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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, June 11, 2018  
WELL WORK PERMIT  
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC  
6031 WALLACE ROAD EXTENSION SUITE 603

WEXFORD, PA 15090

Re: Permit approval for TONY'S BRIDGE 201  
47-033-05920-00-00

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: TONY'S BRIDGE 201  
Farm Name: LYNCH FARM LLC.  
U.S. WELL NUMBER: 47-033-05920-00-00  
Horizontal 6A New Drill  
Date Issued: 6/11/2018

# 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

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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.

## PERMIT CONDITIONS

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

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

1) Well Operator: Arsenal Resources      494519412      Harrison      Grant      Mount Clare  
Operator ID      County      District      Quadrangle

2) Operator's Well Number: Tony's Bridge 201      Well Pad Name: Tony's Bridge

3) Farm Name/Surface Owner: Lynch Farm LLC      Public Road Access: County Route 25

4) Elevation, current ground: 1141.1'      Elevation, proposed post-construction: 1140.8'

5) Well Type (a) Gas  Oil  Underground Storage   
Other \_\_\_\_\_  
(b) If Gas Shallow  Deep   
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus Shale, 7148 ft. (TVD Top) - 7248 ft. (TVD Base), 100 ft., 0.5 psi/ft.

8) Proposed Total Vertical Depth: 7223'

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 11,937.7'

11) Proposed Horizontal Leg Length: 3,955.7'

12) Approximate Fresh Water Strata Depths: 25, 200, 215, 250'

13) Method to Determine Fresh Water Depths: Offsetting wells reported water depths (033-04454, 033-04455, 033-04558, 033-04692, 033-04775)

14) Approximate Saltwater Depths: 2300'

15) Approximate Coal Seam Depths: Pittsburgh - 37.5'

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

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?      Yes \_\_\_\_\_ No none known

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

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18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24	New	H-40	94	80'	80' ✓	CTS
Fresh Water	13.375	New	J-55	54.5	350'	350' ✓	CTS
Coal							
Intermediate	9.625	New	J-55	40	2400'	2400' ✓	CTS
Production	5.5	New	P-110	20	11,938	11,938	TOC @ 2,250'
Tubing							
Liners							

*S Dew*  
*3/20/2018*

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, 3% CaCl2	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A, 3% CaCl2	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A, 3% CaCl2	1.29
Production	5.5	8.5-8.75	0.361	12,640	9,500	Class A/50:50 Poz	1.29/1.34
Tubing					5,000		
Liners					N/A		

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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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 9,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 23.82

22) Area to be disturbed for well pad only, less access road (acres): 3.28

23) Describe centralizer placement for each casing string:

24" - No centralizers 13 3/8" - one bow spring centralizer on every other joint 9 5/8" - one bow spring centralizer every third joint from TD to surface 5 1/2" - one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,500'; there will be no centralizers from 2,500 to surface.

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

24" will be circulated to surface. The 13 3/8" casing will be cemented to surface with Class A cement and no greater than 3% CaCl (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A cement, & no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 2,250' (+/- 150' above the casing shoe for the 9 5/8") with Class A and 50/50 Poz cement retarded (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right angle" set) during the plastic phase of the cement set-up.

25) Proposed borehole conditioning procedures:

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

\*Note: Attach additional sheets as needed.

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47 033 059 20

Tony's Bridge #201		
CEMENT ADDITIVES		
	Name	Purpose
Additive #1:	Bentonite	Helping fluid loss, reducing free water
Additive #2:	Calcium Chloride	Accelerator for low temp application
Additive #3:	Celloflake	Loss circulation additive
Additive #4:	Gypsum	Used for thixotropic properties
Additive #5:	Lignosulfonate	Low temp cement retarder
Additive #6:	Naphthalene Based Dispersant	Used to improve rheological properties of cement
Additive #7:	Cellulose	Help with fluid loss

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06/15/2018



WW-9  
(4/16)

API Number 47 - 033 - \_\_\_\_\_  
Operator's Well No. Tony's Bridge 201

4703 05920

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) Brown's Creek of West Fork River Quadrangle Mount Clare

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: Produced water

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 60

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 \_\_\_\_\_)

*SDW  
3/20/2018*

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.

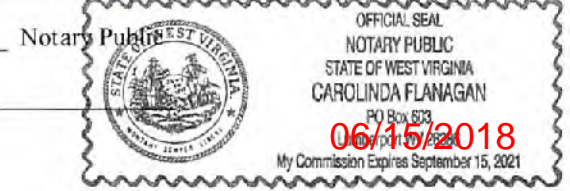
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 *William Veigel*  
Company Official (Typed Name) William Veigel  
Company Official Title Designated Agent

