

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary 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

Permit approval for TONY'S BRIDGE 201 Re:

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

API Number: <u>47 033 0591</u>0

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

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 47 033 05 920

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, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47-033						
OPERATOR WELL	NO		Tony	's Bri	dge 2	01
Well Pad Name:						
4703	3 1	0	5	9	2	^

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

1) Well Operat	or: Arsenal Re	esources	494519412	Harrison	Grant	Mount Clare
	* -		Operator ID	County	District	Quadrangle
2) Operator's V	Well Number: To	ony's Bridge 201	Well Pa	ad Name: Tony	y's Bridge	
3) Farm Name/	Surface Owner:	Lynch Farm LLC	Public Ro	oad Access: Co	ounty Route	25
4) Elevation, co	urrent ground:	1141.1' El	evation, proposed	l post-construct	tion: 1140).8'
5) Well Type	(a) Gas X Other	Oil	Uno	derground Stora	age	
	. ,	allow X rizontal X	Deep			< Dun
6) Existing Pad	: Yes or No Ye	8				3/20/2018
A STATE OF THE PERSON NAMED IN THE PERSON NAME), Depth(s), Antic Top) - 7248 ft. (T			Pressure(s):	3/20/2018
8) Proposed To	tal Vertical Dept	h: 7223'				
9) Formation at	Total Vertical D	Depth: Marcellus	Shale			
10) Proposed T	otal Measured D	epth: 11,937.7'				
11) Proposed H	Iorizontal Leg Le	ength: 3,955.7'				
12) Approxima	te Fresh Water S	trata Depths:	25, 200, 215, 2	50'		
13) Method to	Determine Fresh	Water Depths:	offsetting wells reported wa	ater depths (033-04454	, 033-04455, 033	-04558, 033-04692, 033-04775)
14) Approxima	te Saltwater Dep	ths: 2300'				
15) Approxima	te Coal Seam De	pths: Pittsburgh	- 37.5'		Offic	RECEIVED Se of Oil and Gas
16) Approxima	te Depth to Possi	ible Void (coal mi	ne, karst, other):	None known		AR 3 0 2018
	osed well location ng or adjacent to	n contain coal sear an active mine?	ns Yes	No	none kno	Department of Importal Protection
(a) If Yes, pro	vide Mine Info:	Name:				
		Depth:				
		Seam:				
		Owner:				

WW-6B (04/15) API NO. 47- 033

OPERATOR WELL NO. Tony's Bridge 201

Well Pad Name: Tony's Bridge

4703305920

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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							

SDEW 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

	TACKERS	MAR 3.0 20
Kind:		2018
Sizes:		Environmental Protection
Depths Set:		

Office of Oil and Gas

WW-6B
(10/14)

API NO. 47- 033

OPERATOR WELL NO. Tony's Bridge 201 Well Pad Name: Tony's Bridge

4703 05920

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 with 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 ½" - 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:

Office of Oil and Gas 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 play it lubricity as well as stabilizing the well bore. We will begin rotating the drill string and mud will be circulated upon reaching 100 to 100 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 right ment of pipe pulled across and 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.

47 033 05920 County: State: AFE #: RKB: Harrison West Virginia
XX API #: ound Level Casing and Mud Directional & Surveys Size Drig /Csg Point Cement: Class A 489 Sack TOC: Surface (top off if needed) 489 Sacks w/ 30% Excess Vertical Floc Water Cement: Class A 678 Sacks w/ 50% Excess TOC: Surface (top off if needed) Vertical Mud Data Floc Water Floc Water From 80 6,982 11,938 2400 Bit Data Te 2,400 7,982 11,938 See Directional Plan

