KNAPP JERREL SR
				117	091	46-04-0011-0010-0002	WATKINS DOUGLAS R & ANNA M & SURV
				118	091	46-04-0011-0005-0004	SEESE BRENDA KAY & JOANN V SMITH & SURV
				119	091	46-04-011A-0030-0000	HALL CANDANCE S & CLYDE A JR
				120	091	46-04-011A-0021-0000	SMALLRIDGE BETTY (F) & MARY STUTLER (LIFE)
				122	091	46-04-011A-0029-0000	PISINO GARY L
				215	091	46-04-0008-0057-0000	BRAKE WILLIAM C & CRYSTAL R & SURV
				217	091	46-04-0009-0035-0000	PRITT HOY LYNN & PATRICIA LYNN & SURV
				219	091	46-04-0008-0080-0000	BLOSSER PATRICK B & ROBERT C & CLINTON D & SURV
				220		RIGHT-OF-WAY	COUNTY ROUTE 910 STEWARTS HOLLOW ROAD
				221	091	46-04-0008-0021-0000	MILLARD CARLYLE G
				1	001	01-09-0009-0002-0000	STEWART FARM LLC
				57	001	01-09-0012-0011-0000	HENLINE EDWARD
				58	001	01-09-0012-0004-0005	NEWMAN JERRY & JENNIFER WROS
				60	001	PLAN OF LOTS	BEAR MOUNTAIN SUBDIVISION NO. 1
				62	001	01-09-012B-0046-0002	HILL MARK ALLEN & DEBRA K HWS
				63	001	01-09-0012-0052-0000	MONTGOMERY BRADFORD EUGENE & GEORGIA HWS
				64	001	01-09-0012-0051-0002	BECKWITH LUMBER CO
				65	001	01-09-0012-0052-0001	TRIPLE L LAND & MINERALS
				68	001	01-09-0012-0009-0000	MCCAULEY RONALD D
				69	001	01-09-0013-0003-0000	SLOGAR LORENA HRS ET AL
				70	001	01-09-0013-0001-0000	BECKWITH LUMBER CO INC
				71	001	01-09-0012-0059-0000	BECKWITH LUMBER CO INC
				72	001	01-09-0012-0007-0001	SMINK JEANNETTE REBECCA
				74	001	01-09-0012-0007-0003	HIGGINS HOWARD TOD
				75	001	01-09-0012-0007-0004	ZACAVISH FRANK D
				78	001	01-09-0012-0006-0000	WALLACE CORLEY CEMETERY
				80	001	01-09-0012-0005-0001	ZACAVISH TREVOR M
				82	001	PLAN OF LOTS	GALLOWAY SUBDIVISION
				83	001	01-09-009A-0017-0000	CLEAVENGER CEMETERY
				84	001	01-09-0008-0001-0000	BECKWITH LUMBER CO INC
				89	001	01-09-0009-0017-0002	WILFONG DENVER S JR
				87	001	01-09-0009-0014-0000	SALTIS STEVE JR & AMY R WS
				88	001	PLAN OF LOTS	GALLOWAY JUNCTION SUBDIVISION
				89	001	01-09-009B-0001-0000	FARRIS BETTY
				90	001	01-09-0009-0010-0000	SALTIS STEVE & TWYLLA HWS
				91	001	01-09-0009-0009-0000	PISINO GARY L & SUSAN CHRISTIAN
				192	001	01-09-012B-0046-0003	MILLER ASHLEY
				155	001	01-09-0013-0004-0000	WENTZ BRIAN L & REBECCA J
				156	001	01-09-0013-0005-0000	MORGAN DELORES SUE & PATTY JEAN DUFFIELD
				158	001	01-09-0013-0007-0000	JACOBS WM SR & SHIRLEY DE-WM E JR GERRY & DONNA JACOBS
				161	001	01-09-0013-0004-0000	JACOBS WILLIAM E JR & GERRY L
				163	001	01-09-0021-0001-0000	WOLFE G BRENT
				166	001	01-09-0012-0005-0000	CORDER SHIRLEY Y
				167	001	01-09-0012-0004-0001	MYER JON & REBEKKAH HWS
				169	001	01-09-0002-0007-0000	WARE SHIRLEY LIVING TRUST
				170	001	01-04-0003-0021-0000	BURNER GARNET HRS C/O BEVERLY J POE
				171	001	01-04-0003-0022-0000	LEACH BENJAMIN CHLOE TODSHA BOORED DAKOTA & CHARLTON EDWARD
				172	001	01-04-0003-0023-0000	WENTZ BRIAN L & REBECCA J WS
				173	001	01-04-0003-0025-0000	WENTZ BRIAN L & REBECCA J WS
				174	001	01-04-0003-0026-0002	WEBSTER RONALD W & KELLY N WRS
				175	001	01-04-0003-0026-0001	TRAVIS BRANDON A & TONYA S
				180	001	01-09-0021-0002-0000	BLANKENSHIP BOB & ELIZABETH HWS
				182	001	01-04-0004-0009-0000	WOLFE S BRENT
				194	001	01-04-0004-0005-0000	WENTZ BRIAN L & REBECCA J HWS
				195	001	01-04-0004-0004-0000	WENTZ BRIAN L & REBECCA J HWS
				202	001	01-09-0008-0024-0000	CSX TRANSPORTATION INC TAX DEPT C-910
				226		RIGHT-OF-WAY	COUNTY ROUTE 72 STILLHOUSE RUN ROAD