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Environmental Protection

Subscribed and sworn before me this 28<sup>th</sup> day of March, 20 18

*Carolinda Flanagan*  
My commission expires 9/15/2021







**ARSENAL**

R E S O U R C E S

## **SITE SAFETY PLAN**

### **TONY'S BRIDGE #201 WELL PAD**

**911 Address:**

2598 Country Club Road

Mount Clare, WV 26408

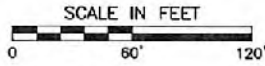
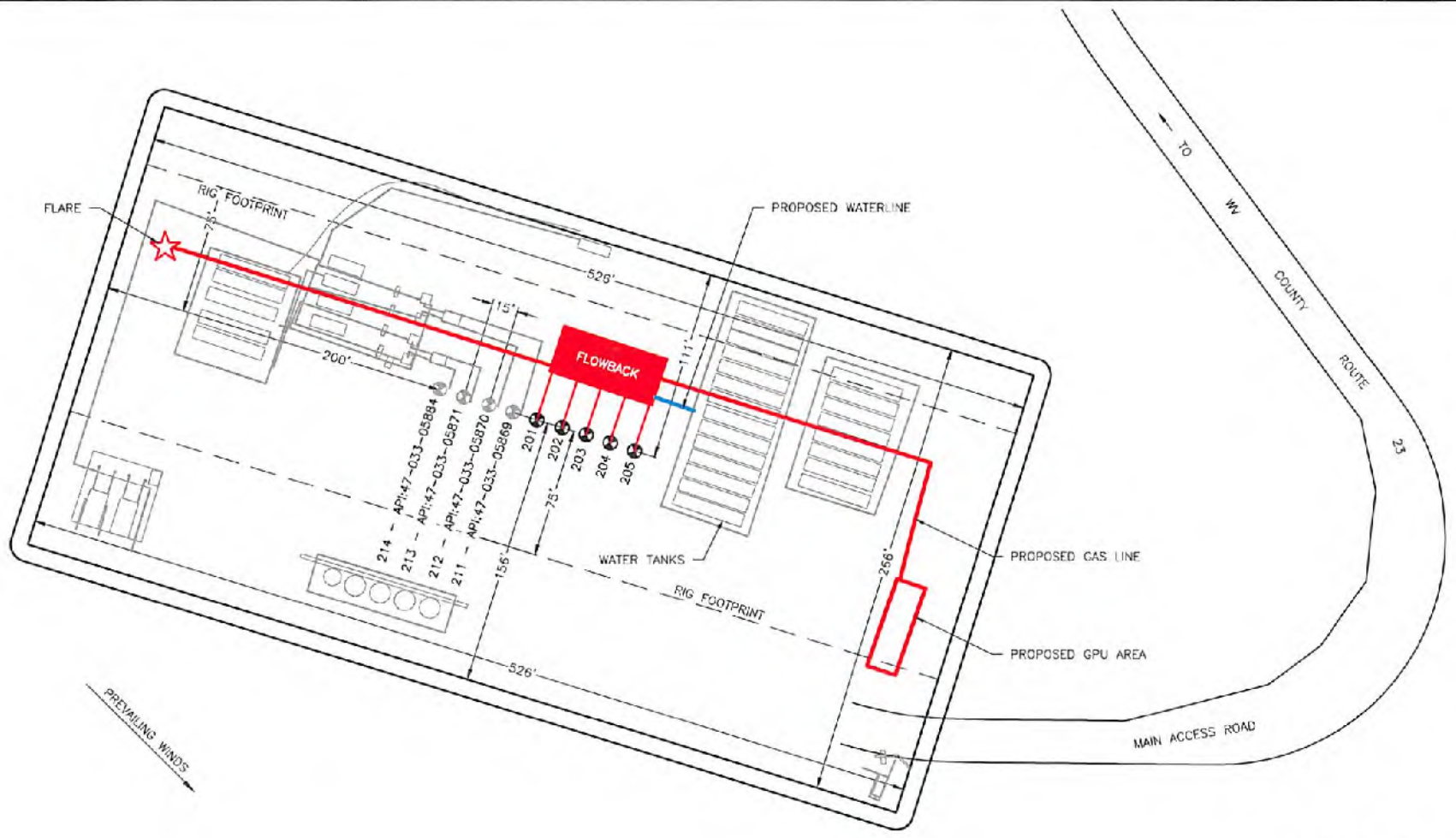
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\\ar-bridgeport\projects\2015\150-191\CAD\DWG\150191-C-01-TONYS BRIDGE PAD LAYOUT DWG.dwg - 20180110.dwg (E:\987) LS (1/23/2018 - 04:06) - LP: 5/20/2018 1:45 PM



**C&E**  
**Civil & Environmental Consultants, Inc.**  
 600 Marketplace Ave · Suite 200 · Bridgeport, WV 26330  
 Ph: 304.933.3119 · Fax: 304.933.3327  
 www.cecinc.com

ARSENAL RESOURCES  
 TONY'S BRIDGE WELL PAD  
 GRANT DISTRICT  
 HARRISON COUNTY, WEST VIRGINIA  
 PERMIT APPLICATION  
 PAD LAYOUT DIAGRAM

DRAWN BY:	DBS	CHECKED BY:	JDR	APPROVED BY:	JDR	FIGURE NO.:	1
DATE:	MAY 2018	DWG SCALE:	1" = 60'	PROJECT NO.:	150-191		

Latitude: 39°15'00" SURFACE HOLE 6608'

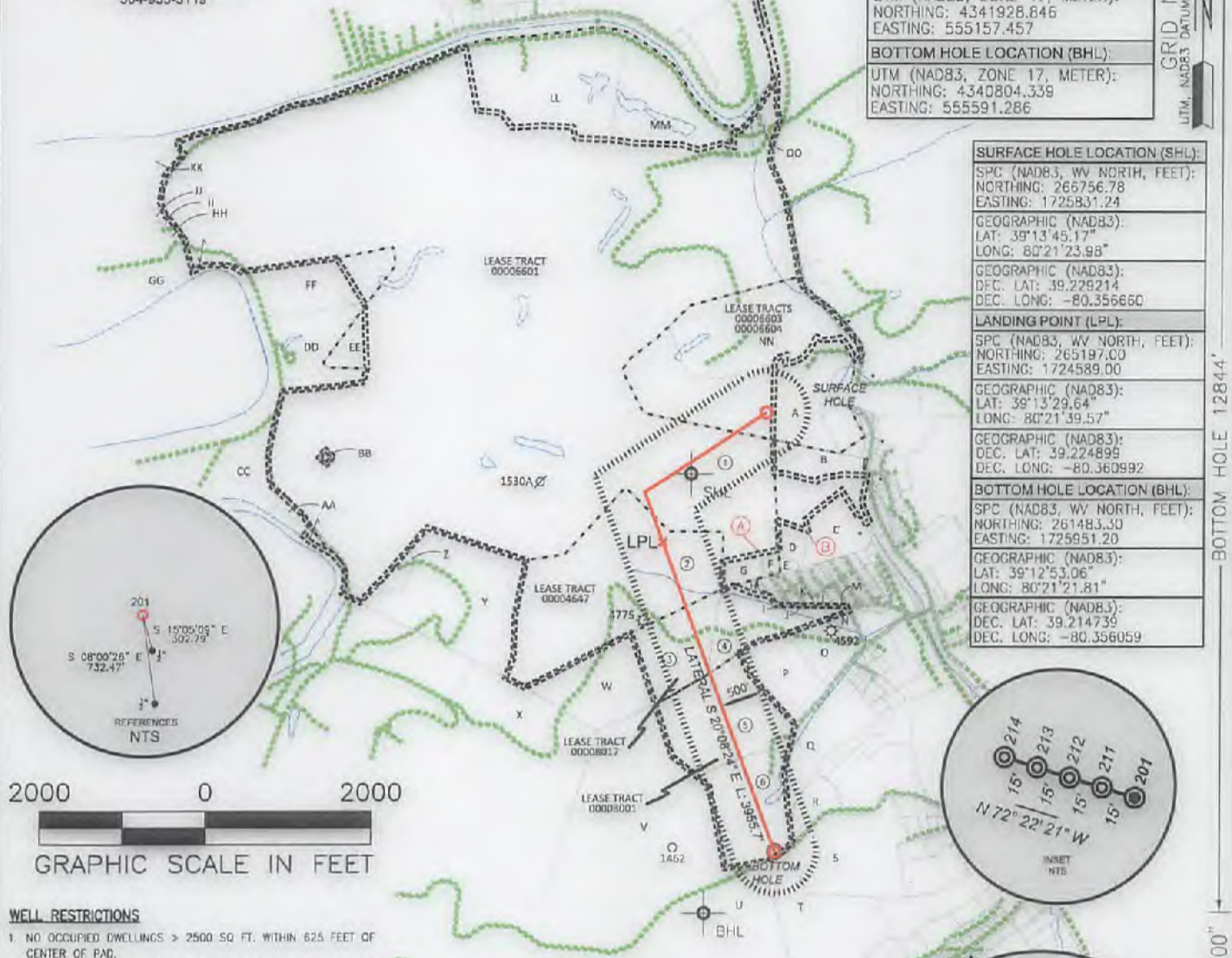
Latitude: 39°15'00" BOTTOM HOLE 6439'