ARSENAL Tony's Bridge 201 Casing Design Directional Plan # 1 QES N/A TBD Other Names: Surface Location: Bottom Hole Location: Total Depth: TBD 11,938 MD (ft)
7,223 TVD (ft)
Significant Logs Depth (ft) Depth (ft) Formations (TVD) Section 1 80 24" 94# H-40 STC 17 1/2" (PDC) None Section 2 350 13 3/8" 54.5# J-55 STC CBL after cer Section 3 12 1/4" (PDC) Possible CBL after cement job 9 5/8" 40# J-55 LTC 2.400 2,400 Section 4 Floc 11.5- 12.0 ppg SOBM 17-1/2" & 12 1/4" PDC 8- 3/4" (PDC) 8- 1/2" (PDC) Directional Data ОВМ Big Lime 1.529 1st Elk Siltstone 4,868 **Tully Lime** 6,957 Purcell (Limestone) 7,209 Cement: Class A: 50/50 POZ 1.2 ft3/sack +10% Exs in OH = 1859 sacks Lower Marcellus 7,212 TOC: 2,250 ft 11,938 MD 7223 TVD 5 1/2" 20# P-110 VAR Cement Outside Casteg RECEIVED
Seal Assembly in Ameliae of Oil and Gas Revision Note: Not drawn to scale Date Last Revised: 13-Mar-18 MAR 3 0 2018 Jarrett Toms

Arsenal Resources

WV Department of Environmental Protection

	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	Used to improve rheological properties of cement						
	Dispersant							
Additive #7:	Cellulose	Help with fluid loss						

Office of Oil and Gas

MAR 3 0 2018

WV Department of Environmental Protection

4703 05920

My Commission Expires September 15, 2021

API Number 47 - 033

Operator's Well No. Tony's Bridge 201

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

TEOIDS/ CUTTINGS DISPOSA	AL & RECLAMATION FLAN
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 Will a pit be used? Yes No	the proposed well work? Yes V No
If so, please describe anticipated pit waste: Produced wa	ater
Will a synthetic liner be used in the pit? Yes No	If so, what ml.? 60
Proposed Disposal Method For Treated Pit Wastes:	-1001
Land Application	SDev 3/20/2018
Underground Injection (UIC Permit Nu	mber
Reuse (at API Number Various	
Off Site Disposal (Supply form WW-9 f Other (Explain	or disposal location)
Will closed loop system be used? If so, describe: Yes, the blosed loop system	n 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)?	
-If oil based, what type? Synthetic, petroleum, etc. Synthe	
Additives to be used in drilling medium?Bentonite, Soap & Polymer Stick	s, Soda Ash, Sodium Bicarbonate, Defoamer, Base Oil, Emulsifiers, Lime Barite
Drill cuttings disposal method? Leave in pit, landfill, removed offs	
-If left in pit and plan to solidify what medium will be used	
	ii/Waste Management, Westmoreland Sanitary Landfill, Apex Landfill
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	of any load of drill cuttings or associated waste rejected at any hin 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virgin provisions of the permit are enforceable by law. Violations of any law or regulation can lead to enforcement action.	amined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for eacegrate, and complete. I am aware that there are significant
Subscribed and sworn before me this 28th day of M	arch, 20_18
My commission expires 9/15/2021	Not are Pulative ST NOTARY PUBLIC STATE OF WEST VIRGINIA CAROLINDA FLANAGAN PO Box 603 Lumberport WY 28386