REFERENCE NOTES
 1. Property lines as shown taken from deeds, tax maps, and field locations. A full boundary survey is not expressed or implied. All bearings are based on grid North. Ownership taken from public records Taylor & Boone 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
- SURVEYED SURFACE TRACT LINE
- MINERAL TRACT BOUNDARY
- COUNTY BOUNDARY LINE
- #11 PROPOSED WELL HEAD
- EXISTING WELL HEAD (Active)
- EXISTING WELL HEAD (Inactive)
- EXISTING WELL HEAD (Borehole)
- EXISTING WELL HEAD (Reveal (filled))
- LANDING POINT/BOTTOM HOLE
- # SURFACE OWNER

FILE#: 22078-002
 SHEET#: 3 of 3
 SCALE: NO SCALE
 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* 10-20-2022
 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: FIBER CLARENCE & CONSTATCE IRREVOCABLE TRUST
 OIL & GAS ROYALTY OWNER: SEE WW-6A1



DATE: OCTOBER 20, 2022
 OPERATOR'S WELL #: FIBER TFP22 # 202
 API WELL #: 47 091 **D1372**
 STATE COUNTY PERMIT

ELEVATION: 1,240.5'
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 905 ±
 ACREAGE: 1,080 ±

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: 7,756.5' TMD: 29,992.1'

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

12/02/2022

**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
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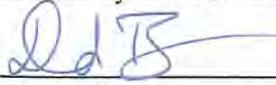
See Attached

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

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

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

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

Well Operator: 
 By: Dave Boyer
 Its: Director of Geology & Development Planning

Attachment to WW-6A1, Fiber TFP 22 S 202

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
1 (00005213)	Chester Sinsel and Frances Sinsel, his wife	Union Drilling Inc	12.50%	35/488	1,080
	Union Drilling Inc	Equitable Resources Exploration Inc		9/427	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		10/79	
	Equitable Resources Energy Company	Enervest East Limited Partnership		22/181	
	Enervest East Limited Partnership	The Houston Exploration Company		27/99	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		27/426	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		31/427	
19 (00008821)	Evelyn H Bailey, widow	Eastern American Energy Corporation	12.50%	40/547	127
	Eastern American Energy Corporation	Energy Corporation of America		314/435	
	Energy Corporation of America	Greylock Production LLC		36/618	
	Greylock Production LLC	Mar Key LLC		37/684	
19 (00008822)	Ruth Bailey, widow	Eastern American Energy Corporation	12.50%	40/566	127
	Eastern American Energy Corporation	Energy Corporation of America		314/435	
	Energy Corporation of America	Greylock Production LLC		36/618	
	Greylock Production LLC	Mar Key LLC		37/684	
19 (00008823)	Leone Casseday, widow	Eastern American Energy Corporation	12.50%	40/562	127
	Eastern American Energy Corporation	Energy Corporation of America		314/435	
	Energy Corporation of America	Greylock Production LLC		36/618	
	Greylock Production LLC	Mar Key LLC		37/684	
20 and 117 (00006662)	Douglas R Watkins and Anna M Watkins, his wife	PDC Mountaineer LLC	15.00%	65/534	25.42