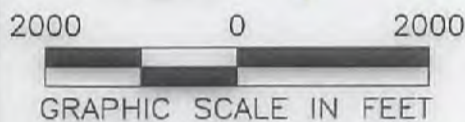
CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 600 MARKETPLACE AVENUE, SUITE 200 BRIDGEPORT, WV 26330 304-933-3119

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METER):
NORTHING: 4342410.343
EASTING: 555528.009
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METER):
NORTHING: 4341928.646
EASTING: 555157.457
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METER):
NORTHING: 4340804.339
EASTING: 555591.286

GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT



<b>SURFACE HOLE LOCATION (SHL):</b>
SPC (NAD83, WV NORTH, FEET):
NORTHING: 266756.78
EASTING: 1725831.24
<b>GEOGRAPHIC (NAD83):</b>
LAT: 39°13'45.17"
LONG: 80°21'23.98"
<b>GEOGRAPHIC (NAD83):</b>
DEC. LAT: 39.229214
DEC. LONG: -80.356660
<b>LANDING POINT (LPL):</b>
SPC (NAD83, WV NORTH, FEET):
NORTHING: 265197.00
EASTING: 1724589.00
<b>GEOGRAPHIC (NAD83):</b>
LAT: 39°13'29.64"
LONG: 80°21'39.57"
<b>GEOGRAPHIC (NAD83):</b>
DEC. LAT: 39.224899
DEC. LONG: -80.360992
<b>BOTTOM HOLE LOCATION (BHL):</b>
SPC (NAD83, WV NORTH, FEET):
NORTHING: 261483.30
EASTING: 1725951.20
<b>GEOGRAPHIC (NAD83):</b>
LAT: 39°12'53.06"
LONG: 80°21'21.81"
<b>GEOGRAPHIC (NAD83):</b>
DEC. LAT: 39.214739
DEC. LONG: -80.356059



**WELL RESTRICTIONS**

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 969 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 800 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

TAX MAP PARCEL SURVEYED LINE COORDINATES (UTM - NAD 83 - ZONE 17, U.S. FOOT)				
	NORTHING	EASTING	LATITUDE	LONGITUDE
A	14245037.380	1822577.229	39.224580	-80.358974
B	14245314.706	1823129.990	39.225331	-80.354805

**NOTES ON SURVEY**

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 991



COMPANY: **ARSENAL RESOURCES**

(4) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY:	1/200
PROVEN SOURCE OF ELEVATION:	SURVEY GRADE GPS (NAVD 88, US FT)

OPERATOR'S WELL #:	201
API WELL #:	47
STATE:	PA
COUNTY:	TONYS BRIDGE
PERMIT:	033

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: BROWN'S CREEK OF WEST FORK RIVER ELEVATION: 1,140.8' PROPOSED

DISTRICT: GRANT DISTRICT COUNTY: HARRISON QUADRANGLE: MOUNT CLARE

SURFACE OWNER: LYNCH FARM LLC ACREAGE: 28.14±

OIL & GAS ROYALTY OWNER: ALMETA L. DAWSON & PATRICIA ANN VORE KOHLER ACREAGE: 148, 132 & 100±

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) ASDRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,223.0 TMD 11,937.7 TMD

WELL OPERATOR: ARSENAL RESOURCES	DESIGNATED AGENT: WILLIAM VEIGEL
ADDRESS: 6031 WALLACE RD, EXT. SUITE 300	ADDRESS: 65 PROFESSIONAL PLACE, SUITE 200
CITY: WEXFORD STATE: PA ZIP CODE: 15090	CITY: BRIDGEPORT STATE: WV ZIP CODE: 26330

<b>LEGEND:</b>	PROPOSED SURFACE HOLE / BOTTOM HOLE	PROPOSED PATH
EXISTING / PRODUCING WELLHEAD	PENETRATED PARCEL	LEASE BOUNDARY
LANDING POINT LOCATION	MAIN ROAD	ADJOINER PROPERTY
EXISTING WATER WELL	WATER	SURVEYED CORNER
EXISTING SPRING		

REVISIONS:	DATE: 03-28-2018
	DRAWN BY: K.E.S.
	SCALE: 1" = 2000'
	DRAWING NO: 150-191
	WELL LOCATION PLAT

06/15/2018

47 033 05920



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
 600 MARKETPLACE AVENUE, SUITE 200  
 BRIDGEPORT, WV 26330  
 304-933-3119

WELL BORE TABLE FOR SURFACE OWNERS		
TRACT	SURFACE OWNER	TAX PARCEL
1	LYNCH FARM LLC	12-346-92
2	CHARLES S. HUFF	12-366-23
3	DEWEY E. AND DEBORAH J. BARKER	12-366-42.2
4	RANDALL L. BARKER	12-366-42
5	ROY A. ECHARD	12-366-33
6	ROY A. ECHARD	12-366-41

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MARY K. MICK	12-367-1
B	MAR KEY LLC	12-367-29
C	MICHAEL L. AND LORI L. JACKSON	12-367-39.1
D	MICHAEL L. AND LORI L. JACKSON	12-367-31
E	JANET COCCHI	12-367-31.1
F	JANET COCCHI	12-366-11.1
G	FREDRIC O. LEWIS	12-366-11.2
H	FREDRIC O. LEWIS	12-366-42.1
I	RANDALL L. BARKER	12-367-39.3
J	CAROL A. BARKER	12-2007-10
K	KENNY L. JEFFRIES	12-2007-29
L	BILLIE DAWN HILEMAN ESTATE	12-2007-70
M	ELIZABETH MARJORIE LAYMAN	12-2007-91
N	DONALD C. GORDON	12-2007-66
O	LEONARD AND LAURA JEFFRIES	12-367-38
P	LEONARD AND LAURA JEFFRIES	12-366-34
Q	SHAUNA KNAPP	12-367-49
R	MIKE ROSS INC	12-367-50
S	ALONZO F. MCCULLOUGH JR & BARBARA WEAVER, ET AL	12-367-68
T	GDS WV HOLDINGS LLC	12-386-37
U	GDS WV HOLDINGS LLC	12-386-36
V	ROBERT WAYNE FLINT II ET AL	20-366-40
W	JOSEPHINE SHREVES	20-366-24
X	RONALD D. AND SANDRA W. KEFAUVER	20-366-32
Y	MICHAEL G. AND LISA A. CRONIN	20-366-22
Z	MICHAEL G. AND LISA A. CRONIN	20-366-22.1
AA	KAPPA SIGMA PI OF WV	20-2903-57
BB	GREATER HARRISON COUNTY PUBLIC SERVICE DISTRICT	20-366-7.1
CC	KAPPA SIGMA PI OF WV	20-2903-56
DD	RUSSEL L. AND DOROTHY L. RIFFLE	20-366-1
EE	RUSSEL L. AND DOROTHY L. RIFFLE	20-366-2
FF	STEVEN W. AND KATHRYN R. HAMRICK	20-366-1.1
GG	JEFFREY C. AND SANDRA R. RUSH	20-2906-54
HH	JOSHUA W. AND KATHY J. BAKER	20-2904-27
II	LARRY Q. AND CAROL L. HIGGINS	20-2904-42
JJ	CHIPPS C. AND DONNA L. PATRICK	20-2904-54
KK	CHIPPS C. AND DONNA L. PATRICK	20-2904-56
LL	CLARKSBURG COUNTRY CLUB	12-346-92.1
MM	CLARKSBURG COUNTRY CLUB	12-346-93.1
NN	MARY K. MICK	12-366-5
OO	LYNCH FARM LLC	12-346-93.2