Arsenal	Resources
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Cover 24 Clover 24 Clover 24 Clover 24 Clover Comments Control Field Manual. CPad Built)	Proposed Revegetation Treatm			H 6.8 Average
Fertilizer amount 1000 lbs/acre	Lime 2.67	Tons/acre or to correct	to pH 6.4	
Seed Mixtures Temporary Seed Type Orchard Grass 129 Rye 93 Clover 24 Clover Timothy Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Re-seed and mulch all disturbed areas as soon as reasonably per regulation. Upgrade erosion and sediment control measures where per the West Virginia Erosion and Sediment Control Field Manual.	Fertilizer type 10-20	0-20	_	
Temporary Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Ics/acre Ics/a	Fertilizer amount 10	00	lbs/acre	
Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Orchard Grass 129 Orchard Grass 129 Rye 93 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 provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions careage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Re-seed and mulch all disturbed areas as soon as reasonably per regulation. Upgrade erosion and sediment control measures where per the West Virginia Erosion and Sediment Control Field Manual.	Mulch 3-4		Tons/acre	
Orchard Grass 129 Rye 93 Rye 93 Clover 24 Clover 24 Timothy 45 Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Re-seed and mulch all disturbed areas as soon as reasonably per regulation. Upgrade erosion and sediment control measures where per the West Virginia Erosion and Sediment Control Field Manual.			Seed Mixtures	
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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 provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Re-seed and mulch all disturbed areas as soon as reasonably per regulation. Upgrade erosion and sediment control measures where per the West Virginia Erosion and Sediment Control Field Manual.	Orchard Grass	129	Orchard Grass	129
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Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Plan Approved by: Re-seed and mulch all disturbed areas as soon as reasonably per regulation. Upgrade erosion and sediment control measures where per the West Virginia Erosion and Sediment Control Field Manual.	Clover	24	Clover	24
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Title: OGG Inspector Date: 3/20/2018	Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by: Comments Re-seed ar per regulation. Upg	t will be land applied, included area. ed 7.5' topographic sheet. A Dudous and mulch all disturbrade erosion and	rbed areas as soon as read sediment control measur	asonably possib