Attachment to WW-6A1, Fiber TFP 22 S 202

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	PDC Mountaineer LLC	River Ridge Energy LLC		8/541	
111 (00006704)	Thomas Jenkins and Karry Jenkins, his wife	PDC Mountaineer LLC	15.00%	65/487	16.23
	PDC Mountaineer LLC	River Ridge Energy LLC		8/541	
115 (00008188)	Joseph M Pisino AKA Joseph Pisino and Dana S Stewart	Mar Key LLC	15.00%	69/192	1.14
114 (00008656)	Astor United Methodist Church	Mar Key LLC	12.50%	69/682	0.71723
92 (00008497)	Bernard Lee Flynn Jr, a married man dealing in his sole and separate interest	Mar Key LLC	15.00%	69/574	17.45
92 (00008524)	Joann V Smith, married dealing in her sole and separate property and Gary Michael Brown Jr, married dealing in her sole and separate property	Mar Key LLC	15.00%	69/588	17.45
227, 86, 82 (00005950)	Lillian Wilson Post, widow	Cumberland & Allegheny Gas Company	12.50%	40/242	400
	Cumberland & Allegheny Gas Company	Union Drilling Inc & Allerton Miller		46/347	
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration Inc		325/219	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Fuel Resources Production & Development Company		116/81	

Attachment to WW-6A1, Fiber TFP 22 S 202

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	Fuel Resources Production & Development Company	The Houston Exploration Company		383/187	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		447/129	
81 (00005894)	Virginia C McDonald, single	Union Drilling Inc & Allerton Miller	12.50%	47/434	177
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration Inc		325/219	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Fuel Resources Production & Development Company		116/81	
	Fuel Resources Production & Development Company	The Houston Exploration Company		383/187	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		447/129	
79 (00005929)	Virginia C McDonald, single	Union Drilling Inc & Allerton Miller	12.50%	47/443	114
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration Inc		325/219	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Fuel Resources Production & Development Company		116/81	
	Fuel Resources Production & Development Company	The Houston Exploration Company		383/187	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		447/129	
77, 76, 60, 61 (00005895)	George C Law et al	Cumberland & Allegheny Gas Company	12.50%	40/242	313

Attachment to WW-6A1, Fiber TFP 22 S 202

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	Cumberland & Allegheny Gas Company	Union Drilling Inc & Allerton Miller		46/347	
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration Inc		325/219	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Fuel Resources Production & Development Company		116/81	
	Fuel Resources Production & Development Company	The Houston Exploration Company		383/187	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		447/129	
157 (00005695)	Draper Mc Cauley Jr and Alberta Mc Cauley his wife; Joseph L Mc Cauley and Arbutis Mc Cauley his wife	Union Drilling Inc	12.50%	77/580	181
	Cumberland & Allegheny Gas Company	Union Drilling Inc & Allerton Miller		46/347	
	Union Drilling Inc	Equitable Resources Exploration Inc		325/219	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Enervest East Limited Partnership		129/524	
	Equitable Resources Energy Company	Fuel Resources Production & Development Company		116/81	
	Fuel Resources Production & Development Company	The Houston Exploration Company		383/187	
	Enervest East Limited Partnership	The Houston Exploration Company		138/1	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		447/129	

Attachment to WW-6A1, Fiber TFP 22 S 202

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
67 (00008938)	Triple L Land and Minerals	Mar Key LLC	12.50%	Pending	81.4
66, 165 (00005696)	Mabel Cleavenger, single	Cumberland & Allegheny Gas Company	12.50%	46/405	100
	Cumberland & Allegheny Gas Company	Union Drilling Inc & Allerton Miller		46/347	
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration Inc		325/219	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Fuel Resources Production & Development Company		116/81	
	Fuel Resources Production & Development Company	The Houston Exploration Company		383/187	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		447/129	
164 (00005915)	Bott Yocco and Virginia Yocco his wife	Cumberland & Allegheny Gas Company	12.50%	46/44	277
	Cumberland & Allegheny Gas Company	Union Drilling Inc & Allerton Miller		46/347	
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration Inc		325/219	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Fuel Resources Production & Development Company		116/81	
	Equitable Resources Energy Company	Enervest East Limited Partnership		129/524	
	Fuel Resources Production & Development Company	The Houston Exploration Company		383/187	

Attachment to WW-6A1, Fiber TFP 22 S 202

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	Enervest East Limited Partnership	The Houston Exploration Company		138/1	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		447/129	
176, 177 (00005699)	R H Nutter & Kathleen Nutter his wife	Cumberland & Allegheny Gas Company	12.50%	40/236	165
	Cumberland & Allegheny Gas Company	Union Drilling Inc & Allerton Miller		46/347	
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration Inc		325/219	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Enervest East Limited Partnership		129/524	
	Equitable Resources Energy Company	Fuel Resources Production & Development Company		116/81	
	Fuel Resources Production & Development Company	The Houston Exploration Company		383/187	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		139/48	
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC		447/129	