DM  
6-4-2018

06/15/2018

REVISIONS:	COMPANY:			DATE: 03-28-2018
				DRAWN BY: K.E.S.
	OPERATOR'S	TONYS BRIDGE		SCALE: N/A
	WELL #:	201		DRAWING NO: 150-191
	DISTRICT:	COUNTY:	STATE:	WELL LOCATION PLAT 2
	GRANT DISTRICT	HARRISON	WV	

**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

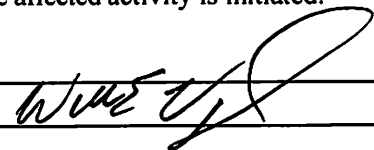
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

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

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

Well Operator: Arsenal Resources  
 By: William Veigel   
 Its: Designated Agent



49 033 05920

Attachment to WW-6A1, Tonys Bridge 201

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
1 (00006603)	Almeta L. Dawson and Donald F. Dawson, her husband	Daniel E. Stalnaker d/b/a CED Energy	12.50%	DB 1454/157 DB 1461/532	100
1 (00006604)	Patricia A. Kohler	Daniel E. Stalnaker d/b/a CED Energy	12.50%	DB 1454/165 DB 1461/530	100
	Daniel E. Stalnaker d/b/a CED Energy	Antero Resources Appalacian Corporation		DB 1462/545	
	Antero Resources Appalacian Corporation	PDC Mountaineer, LLC		DB 1498/1315	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		DB 59/1263	
1 (00006601)	Paul S. Horner, Wallace B. Gribble and W.F. Dunkin, as Trustees	Frank J. Maxwell	12.50%	DB 621/455	1300
	J. Maxwell and Clara G. Maxwell, his wife	W. Brent Maxwell, Jr.		DB 633/234	
	Frank J. Maxwell, widower, and W. Brent Maxwell, Jr., and Marguerite W. Maxwell, his wife,	J. Robert Hornor.		DB 712/173	
	J. Robert Hornor and Mary Louise Hornor, his wife	Marguerite L. Baker and Helen Baker Bolling		DB 714/574	
	Marguerite L. Baker, single, and Helen Baker Bolling, single	J. Robert Hornor.		DB 743/423	
	J. Robert Hornor and Mary Louise Hornor, his wife	Marguerite L. Baker and Helen Baker Bolling		DB 757/51	
	Marguerite L. Baker, single, and Helen Baker Bolling, single	J. Robert Hornor.		DB 757/34	
	J. Robert Hornor and Mary Louise Hornor, his wife	F.S. Kelly, Jr., H. Stanley Butterworth, and Paul Lemann		DB 866/236	
	Frank S. Kelly, Jr.	Corrine Roy Kelley		WB 75/1	

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Attachment to WW-6A1, **Tonys Bridge 201**

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	H. Stanley Butterworth and Paul B. Lemann	Corinne Roy Kelly		DB 959/3	
	Corinne Roy Kelly, widow, individually and as Executrix of Frank S. Kelly, Jr., deceased, and J. Robert Hornor, ancillary administrator c.t.a. Frank S. Kelly, Jr., deceased	Dal-Ken Corporation		DB 992/601	
	Dal-Ken Corporation	Jerry C. Olds		DB 1050/232	
	J. Robert Hornor	Jerry C. Olds		DB 1073/740	
	Jerry C. Olds	Petroleum Resources, Inc.		DB 1139/820	
	Petroleum Resources, Inc.	MBM Interests, Inc.		DB 1400/463	
	Jerry C. Olds and Constance J. Olds, his wife, MBM Investments, Inc., and Bowie, Inc.,	Antero Resources Appalachian Corporation		DB 1458/821	
	Antero Resources Appalachian Corporation	PDC Mountaineer, LLC		DB 1458/1315	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		DB 59/1263	
2 (00004647)	Salvatore A. Oliverio	Genesis Exploration and Production Co., LLC	12.50%	DB 1373/353	73.75
	Genesis Exploration and Production Co., LLC	PDC Mountaineer, LLC		DB 1444/1141	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		DB 59/1263	

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### Agreement to Drill, Complete and Operate Oil & Gas Wells

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Mountaineer Keystone LLC, a West Virginia limited liability company ("Mountaineer Keystone"), PDC Mountaineer, LLC, a Delaware limited liability company ("PDC"), and PDC Mountaineer Holdings, LLC, a Delaware limited liability company ("PDC Holdings"), is effective as of October 15, 2014. (the "Effective Date") and sets forth the terms pursuant to which Mountaineer Keystone will drill, complete and operate the Wells (as defined below) on behalf of PDC and PDC Holdings. Mountaineer Keystone, PDC, and PDC 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 Mountaineer Keystone on the one hand or PDC and PDC Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").
2. **Authorization to Operate:** PDC and PDC Holdings authorize Mountaineer Keystone to undertake and perform, on PDC and PDC 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 PDC or PDC Holdings. PDC, PDC Holdings and Mountaineer Keystone are affiliates with a common parent. Mountaineer Keystone was formed to operate oil and gas leasehold acreage held by PDC, PDC Holdings and certain other affiliates. Mountaineer Keystone 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 PDC or PDC Holdings from time to time as directed by PDC or PDC 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]

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IN WITNESS WHEREOF, Mountaineer Keystone, PDC, and PDC Holdings have caused their duly authorized representatives to execute this Agreement as of the Effective Date.


**MOUNTAINEER KEYSTONE LLC**

By:   
Name: Robert Keel  
Title: CEO

**PDC MOUNTAINEER, LLC**

By:   
Name: Robert Keel  
Title: CEO

**PDC MOUNTAINEER HOLDINGS, LLC**

By:   
Name: Robert Keel  
Title: CEO

**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]

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

**ARSENAL RESOURCES LLC**

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

**RIVER RIDGE ENERGY, LLC**

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

**RIVER RIDGE HOLDINGS, LLC**

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

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People Powered. Asset Strong.