SITE SAFETY PLAN

TONY'S BRIDGE #201 WELL PAD

911 Address:

2598 Country Club Road

Mount Clare, WV 26408

5Dev 3/20/2018

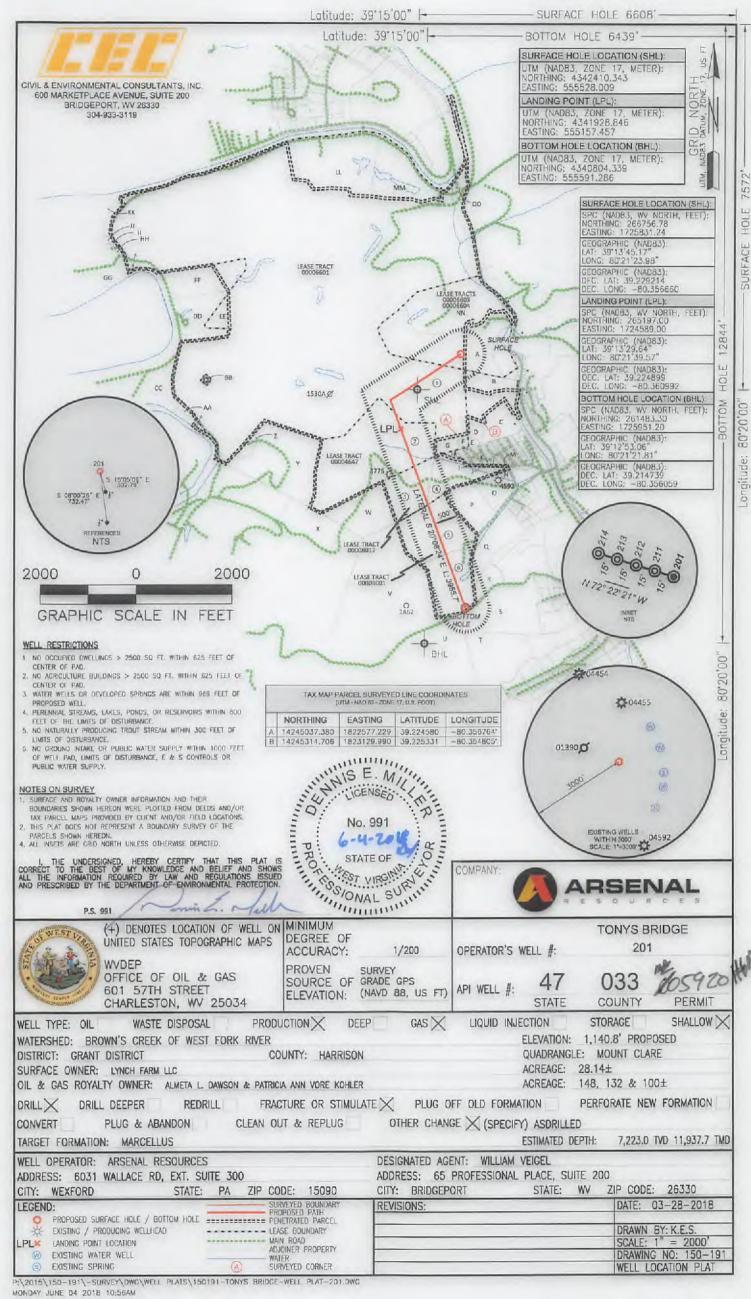
Office of Oil and Gas

MAR 3 0 2018

WV Department of Environmental Protection

4703305920

IC TACILITY ID	COUNTY NAME	COUNTY 17	DISTRICT	MAP	PtD:	PUBLIC FACILITIES LIST	THISTIFF AND SET CLARE THE SETT OF THE SET	ADDRESS
	HALLES	11	17	10.7	16-	12 0 14 7 OF 14 OND 10000 11 1000 OU/S - 100 OU00	DHERE HAVE MEDICAL SPECIES (MAKE AND BO)	DESCRIPTION OF THE PROPERTY OF
WILLING ID	COUNTY NAME	COUNTY	DISTRICT	MAP	PID	DWELLING LIST	OWNER	ADDRESS
1	HARRISON HARRISON	17	1	184 184	10	01-0114-0006-0000-0000 01-0114-0010-0000-0000	KEHRER ALBERT F & DOROTHY I	1500 WHITE DAK RD PULLMAN WY 25421 BOST 1500 WHITE DAK RD PULLMAN WY 25421 BOST
1	HARDSON	17	-	114 114	12	01-0114-0012-0000-0000 01-0114-0014-0000-0000	HILDRETH CHRISS LUMANN MART ANN	8177 CYPRESS DR 5, PORT MYERS #1 33967 3111 RR 7 BOX 153, CLANSBURS WV 26301 5/14
ă.	HARMSON	17	1	114	24 28	01-0114-0024-0000-0000 01-0114-0028-0000-0000	TI ANIGAN CHARLES W POWELL TERRY A	PO BOX 2926, CLARKSBURG WV 26302 2926 115 TROLLEY CARLIN, CLARKSBURG WV 26301 745
7 0	HARRISON	17	1	114	26.2	01-0114-0028-0002-0000 01-0114-0029-0000-0000	MCNEMAX DANIEL & & SHERRY LYNN HMER PAUL O' II & RETHILLE) (MICHAEL D' LIMER)	PA F BOX 158, CLARKSBURG WV 16801 9714 3211 WILLIAMS AVE, CLARKSBURG WV 36801 185
9.	HARRISON	17	1	347	37	01-0114-0091-0000-0000 01-0347-0030-0000-0000	MOGREJOYCE C SKASIK KURT	AN 7 BOX 151, CLARKSBURG WV 20301 9714 416 BLYCK-HANNON PIKE CLARKSBURG WV 26301
11	HARRISON	17	12	347	41.2	12-0347-0041-0000-0000 12-0347-0041-0003-0000	CLUTTER ROBERT & MEUSSA D CLUTTER ROBERT & MEUSSA D	RR 7 BOX 170, CLARKSBURG WV 26301 5716 PR 7 BOX 170, CLARKSBURG WV 26301 9716
11	HARRISON HARRISON	17	12	947 047	41.9	12-0347-0041-0003-0000 12-0347-0051-0000-0000	HALL CAROL CLUTTIA FORRAT & MALISSA D	PO ROK 245, MOUNT DURKE, WV 25408 0243
15	HARRISON	17	12	347	63 64	12-0347-0003-0000-0000	UATEMHORISE METAL	ER 7 BOX 169, CLASKSSL RG WV 35301 5716
17	HARRISON	17	12	547 547	65	12-0347-0063-0000-0000 12-0347-0063-0000-0000	COTTRILLIAMES E & PATRICIA I	BAS MOUNT CLARE RD, CLARKSDURG WV 163019718 RR 7 BOX 161, CLARKSDURG WV 163019718