Agreement to Drill, Complete and Operate Oil & Gas Wells

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

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

[Signature Page Follows]

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

ARSENAL RESOURCES LLC

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

RIVER RIDGE ENERGY, LLC

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

RIVER RIDGE HOLDINGS, LLC

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

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

West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business Organization Detail

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SENECA-UPSHUR PETROLEUM, LLC

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

Organization Information			
Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction		Capital Stock
Charter County		Control Number	0
Charter State	WV	Excess Acres	0
At Will Term	A	Member Managed	MBR
At Will Term Years		Par Value	
Authorized Shares		Young Entrepreneur	Not Specified

12/02/2022

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

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

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

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

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

Annual Reports	
Filed For	
2020	
2019	
2018	
2017	
2016	
2015	
2014	
2013	
2012	
2011	

2010
2009
2008
2007
2006
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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

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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	
Filed For	
2020	
2019	
2018	

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

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MEMORANDUM OF OIL AND GAS LEASE, EASEMENT AND RIGHT-OF-WAY

State of West Virginia

County Barbour

Lessor: Triple L Land and Minerals, LLC
Lessor's Address: 1203 Raccoon Run Rd, Salem, WV 26426

Lessee: Mar Key, LLC
Lessee's Address: 6031 Wallace Road Extension, Suite 101
Wexford, PA 15090

Date Executed: 10/14/2022

Effective Date: 10/16/2022

As of the Effective Date stated above, Lessors, named above, executed and delivered to Lessee, name above, an Oil And Gas Lease, Easement and Right-of-Way (the "Agreement") in which Lessors granted, leased, and let to Lessee lands (the "Lands") located in the County and State named, described as follows:

All that certain tract of land in Pleasant District, Barbour County being a total of 81.73 acres, more or less, and known as Tax Parcel # 47-001-9-12-8 and unmapped 3 ac and being part of the same land described in Deed Book 353, at Page 116, dated 9/16/1994 and recorded in the Recorder's Office of said County, containing 81.73000 acres and conveyed to Lessor by Richard Kaufman and Barbara Hagen by Deeds dated 10/14/22.

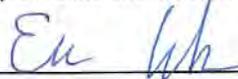
The Agreement grants Lessee, the exclusive right to explore for, produce and market oil, gas and other hydrocarbons from the Lands during the term of the Agreement, as provided for in the Agreement. Lessee's rights are limited to all depths between eight hundred feet (800') above the top of the Marcellus Shale Formation to eight hundred feet (800') below the base of the Marcellus Shale Formation

The Agreement is for a primary term of One (1) year from the Effective Date stated above, and as long thereafter as oil, gas or other minerals are produced from the lands described above, or lands pooled therewith, according to and by the terms and provisions of the Agreement between Lessor and Lessee. The Agreement, with all of its terms, covenants and other provisions, is referred to and incorporated into this Memorandum for all purposes.

This Memorandum of Oil and Gas Lease, Easement and Right-of-Way is executed by Lessor and Lessee and placed of record in the County in which the Lands are located for the purpose of placing all persons on notice of the existence of the Agreement which Agreement is not, at the request of both parties, being placed of record.

WITNESS:

LESSORS:
Triple L Land and Minerals, LLC



By: Eric Cochran
Its: President

LESSEE:
Mar Key, LLC



By: Jon Sheldon
Its: SVP & COO

12/02/2022

ACKNOWLEDGMENT

STATE OF WEST VIRGINIA)
) SS:
COUNTY OF HARRISON)

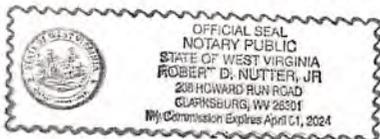
On this the 16th day of October, 2022, before me, the undersigned authority, personally appeared Eric Cochran, who acknowledged himself to be the President of Triple L Land and Minerals, LLC and that he as such being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the Corporation.

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

My Commission Expires: Apr 1, 2024

Signature/Notary Public: [Signature]

Name/Notary Public (print): Robert D Nutter Jr.