March 29, 2018

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; Tonys Bridge Pad

Dear Mr. Martin:

In preparation of filing a permit application for the above referenced well, the Title Department of Arsenal Resources has conducted a thorough title examination in order to determine the ownership of the oil and gas underlying all roadways crossed by the proposed wells. The findings of the title examination show that some of the roadways crossed by the proposed wells are owned in fee by the West Virginia Department of Transportation, Division of Highways and that some are only right of ways. 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,

Hillary N. Priebel  
Senior Title Reviewer

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

06/15/2018



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

Date of Notice Certification: 3/28/18

API No. 47- 033 -  
Operator's Well No. Tony's Bridge 201  
Well Pad Name: Tony's Bridge

**Notice has been given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>555,528.009</u>
County:	<u>Harrison</u>		Northing:	<u>4,342,410.343</u>
District:	<u>Grant</u>	Public Road Access:	<u>County Route 25</u>	
Quadrangle:	<u>Mount Clare</u>	Generally used farm name:	<u>Lynch Farm LLC</u>	
Watershed:	<u>Brown's Creek of West Fork River</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 type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><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><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p style="text-align: right; font-size: small;">RECEIVED Office of Oil and Gas MAR 30 2018</p>
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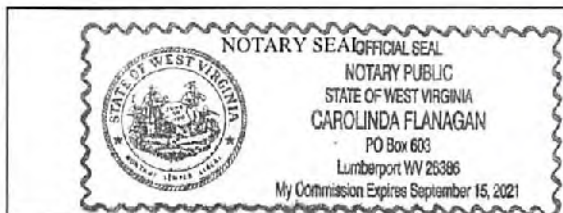
**Required Attachments:**

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 William Veigel, 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 Extension, Suite 300</u>
By:	<u>William Veigel</u> <i>WV</i>		<u>Wexford, PA 15090</u>
Its:	<u>Designated Agent</u>	Facsimile:	<u>304-848-9134</u>
Telephone:	<u>724-940-1224</u>	Email:	<u>cflanagan@arsenalresources.com</u>



Subscribed and sworn before me this 28<sup>th</sup> day of March 2018  
*Carolinda Flanagan* Notary Public  
 My Commission Expires 9/15/2021

**Oil and Gas Privacy Notice:**

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

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

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

**Date of Notice:** 3/29/18 **Date Permit Application Filed:** 3/29/18

Notice of:

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

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

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

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

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

SURFACE OWNER(s)  
Name: See Attached  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: See Attached  
Address: \_\_\_\_\_  
\_\_\_\_\_

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attached  
Address: \_\_\_\_\_  
\_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: Mary K. Mick  
Address: 132 Antler Drive  
Clarksburg, WV 26301

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

**This Notice Shall Include:**

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

**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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> 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.**

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**Time Limits and Methods for Filing Comments.**

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

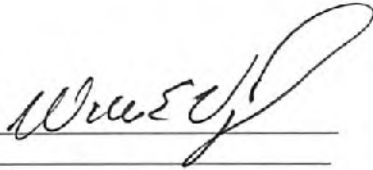
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WW-6A  
(8-13)

API NO. 47-033 - 05920  
OPERATOR WELL NO. Tony's Bridge 201  
Well Pad Name: Tony's Bridge

**Notice is hereby given by:**

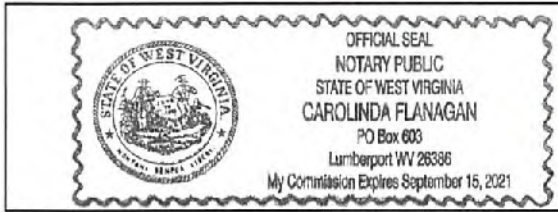
Well Operator: Arsenal Resources  
Telephone: 724-940-1224  
Email: cflanagan@arsenalresources.com



Address: 6031 Wallace Road Extension, Suite 300  
Wexford, PA 15090  
Facsimile: 304-848-9134

**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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 29th day of March 2018.

Carolinda Flanagan Notary Public

My Commission Expires 9/15/2021

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**Arsenal Resources  
Tony's Bridge  
WW-6A Notice of Application (Attachment)**

**Drill Site Surface Owner(s):**

Lynch Farm LLC  
51 Long Nook Road  
Truro, MA 02666

Lynch Farm LLC  
1202 Kanawha Boulevard East, Apt. 3G  
Charleston, WV 25301

Lynch Farm LLC  
355 Buckhannon Avenue  
Clarksburg, WV 26301

Charles G. & Mary K. Mick  
132 Antler Drive  
Clarksburg, WV 26301

**Surface Owner(s) (Road and/or Other Disturbance:**

William B. Maxwell, Jr. et al  
% Frank T. Maxwell et al  
P.O. Box 2424  
Clarksburg, WV 26302

Lynch Farm LLC  
51 Long Nook Road  
Truro, MA 02666

Lynch Farm LLC  
1202 Kanawha Boulevard East, Apt. 3G  
Charleston, WV 25301

Lynch Farm LLC  
355 Buckhannon Avenue  
Clarksburg, WV 26301

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Mary K. Mick  
132 Antler Drive  
Clarksburg, WV 26301

Charles G. & Mary K. Mick  
132 Antler Drive  
Clarksburg, WV 26301

**Coal Owner or Lessee:**

**Pittsburgh Vein of Coal:**

WBM Heirs Properties, LLC (98% Ownership)  
P.O. Box 2424  
Clarksburg, WV 26302

Unknown Heirs of Emily A. Newton, deceased (remaining ownership)  
Address Unknown

**All other Veins of Coal:**

Almeta Dawson  
641 Moorestown Mt. Laurel Road  
Mr. Laurel, NJ 08054-9555

Patricia Ann Vore Kohler  
% POA Jeff Kohler  
675 Willow Valley SQ Apt. 513  
Lancaster, PA 17602

**Surface Owner of Water Well and/or Water Purveyor(s):**

Stephanie K. Kennedy and Julie L. Rea  
3245 Mt. Clare Road  
Clarksburg, WV 26301

Michael Lee and Lori J. Jackson  
P.O. Box 8014  
Nutter Fort, WV 26301

Terrance Bassell  
3399 Mt. Clare Road  
Clarksburg, WV 26301

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Robert & Melissa D. Clutter ✓  
RR 7 Box 170  
Clarksburg, WV 26301

Frank Lynn Aldridge ✓  
PO Box 281  
Mount Clare, WV 26408

Paige F. Forrest ✓  
481 Notson Ter  
Port Charles, FL 33952

Douglas Denholm ✓  
PO Box 241  
Reynoldsville, WV 26422

Kelly D. Rittenhouse ✓  
3217 Mt. Clare Road  
Clarksburg, WV 26301

Howard Lee Sparks Jr. ✓  
67 Scenic View Drive  
Clarksburg, WV 26301

Ronald & Sharon Kendall ✓  
3374 Mt. Clare Road  
Clarksburg, WV 26301

Benjamin D. Bassell ✓  
3391 Mt. Clare Road  
Clarksburg, WV 26301

Peggy Jo Stutler ✓  
3404 Mount Clare Road  
Mount Clare, WV 26408

Eugene L. & Annabell Eakle ✓  
PO Box 41  
Mt Clare, WV 26408

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Shirley Ann Wright  
PO Box 152  
Mount Clare, WV 26408