10	HARRISON	17	17	347	65 S	12-0347-0065-0002-0000 12-0347-0065-0005-0000	MAYLE IDAN & GELTA	AR 7 BOX 162, CLARKSBURG WV 26801 9716 AR 7 BOX 161, CLARKSBURG WV 26801 9718
20	HARRISON	17	12	547 342	90	12-0347-0067-0000-0000	VANHOUN HAROLD W & TINA M DAYS ANN E	9R 7 BOX 154, CLARKSBURG WV 36301 9716 471 STARE HOLLOW RD, DLARKSBURG WV 36301 BS
22	HARRISON	17	12	347 347	75	12-0347-0075-0000-0000 12-0347-0079-0000-0000	ANCEL WILLIAM TACKSON	PO BOX 101, MOUNT CLARE WV 26408 0101 109 POWERST, LA GRANGE DA 30340 8381
24 25	HARRISON HARRISON	17	12	367	1.	12-0366-0041-0000-0000 12-0367-0001-0000-0000	MICK CHARLES G& MATY K	PO RON 25E, MOUNT CLARE WV 76408 0258 0251 132 ANTLEN DE, CLARESBURG WV 26301 7457
27	HARRISON	17	12	167	1.7	12-0367-0003-0002-0000	MILT DAVIG G & SHAHUN : PAJES FÖRFIST F (CONNIE L DRAIN(F)	114 ANTLER DR, CLARKSBURG WV 76301 7457 RR 7 BOX, CLARKSBURG WV 9716 9716
29	HARRISON	17	12	367 867	1	12-0307-0003-00005-0000	SPARKS HOWARD LEE IN	67 SCENIC VIEW OR, CLARKIE, AG WY 76301 753 67 SCENIC VIEW OR, CLARKIEURG WY 26301 753
50 31	HARRISON HARRISON	17	12	167	x Y	12-0367-0002-0000-0000	MARKS HOWARD LET, /R LEARY ID-NNY GENE JR	67 SCEWIC VIEW UR, CLARKSBURG WV 26301 755 PO BOX 273, MOUNT CLARE WV 36408 0279
12 15	HARRISON HARRISON	17	12	767 367	341	17-0367-0008-0003-0000 13-0367-0034-0001-0000	MURPHY THOMAS EDWARD & ROBIN LEE CARLSON STUTLER DONN'S DIE & BARBARA	506 STARK HOLLOW RC, CLARKSRUNG WV 26301 74 PO BOX 45, MOUNT O ASE WV 26409 DO45
34	HARRISON HARRISON	17	12	407	15	12/0357-0035-0000-0000	TONW HOOM	PO BOX 218, MOUNT CLARE WV 26408 G218
35 Xo.	HARRISON.	17	12	367 367	36.1	12-0367-0036-0000-0000	ALIEN PEARY HETAL **** EXTRA DAWN ERS****	THE END SEE C. MOUNT CLOSE WY SERVE 9/51 111 GREENBRICH DR. LOST CREEK WY 36885 708
117 3e	HARRISON HARRISON	17	17	362	38 42.7	12-0367-0038-0000-0000 12-0367-0039-0000-0000	JEFFRIES LEONARD & LAURA, BARKFR DEWLY F & DEBORAN I	PO BOX 95, MOUNT CLAYE WV 26408 0095 574 KUHLAVE CLARKSBURG WV 26301 3575
40	HARRISON HARRISON	17	12	367	90	12-0367-0039-0000-0000 12-0367-0040-0000-0000	SALLIMAY BILAY O & MILLISSA D	45 CHOB RUNIND, MOUNT CLARE WV 26408 950
41	HARRISON	1.7 1.7	12	167 2006	49.	12-0367-0049-0000-0000 17-2006-0001-0000-0000	KENDAL RONALD & SHARON	PO BOX 37, MOUNT DUARE WV 26406 0032 PO BOX 27, MOUNT DUARE WV 26406 0027