ACKNOWLEDGMENT

COMMONWEALTH OF PENNSYLVANIA)
) SS:
COUNTY OF ALLEGHENY)

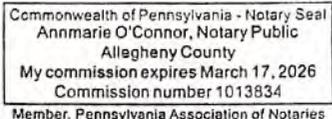
On this the 17th day of October, 2022, before me, the undersigned officer personally appeared Jon Sheldon, who acknowledged himself to be the SVP & COO of Mar Key, LLC and as such SVP and COO, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing his name as SVP & COO.

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

My Commission Expires: 3/17/2026

Signature/Notary Public: [Signature]

Name/Notary Public (print): Annmarie O'Connor



PREPARED BY & RETURN TO:
MAR KEY, LLC
6031 WALLACE RD EXT, STE 101
WEXFORD, PA 15090

Barbour County
Corale L. Kaufman, Clerk
Instrument 271357
10/21/2022 @ 09:49:20 AM
AGREEMENT 011.8345
Book 155 @ Page 10
Pages Recorded 2
Recording Cost \$ 12.00
12/02/2022



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; Fiber TFP 22

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

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

12/02/2022

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

Date of Notice Certification: 10/20/2022

API No. 47- _____ - _____

Operator's Well No. 202

Well Pad Name: Fiber TFP 22

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: _____
County: <u>Taylor</u>	UTM NAD 83 Northing: _____
District: <u>Flemington</u>	Public Road Access: _____
Quadrangle: <u>Rosemont</u>	Generally used farm name: <u>Fiber</u>
Watershed: <u>Simpson Creek</u>	

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

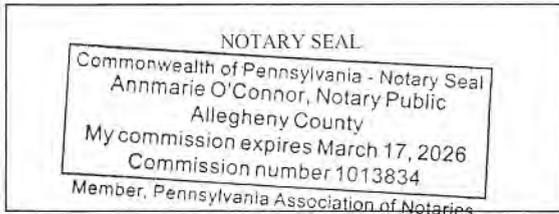
<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked=""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

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

Certification of Notice is hereby given:

THEREFORE, I 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 Ext Suite 101</u>
By:	<u>Dave Boyer</u> <i>[Signature]</i>		<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 20th day of October 2022
Annmarie 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED
 OCT 24 2022
 WVI

**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: 10/20/22 **Date Permit Application Filed:** 10/20/22

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:

RECEIVED
Office of Oil and Gas

OCT 24 2022

WV Department of
Environmental Protection

SURFACE OWNER(s)

Name: CFS Farms LLC
Address: P.O. Box 297
Flemington, WV 26347

Name: _____
Address: _____

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

Name: CFS Farms LLC
Address: P.O. Box 297
Flemington, WV 26347

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: See attached
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: CFS Farms LLC
Address: P.O. Box 297
Flemington, WV 26347

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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 water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A
(8-13)

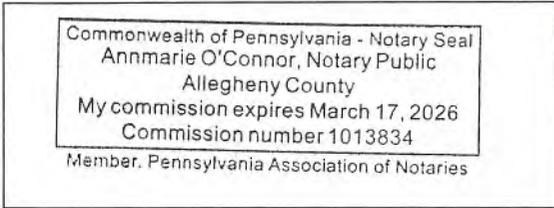
API NO. 47- _____ - _____
OPERATOR WELL NO. 202
Well Pad Name: Fiber TFP 22

Notice is hereby given by: *[Signature]*
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 20th day of October 2022
[Signature] Notary Public
My Commission Expires 3/17/2026

Arsenal Resources
Fiber TFP 22
WW-6A – Notice of Application, Attachment

Coal Owner or Lessee:

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

Martha J. Bobella
10 Howard Street, Apt A.
Grafton, WV 26354

OCMAHRR LLC
4620 Simpson Rd
Grafton, WV 26354

RECEIVED
Office of Oil and Gas

OCT 24 2022

WV Department of
Environmental Protection

12/02/2022

OWNER	Tax Map ID	Decimal Degrees (NAD83)		State Plane NAD83 WVVI (US Feet)	
		Latitude	Longitude	Northing	Easting
A CTS FARMS LIMITED LIABILITY CO	04 11-00C-1	39.5389056	-80.1482547	173251.50	1784732.28

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Office of Oil and Gas
OCT 24 2022

WV Department of
Environmental Protection

FIBER TFP 22
Water Purveyors
Legend
 1500' Radius
 Parcel

Potential Water Purveyor's

Project: Fiber TFP22
County: Taylor
State: West Virginia

The following surface owners may have water supplies within 1,500 feet of the
Fiber TFP22 well pad location:

	Name	Tax Map ID	Address
A	CFS FARMS LIMITED LIABILITY CO	04- 11-0001	PO Box 297, Flemington, WV 26347

REC'D
Office of Statewide Planning

OCT 24 2012

WV
Environmental Protection

12/02/2022

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: 11/15/2017 **Date of Planned Entry:** 11/22/2017

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: CFS Farms LLC
Address: P.O. Box 297
Flemington, WV 26347
Name: _____
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: See Attached
Address: _____

MINERAL OWNER(s)

Name: See Attached
Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), 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: _____	Approx. Latitude & Longitude: <u>39.252738, -80.146991</u>
County: _____	Public Road Access: _____
District: _____	Watershed: _____
Quadrangle: _____	Generally used farm name: _____

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: *RSchweitzer* Address: _____
Telephone: _____
Email: _____ Facsimile: _____

Oil and Gas Privacy Notice:

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

Arsenal Resources
Fiber TFP 22
WW-6A3 – Notice of Entry for Plat Survey, Attachment

Mineral Owner(s):

Robert Sinsel ✓
32 Countryside Dr.
Hendersonville, NC 287929498

Patricia Ann Saltis ✓
649 Easy St.
Bridgeport, WV 26330

Sandra Sinsel
450 Cherry St.
Bridgeport, WV 26330 ✓

Charles E. Pryor
606 Stout St.
Bridgeport, WV 26630 ✓

Thomas W. Brohard Jr. Heirs:

- 1.) % Charlotte McGinnis, ✓
259 Littleton Quarter
Williamsburg, VA 23185
- 2.) % Thomas W. Brohard III ✓
81905 Mountain View Lane
LaQuinta CA 92253

Alma Muir Testamentary Trust ✓
Alma May Brohard Muir
C/O Woodlands Bank, 2450 Third St
Williamsport, PA 17701

Michael C. Colebank ✓
Michael C. & Marlene Colebank
592 Black Cherry Dr
Fairmont, WV 26554

Vietta Fleming Hawkins ✓
Vietta Fleming & Frank Hawkins
613 Worthington Dr
Bridgeport, WV 26330

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Office of Oil and Gas
OCT 24 2022
WV Department of
Environmental Protection

12/02/2022

Mineral Owner(s) continued:

A. Brooks Fleming Heirs:

1. % Verr M. Hinkle
P.O. Box 2121
Buckhannon WV 26201 ✓
2. % Jeffrey C. Hinkle
P.O. Box 2663
Buckhannon WV 26201 ✓
- 3.) % Judy Mae Rodgers
436 Clemens Road
Anacoco, LA 71403-8406 ✓
- 4.) % Mark Lee Waldo
10 Gum Street
Buckhannon, WV 26201 ✓
- 5.) % Michael Max Waldo
857 Fishing Camp Road
Buckhannon, WV 26201 ✓

Coal Owner or Lessee:

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

Martha J. Bobella
10 Howard Street, Apt A.
Grafton, WV 26354 ✓

OCMAHRR LLC
4620 Simpson Rd
Grafton, WV 26354 ✓



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

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

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

March 22, 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 Elmer Pad, Taylor County
Fiber TFP 22 #202 Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-0687 which has been issued to ARSENAL Resources for access to the State Road for a well site located off Taylor County Route 3/13 SLS MP 0.60.

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
ARSENEL Resources
CH, OM, D-4
File

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

RECEIVED
 OILFIELD Services

OCT 24 2022

Oilfield Services
 Houston, Texas

12/02/2022

RECEIVED
Office of Oil and Gas
OCT 24 2022

EROSION & SEDIMENT CONTROL PLAN

FIBER TFP22 WELL SITE
TAYLOR COUNTY, WEST VIRGINIA
FOR



Ernest L. Reynolds
7-18-18

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	7/18/18	ELR

THIS PLAN AND SPECIFICATIONS CONSTITUTE AN AGREEMENT BETWEEN THE OWNER AND THE ENGINEER. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE USER OF THIS PLAN IS AT ALL TIMES RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL GOVERNMENT AGENCIES. THE USER OF THIS PLAN IS AT ALL TIMES RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL GOVERNMENT AGENCIES.