Leon F Wilson Trust – Stealy Rentals  
151 Cameron Road  
Clarksburg, WV 26301

Herbert H. Bartlett  
3712 40Th Place  
Coltage City, MD 20722

James E. & Patricia L. Cottrill  
RR 7 Box 169  
Clarksburg, WV 26301

James A. Rhoden Estate  
C/O Denise Rhoden  
PO Box 112  
West Milford, WV 26451

Harold F. Husted; Charles Warner Etux  
Ralph Alkire Jr  
RR 4 Box 265 C  
Philippi, WV 26416

Diana D. Hall Evans  
PO Box 211  
Mt Clare, WV 26408

Mary K. Mick  
132 Antler Drive  
Clarksburg, WV 26301

David G. & Sharon L. Mick  
114 Antler Drive  
Clarksburg, WV 26301

Bud Cunningham Jr  
PO Box 138  
Mt Clare, WV 26408

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Mark Felix & Joe Michael Folio  
511 Timber Ridge Road  
Bridgeport, WV 26330

Mark Felix Folio  
2041 University Avenue  
Morgantown, WV 26505

Lynch Farm LLC  
1202 Kanawha Boulevard East, Apt. 3G  
Charleston, WV 25301

Lynch Farm LLC  
355 Buckhannon Avenue  
Clarksburg, WV 26301

Lynch Farm LLC  
51 Long Nook Road  
Truro, MA 02666

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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.  
Date of Notice: 3/29/18 Date Permit Application Filed: 3/29/18

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

- HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: See Attached  
Address: \_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>555,528.009</u>
County:	<u>Harrison</u>	Northing:	<u>4,342,410.343</u>
District:	<u>Grant</u>	Public Road Access:	<u>County Route 25</u>
Quadrangle:	<u>Mount Clare</u>	Generally used farm name:	<u>Lynch Farm LLC</u>
Watershed:	<u>Brown's Creek of West Fork River</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

Well Operator: Arsenal Resources  
Address: 6031 Wallace Road Extension, Suite 300  
Wexford, PA 15090  
Telephone: 724-940-1224  
Email: cflanagan@arsenalresources.com  
Facsimile: 304-848-9134

Authorized Representative: William Veigel  
Address: 65 Professional Place  
Bridgeport, WV 26330  
Telephone: 724-940-1224  
Email: cflanagan@arsenalresources.com  
Facsimile: 304-848-9134

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](mailto:depprivacyofficer@wv.gov).

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**Arsenal Resources**  
**Tony's Bridge**  
**WW-6A4 Notice of Intent to Drill (Attachment)**

**Drill Site Surface Owner(s):**

Lynch Farm LLC  
51 Long Nook Road  
Truro, MA 02666

Lynch Farm LLC  
1202 Kanawha Boulevard East, Apt. 3G  
Charleston, WV 25301

Lynch Farm LLC  
355 Buckhannon Avenue  
Clarksburg, WV 26301

Charles G. & Mary K. Mick  
132 Antler Drive  
Clarksburg, WV 26301

William B. Maxwell, Jr. et al  
% Frank T. Maxwell et al  
P.O. Box 2424  
Clarksburg, WV 26302

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

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

Date of Notice: 3/29/18 Date Permit Application Filed: 3/29/18

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

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

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

Name: See Attached Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Address: \_\_\_\_\_

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 555,528.009  
County: Harrison Northing: 4,342,410.343  
District: Grant Public Road Access: County Route 25  
Quadrangle: Mount Clare Generally used farm name: Lynch Farm LLC  
Watershed: Brown's Creek of West Fork River

This Notice Shall Include:

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

Well Operator: Arsenal Resources Address: 6031 Wallace Road Extension, Suite 300  
Telephone: 724-940-1224 Wexford, PA 15090  
Email: cflanagan@arsenalresources.com Facsimile: 304-848-9134

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 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](mailto:depprivacyofficer@wv.gov).

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**Arsenal Resources**  
**Tony's Bridge**  
**WW-6A5 Notice of Planned Operation (Attachment)**

**Surface Owner(s):**

Lynch Farm LLC  
51 Long Nook Road  
Truro, MA 02666

Lynch Farm LLC  
1202 Kanawha Boulevard East, Apt. 3G  
Charleston, WV 25301

Lynch Farm LLC  
355 Buckhannon Avenue  
Clarksburg, WV 26301

Charles G. & Mary K. Mick  
132 Antler Drive  
Clarksburg, WV 26301

William B. Maxwell, Jr. et al  
% Frank T. Maxwell et al  
P.O. Box 2424  
Clarksburg, WV 26302

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

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

Jim Justice  
Governor

Thomas J. Smith, P. E.  
Secretary of Transportation/  
Commissioner of Highways

January 26, 2018

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

Subject: DOH Permit for the Tony's Bridge Pad, Harrison County

Tony's Bridge 201 Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #04-2015-0416 for the subject site to ARSENAL Resources for access to the State Road for the well site located off of Harrison County 34 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT for DOH District 4 and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

A handwritten signature in blue ink that reads "Gary K. Clayton".

Gary K. Clayton  
Regional Maintenance Engineer  
Central Office Oil & Gas Coordinator

Cc: Kelly Davis  
ARSENAL Resources  
CH, OM, D-4  
File

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<b>Tony's Bridge #201</b>			
<b>FRACTURING ADDITIVES</b>			
	<b>PURPOSE</b>	<b>TRADE NAME</b>	<b>CAS #</b>
Additive #1:	Friction Reducer	WFRA-405	Proprietary
Additive #2:	Scale Inhibitor	SI-1000	7440-21-3
Additive #3:	Biocide	BIOCLEAR 2000	25314-61-8
Additive #4:	Gelling Agent	LGC-15	9000-30-0
Additive #5:	Corrosion Inhibitor	AI-300	111-76-2
Additive #6:	Gel Breaker	AP-One	7727-54-0
Additive #7:	Acid	HCl - 7.5%	7647-01-0

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Office of Oil and Gas  
MAR 30 2018  
WV Department of  
Environmental Protection

06/15/2018

02850 33 05920

# TONY'S BRIDGE AS BUILT PLANS ARSENAL RESOURCES

LAT./LONG: N 39° 13' 44.94" W 80° 21' 24.02"  
(APPROXIMATE CENTER OF PROJECT)

**WEST VIRGINIA 811 CALL BEFORE YOU DIG!**

WEST VIRGINIA 811 ONE CALL WAS PERFORMED BY APRIL, 2018.