44	HARRISON	17	12	7006 2006	4.	12-2006-0004-0000-0000 12-2006-0005-0000-0000	BASSELL TERRANCE	FB 7 BOX 180A, CLATKSBURG WY 263D1 971E 3395 MOUNT CLARE RD, CLAR STRING WY 263D1 7
46	HARRISON	17	12	2006 7006	2	12-2006-0006-0000-0000	STUTLER PEGGY /O EAKLE EUGENE L'ÉL ANNABELL	3/O1 MOUNT CLARE RD, MOUNT CLARE WV 26408 1 PO BDX 41, MOUNT CLARE WV 26408 1041
A7 48	HARRISON HARRISON	17	12	2006 7006	25. 41	12-2006-0025-0000-0000	PHARES FLANCES DIET AL FRADERICK MARY JACKSTHA	235 F MAIN ST, CLARESTUNG WY 26301 2125 52 AMERICAN DR, CLARESSUNG WY 26301 2535
49 50	HARRISON HARRISON	£7 17	12 12	2006	51 53	12-2006-0053-0000-0000 12-2006-0053-0000-0000	FREDERICK MARY JACINTHA ALDRIDGE FRANKLYNN	52 AMERICAN DR. CLARKSBURG WV 26301 7531 PO BOX 283, MCUNT CLARE WV 26408 0281
59 52	HARRISON HARRISON	17	12	2006	96 57	17-2006-0056-0000-0000	CONNINGHAM BUD JUNIOR	PO BOX 136, MOUNT CLARE WV 26408 0138 PO BOX 138, MOUNT CLARE WV 76408 0138
63	HARROOM	47	12	2006	93	12-2006-0051-0000-0000 12-2008-0058-0000-0000	MONTGOMINY CHRISTOPHER MADE	742 REDIERN RO, LOST CHEEK WY 26385 9002
55	HARRISON	17	12	2006 2006	73	13-2006-0074-0000-0008 13-2006-0074-0000-0008	MAX BRIANT	901 W MAIN ST CLARKSBURG WV 26301 PO BOX 307, WEST MILEORD WV 26451 0306
56 57	HARRISON	17	12	2006	77	17-7005-0077-0000-0000 12-7005-0005-0000-0000	MERRILL PAMELA SUE & ROBERT-LET	PO BOX 1027, AVON PARK FL 33826 PO BOX 184, MOUNT DLARE WY 26408 0185
56	HARRISON	17	12	2006 2006	82-	12-2006-0082-0000-0000 12-2006-0083-0000-0000	LOTTERL	PO BOX 107, MOUNT CLARE WY 26408 0107 PO BOX 107, MOUNT CLARE WY 76408 0107
60 61	HARRISON	17	12	7007	17	13-2007-0003-0000-0000 11-2007-0012-0000-0000	LEWIN FREDRIC O	PO BOX 23, MOUNT CLARE WV 26408 0053 PO BOX 21, MT CLARE WV 26408 0021
63	HARRISON	17	12	2007	14	12-2007-0014-0003-0009 12-2007-0012-0000-0009	ELAND ANNA L (IT! (GEORGE DENVER ELAND) MCCORMICK ROBERT LEROY	PO BOX 251, MOUNT CLARE WV 26408 0253 PO BOX 17, MOUNT CLARE WV 26408 0047
65	HARRSON HARRSON	17 17	12	2007	23	12-2007-0022-0000-0000 17-2007-0023-0000-0000	BLAND ANNA L (LL) (GEORGE DENV(A (LAND)	PO BOX 251, MT C. ARE WV 26408 0251 PO BOX 137, MT CLARE WV 26408 0137
ish ist	HARRISON HARRISON	17	12	2007	56 70	12-2007-2006-0000-0000 12-2007-20170-0000-0000	CORDON DONALD C & MISSTY DELANSY HILLMANN WILLIE DAWN ESTATE	PO BOX 215, MOUNT CLARE WV 2640B 0158 PO BOX 215, MOUNT CLARE WV 2640B 0215