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	7/18/18	ELR



PROJECT NO. 17078-008
MAY 2018

DIEFFENBAUCH & HRITZ, LLC



NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	7/18/18	ELR

Ernest L. Reynolds
3-30-22



TITLE SHEET
 FIBER TFP22 WELL SITE
 ARSENAL RESOURCES
 DIEFFENBAUCH & HRITZ, LLC
 1

EROSION & SEDIMENT CONTROL PLAN

FIBER TFP22 WELL SITE TAYLOR COUNTY, WEST VIRGINIA FOR



REFERENCE UNITED STATES GEOLOGICAL SURVEY - PHOTOGRAPH AND BROWNIEDWARDS QUADRANGLE, WEST VIRGINIA, 7.5 MINUTE SERIES



PROJECT NO. 17078-008

AUGUST 2018

DIEFFENBAUCH & HRITZ, LLC



LOD SUMMARY			
PANEL	ACREAGE	PERFECT	ACREAGE
COUNTY ROAD 2018 SUBSIDY ROAD	0.111	C18 TANK (WELL CLEARANCE) CD PA-2018-100-000-000	14.936
TOTAL			15.047

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

THE PAD AND LOD (INCLUDING GAS CONTROL FEATURES) IS NOT WITHIN 300 FEET OF A NATURALLY PRODUCING TIGHT GASFORM.

THE PAD AND LOD (INCLUDING GAS 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 100 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 (ACRES)	
ACCESS ROAD	0.111
WELL PAD	14.936
TANK PADS	0.125
STOCKPILE	0.008
TOTAL	15.280
TREE CLEARING	1.86

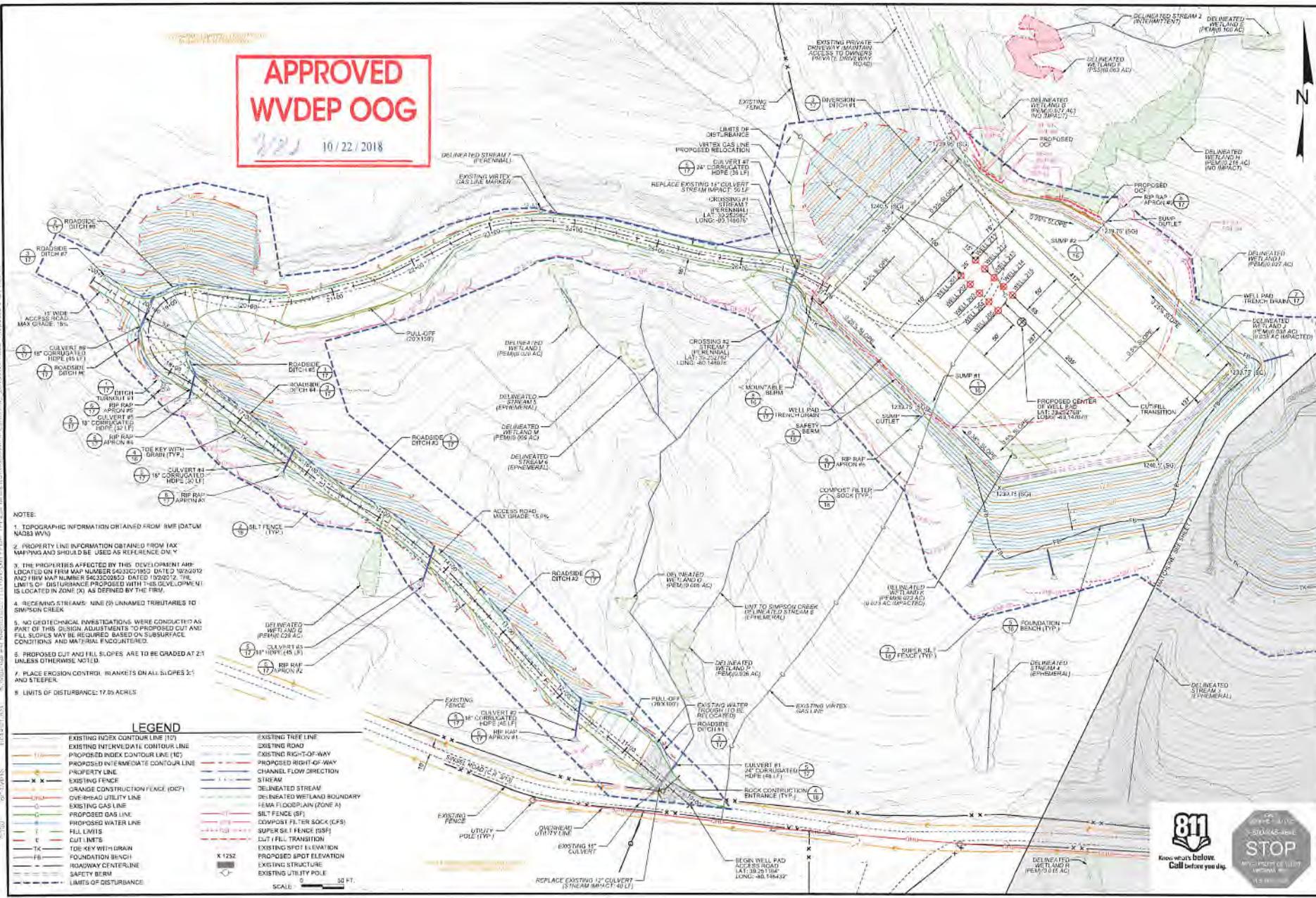
INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	SCALE PLAN
5	OVERALL SITE PLAN
6-7	PROPOSED SITE PLAN
8	ACCESS ROAD PROFILES
9-10	WELL PAD ACCESS ROAD CROSS-SECTIONS
11	TANK PAD ACCESS ROAD CROSS-SECTIONS
12	WELL PAD CROSS-SECTIONS
13	TANK PAD CROSS-SECTIONS
14	STOCKPILE CROSS-SECTIONS
15	REVEGETATION PLAN
16	SITE RESTORATION PLAN
17-18	EAS DETAILS
19	QUANTITIES