THE FOLLOWING UTILITY COMPANIES MAY BE PRESENT IN THE PROJECT AREA:

- FRONTIER COMMUNICATIONS (FORMERLY VERIZON)
- BORNE INC.
- GREATER HARRISON COUNTY FPD
- DOMINION ENERGY
- WESTERN ENERGY CORP.
- POCO MOUNTAIN RES. LLC.

**PROJECT OWNER/CLIENT:**  
ARSENAL RESOURCES  
66 PROFESSIONAL PLACE, SUITE 200  
BROOKSPORT, WV 26039  
P.O. BOX 848-1284  
CONTACT: SCOTT CAMPBELL

**DESIGNER:**  
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
808 MARKETPLACE AVENUE, SUITE 200  
BROOKSPORT, WV 26039  
P.O. BOX 825-2118  
CONTACT: JOSEPH D. HORNBECK, P.E.

**INVOICED:**  
DISTRICT POLICE  
P.O. BOX 648-1388  
CONTACT: DISTRICT ENGINEER  
NAV LINDSAY

**STILL-TO-GO:**  
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP)  
P.O. BOX 648-0474

**NATIONAL RESPONSE CENTER:**  
P.O. BOX 654-8808

LOCAL EMERGENCY SERVICES		
NAME	ADDRESS	TELEPHONE NO.
AMBULANCE	911	911
HOSPITAL EMERGENCY ROOM	UNION HOSPITAL CENTER	336-548-6400
FIRE DEPARTMENT	911	911
POLICE DEPARTMENT	911	911
POLICE CONTROL CENTER	WEST VIRGINIA POLICE CENTER	336-587-8787



**AFFECTED TAX PARCELS:**  
GRANT-OUTSIDE DISTRICT - HARRISON COUNTY, WV

**CHARLES G. & MARY K. MCK**  
TAX MAP 367 PARCEL 1  
DEED BOOK 964 PAGE 713  
15.30 ACRES  
(AFFECTED AREA FROM MAIN ACCESS ROAD = 4.03 ACRES)  
(AFFECTED AREA FROM DRILL PAD = 1.52 ACRES)  
(AFFECTED AREA FROM TOPSOIL PILES = 0.20 ACRES)

**MARY K. MCK**  
TAX MAP 366 PARCEL 5  
DEED BOOK 964 PAGE 719  
34.00 ACRES  
(AFFECTED AREA FROM MAIN ACCESS ROAD = 2.08 ACRES)  
(AFFECTED AREA FROM WATER TRUCK TURNAROUND = 0.87 ACRES)  
(AFFECTED AREA FROM ASSOCIATED PIT ACCESS ROAD = 0.90 ACRES)  
(AFFECTED AREA FROM ASSOCIATED PIT = 3.28 ACRES)  
(AFFECTED AREA FROM TOPSOIL PILES = 0.73 ACRES)

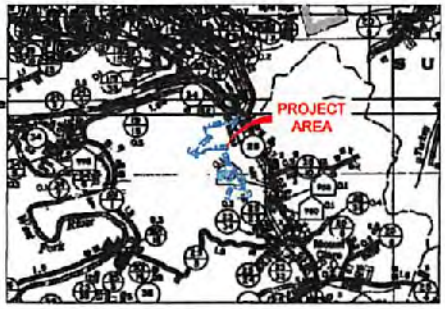
**LYNCH FARM, LLC**  
TAX MAP 348 PARCEL 92  
DEED BOOK 1473 PAGE 1003  
70.47 ACRES  
(AFFECTED AREA FROM MAIN ACCESS ROAD = 7.03 ACRES)  
(AFFECTED AREA FROM DRILL PAD = 3.28 ACRES)

**VOLUME OF TOPSOIL MOVED:**

DESCRIPTION	CUB (CY)	FILL (CY)	NET (CY)
BRIDGE ACCESS ROAD	34,964	10,830	24,134
DRILL PAD	11,791	6,170	5,621
BRIDGE PIT	13,121	11,800	1,321
WATER TRUCK TURNAROUND	148	3,800	-3,652
ASSOCIATED PIT ACCESS ROAD	1,837	1,801	36
ASSOCIATED PIT	37	11,200	-11,163
TOPSOIL PILES	6	4,300	-4,294
TOTAL	64,804	38,101	26,703

THESE VOLUMES ARE BASED ON AERIAL TOPOGRAPHY PREPARED BY SUE MOUNTAIN ARSENAL SURVEY AND THE FIELD COLLECTED 40-RALE BENCHMARK ON 1/14, 1/16, 1/27, 2/29 - 2/111 PROVIDED BY CHS AND ENVIRONMENTAL CONSULTANTS.

**LOCATION MAP**  
MOUNT CLARE USGS 7.5' QUAD  
SCALE IN FEET  
1 INCH = 1,000 FEET



**VICINITY MAP**  
HARRISON COUNTY ROAD MAP  
SCALE IN FEET  
1/2" = 1 MILE  
1 INCH = 10 MILES



**PLAN REPRODUCTION WARNING**

THE PLANS HAVE BEEN CREATED ON A8R D (24" X 36") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTERS. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ACCURATE FOR CONSTRUCTION PURPOSES.

\*\*\*WARNING\*\*\* INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

**SITE DISTURBANCE**

MAIN ACCESS ROAD	= 1015 AC
DRILL PAD	= 0.96 AC
PIT ACCESS ROAD	= 0.90 AC
WATER TRUCK TURNAROUND	= 0.87 AC
ASSOCIATED PIT	= 4.94 AC
TOPSOIL PILES	= 0.98 AC
TOTAL	= 18.60 AC

**FLOOD PLAN CONDITIONS**

DO SITE CONSTRUCTION ACTIVITIES THIS PLACE IN FLOODPLAIN?	YES
PERMIT REQUIRED FROM COUNTY FLOODPLAIN COORDINATOR?	NO
IS FEMA STUDY BOARD FILED?	NO
FLOODPLAIN SHOWS ON DRAWING?	YES
PERMITS REQUIRED FOR SITE?	UNDETERMINED
ADVANCE OF CONSTRUCTION IN FLOODPLAIN (ft.)	0

**SHEET INDEX**

SHEET 2 OF 17	CORNER SHEET
SHEET 3 OF 17	OVERLAY AS BUILT PLAN
SHEET 6-7 OF 17	AS-BUILT SITE PLANS
SHEET 8-17 OF 17	ROAD PROFILE

**SITE LOCATIONS**

WV82 (WEST VIRGINIA NORTH ZONE)	LATITUDE	LONGITUDE
CENTRELINE OF PAD	38.22077	-80.35888
CENTRELINE OF ASSOCIATED PIT	38.23176	-80.35888



ARSENAL RESOURCES  
TONY'S BRIDGE WELL PAD  
GRANT-OUTSIDE DISTRICT  
HARRISON CO., WEST VIRGINIA

COVER SHEET

DATE: 03/30/2018  
DRAWN BY: J. HORNBECK  
CHECKED BY: J. HORNBECK  
SCALE: AS SHOWN  
PROJECT NO.: 18-00000000  
SHEET NO.: 1 OF 17