.68	HARRSON	17	15	2007	73 77	12-2007-0073-0000-0000	ROGERS CHARLES LEE & DORENA JAN SOHELARONT GARY P	PO BOX 64, MOUNT CLARE WV 26408 D044 PO BOX 186, MOUNT CLARE WV 26408 0186
66 70	HARRISON MOC SHAM	17	12	2007	89.1	12-2007-0083-0001-0000	WORKMAN MICHELLE	PO BOX 281, GYPSY WV 26% L 0281 PO BOX 54, MOUNT CLARE WV 16408 0054
72	HARRISON	17	12	2007	94	12-2007-0068-0000-0000 12-2007-0094-0000-0000	WAGNER FAYMOND WIF & COMOTHY I	PO BOX 224, MOUNT CLARE WY 7640B 0274
73 76	HARRISON HARRISON	17 17	12	2007	96	12-2007-0095-0000-00000 12-2007-0099-0000-00000	RICHARDS LUI A ROSALEE	PO BOX 38, MOUNT CLARE WV 26408 0038 PO BOX 38, MOUNT CLARE WV 26408 0038
75 76	HARR SON	17	12	2007 2007	310 312	12-2007-0110-0000-0000 12-2007-0113-0000-0000	RICHARDS LULA ROSALLE & DONALD L RICHARDS LULA ROSALLE & DONALD L	PO BOX 38, MOUNT CLARE WV 36408 D038 PO BOX 38, MOUNT CLARE WV 36408 D038
77 78	HARRISON	17 17	12	2007	110	12-2007-0116-0000-0000	WILLIAMS JOSEPH & GLORIA T (HAROLD W WILLIAMS)	PO BOX 73, MOUNT CLARE WY 16408 0073 1302 GEORGE AVE, CLARKSBURG WY JASUL 178
79 AD	MARRISON HARRISON	17	12	2007	132	12-2007-0158-0000-0000	JACKSON MESIACEA III. JACKSON MICHAEL LLE B LOIU L	374 S ZZND ST, CLARKSBURG WV 363G1 3467 PO BOX 3, MOUNT CLARE WV 364G8 X014
#1 32	MARISON	17 17	12	2007 2007	138	12-2007-0138-0000-0000	TACKSON MICHAEL LEE B LONG L HILEMAN LARBY I & DEBORAN II	PO BOX 8014, NUTTER FORT WV 26301 F014 PO BOX 123, MOUNT CLARE WV 26408 0123
83 84	HARRISON HARRISON	17 17	12	2007	144	12-2007-0144-0000-0000	FF HOLDINGS ILC	PO BOX 1027, AVON PARK FL 34836 PO BOX 1027, AVON PARK FL 33826
85	HARRISTAN	17	123	1007	146	12-2007-0146-0000-0000 12-2007-0148-0000-0000	EPHOLDINGS (I.C. DODD C: VDE M ESTATE	PO BOX 1027, AVON PARK FL 18826 PO 90X 516, LOST CREEK WV 26165 0516
87	HARRISON	37	12	7007	149	12-2007-0149-0000-0000	LANHAM CALVIN C & DAMENE	PO BOX 206 MOUNT CLAIR WV J6408 0206 PO BOX 145 MOUNT CLARE WV 26408 0111
19	HARRISON	17	17 12	2007	150	12-2007-0150-0000-0000 12-2007-0152-0000-0000	MARKLEY HAZEL M STUTLER MASLE V	PO BOX 93, MOUNT CLATE WV 25406 0093
93	HARRISON	17	11	1007	155	12-2007-0155-0000-0000	POWERS DEBONAN / & RESECO! M DODO MILLS HONALD CIB LOBETTA M	PO BOX 202, MOUNT CLARE WV 26408 0233 PO BOX 231, MOUNT CLARE WV 26408 0233