Herbert L. Parsons
3-30-22



DATE: 11/22/2018
 DRAWN BY: [blank]
 CHECKED BY: [blank]
 DATE: 11/22/2018
 PROJECT NO.: 17078-008
 SHEET NO.: 1
 TOTAL SHEETS: 19
 PROJECT: FIBER TFP22 WELL SITE
 TITLE SHEET
 1

APPROVED
WVDEP OOG
10/22/2018



- NOTE:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM BME (DATUM NA83 W83)
 2. PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPS AND SHOULD BE USED AS REFERENCE ONLY
 3. THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM MAP NUMBER 5403CC1905 DATED 10/02/2012 AND FIRM MAP NUMBER 5403CC0802 DATED 10/02/12. THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT IS LOCATED IN ZONE (A) AS DENIED BY THE FIRM.
 4. RECEIVING STREAMS: NINE (9) UNNAMED TRIBUTARIES TO SIMPSON CREEK
 5. NO GEOTECHNICAL INVESTIGATIONS WERE CONDUCTED AS PART OF THIS DESIGN. ADJUSTMENTS TO PROPOSED CUT AND FILL SLOPES MAY BE REQUIRED BASED ON SUBSURFACE CONDITIONS AND MATERIAL ENCOUNTERED.
 6. PROPOSED CUT AND FILL SLOPES ARE TO BE GRADED AT 2:1 UNLESS OTHERWISE NOTED.
 7. PLACE EROSION CONTROL BLANKETS ON ALL SLOPES 2:1 AND STEEPER.
 8. LIMITS OF DISTURBANCE: 17.55 ACRES

LEGEND

EXISTING INDEX CONTOUR LINE (10')	EXISTING TREE LINE
EXISTING INTERMEDIATE CONTOUR LINE	EXISTING ROAD
PROPOSED INDEX CONTOUR LINE (10')	EXISTING RIGHT-OF-WAY
PROPOSED INTERMEDIATE CONTOUR LINE	CHANNEL FLOW DIRECTION
PROPERTY LINE	DELINEATED STREAM
EXISTING FENCE	DELINEATED WETLAND BOUNDARY
ORANGE CONSTRUCTION FENCE (CCF)	HEAVY FLOODPLAIN (ZONE A)
OVERHEAD UTILITY LINE	COMPOST FILTER SOCK (CFS)
EXISTING GAS LINE	SUPER SILT FENCE (SSF)
PROPOSED GAS LINE	CUT/FILL TRANSITION
PROPOSED WATER LINE	EXISTING SPOT ELEVATION
FLL LIMITS	PROPOSED SPOT ELEVATION
CUT LIMITS	EXISTING STRUCTURE
TOP KEY WITH DRAIN	EXISTING UTILITY POLE
FOUNDATION BENCH	
ROADWAY CENTERLINE	
SAFETY BERM	
LIMITS OF DISTURBANCE	



PROJECT: FIBER F222 WELL SITE
 CLIENT: ARSENAL
 DATE: 10/22/2018
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]
 PROJECT NO: [Number]
 SHEET NO: 6
 SCALE: 1" = 30 FT.