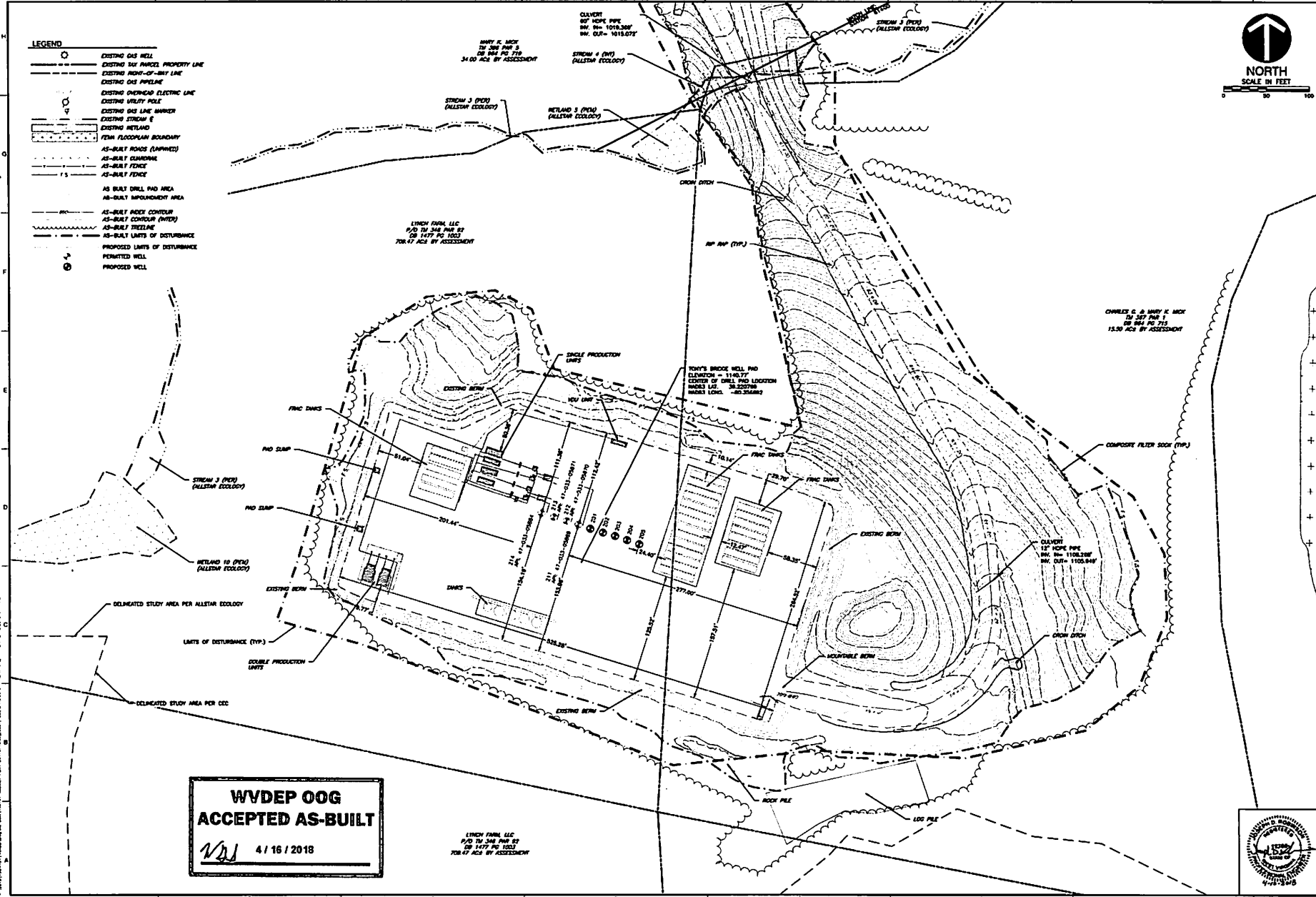
ENVIRONMENTAL CONSULTANTS, INC.  
an Engineering Firm - Morgantown, WV 26505  
P.O. BOX 825-2118 - MORGANTOWN, WV 26505  
WWW.ENVCONSULTANTS.COM

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- LEGEND**
- EXISTING GAS WELL
  - EXISTING TAX PARCEL PROPERTY LINE
  - EXISTING HIGH-OF-BUILT LINE
  - EXISTING GAS PIPELINE
  - EXISTING OVERHEAD ELECTRIC LINE
  - EXISTING UTILITY POLE
  - EXISTING GAS LINE MARKER
  - EXISTING STREAM #
  - EXISTING WETLAND
  - FIRM FLOODPLAIN BOUNDARY
  - - - AS-BUILT ROADS (IMPROVED)
  - - - AS-BUILT CEMETERY
  - - - AS-BUILT FENCE
  - - - AS-BUILT FENCE
  - AS-BUILT DRILL PAD AREA
  - AS-BUILT IMPOUNDMENT AREA
  - AS-BUILT POND CONTOUR
  - AS-BUILT CONTOUR (PAVED)
  - AS-BUILT TREELINE
  - AS-BUILT LIMITS OF DISTURBANCE
  - PROPOSED LIMITS OF DISTURBANCE
  - PROTECTED WELL
  - PROPOSED WELL



**WVDEP OOG  
ACCEPTED AS-BUILT**

*WJ* 4 / 16 / 2018

LYNNH PARK LLC  
P.O. BOX 3448 PARK ST  
OR 1477 PG 1003  
708.67 ACB BY ASSESSMENT

CHARLES G. & MARY K. MCK  
211 227 PAF 1  
OR 844 PG 2713  
15.30 ACB BY ASSESSMENT

**SUBMITTAL & REVISION RECORD**

NO.	DATE	DESCRIPTION
1	07/11/17	ISSUED FOR PERMITS
2	07/11/17	ISSUED FOR PERMITS
3	07/11/17	ISSUED FOR PERMITS
4	07/11/17	ISSUED FOR PERMITS
5	07/11/17	ISSUED FOR PERMITS
6	07/11/17	ISSUED FOR PERMITS
7	07/11/17	ISSUED FOR PERMITS
8	07/11/17	ISSUED FOR PERMITS
9	07/11/17	ISSUED FOR PERMITS
10	07/11/17	ISSUED FOR PERMITS

**CEE**  
Civil & Environmental Consultants, Inc.  
400 Marketplace Ave - Suite 200 - Bridgeport, WY 83300  
PH: 304.633.3118 - 888.688.8839 - FAX: 304.633.3237  
www.cec.com

**ARSENAL RESOURCES  
TONY'S BRIDGE WELL PAD  
GRANT-OUTSIDE DISTRICT  
HARRISON CO., WEST VIRGINIA**

**AS-BUILT SITE PLAN**

DATE: JULY 2017  
SCALE: 1"=50'  
PROJECT NO: 15A-151  
APPROVED BY: [Signature]