52 53	MARKISON	17	13 17	2007	157.1	12-2007-0157-0001-0000 12-2007-0158-0000-0000	STUTLER CRIE C.B. LACCUITUR K JACKSON WILLARD IR & MARIDANI	PO DOX 126, MOUNT CLARE WV 26408 0126 PO BOX 207, MOUNT CLARE WV 26408 0107
34	HARRISON	17	12	2007	159	13-2007-0005-0000-0000	WHIGHT DAVID L & CHRISTING L EARHAM CALVEL /R & EAURA	PO BOX 45, MOUNT CLARE WV 26409 0291 PO BOX 45, MOUNT CLARE WV 25408 0046
36	HARRISON	17	12	250H 200H	10	17-7008-0010-0000-0000 12-7008-0010-0001-0000	CRITICHFIELD RIMINERLY D & JAMES K MICVICKER	PO BOX 61, MOUNT CLARE WV 25408 0068 RR 1 BOX 683, MOUNT CLARE WV 26408 9757
31	HARRISON	17	12	2008	30.3 12	12-2008-2019-0002-0000 12-2008-2012-0000-0000	RINGHART WILLIAM MARVIN	PO BOX 63, MOUNT CLARE WV 25408 0063 PO BOX 65, MOUNT CLARE WV 25408 0045
1//0	HARRISON	17	12	7006 2008	18	12-2008-0018-0000-0500 12-2008-0021-0000-0000	MCCLUTEHEON ROBERT AND A DEBRA ANN	736 MULDERRY AVE, CLARKSBUFF, WV 26501 26 PO BOX 25, MOUNT CLARE WV 26408 0023
102	HARRISON	17	12	2008	28	12-2008-2028-0000-0000 12-2008-2029-0000-0000	SURCEX EN C & TERESA MUNKAY JAMES INVIN & BARBARA I FANCHINE	PO BOX 42, MOUNT CLARE WV 25408 COX2 PO BOX 1, MOUNT CLARE WV 25408 COX1
104	HARRISCH	2.7	-12	2008	90	12,7008-0030-0000-0000	MCEUTCHEDN ROGERT ANDY & DEBNA ANN	70 90X 25, MOUNT CLAKE WV 26408 0025 20 80X 45, MOUNT CLAKE WV 26408 0045
105	HARIUSON	17	12	2009	1	12-2008-0031-0000-0000 12-2009-0003-0000-0000	ROGERS PUSSEL & MEUSSA	PO BOX 328, MOUNT CLARE WY 25408 0039 PO BOX 328, MOUNT CLARE WY 25408 0228
105	HARRISON	17	17	2006 2006	4	12-2009-0002-0000-0000 12-2009-0004-0000-0000	MCCALLONGO ALONZO FIRETAL	PO BOX 64, MOUNT CLAPE WV 21408 0228
109	HARRISON	17	12	2005	5	12-2009-0005-0000-0000 12-2009-0008-0000-0000	CORD ON DONALD I- & DEBBIE WORKMAN MACHELLE DAWN	PO BOX 191, MOUNT CLARE WV 26408 0191 PO BOX 191, MOUNT CLARE WV 26408 0191
142	HARRISON	17	12	2009 2000	10		PRINCE WILLIAM D. & CHERVE I UIR MILL E GAY & RALPH E 3/4 OCLEWDYTH SHAW EST 1/4 INT	PO BOX 146, MOUNT CLARE WV 26408 0169 PO BOX 68, MOUNT CLARE WV 26408 0069
113 114	HARRISON	17	12	2009 7009	14	12-2009-0011-0000-0000 12-2009-0014-0000-0000	ROGERS WILLIAM C. GONSORON WILLIAM PAUL	PO BOX 2, MOUNT CLARE WY 26408 0002 PO BOX 61, MOUNT CLARE WY 26408 0061
115	HARRISON	17	12	2009	18	12-2009-0018-0000-0000 12-2009-0019-0000-0000	BOWEN MARTA K & NORMAN CORN ROBERT II	PO BOX 4, CLARKSBURG WV 26303 0004 FD BOX 66, MIGUNT CLARE WV 26408 0066
117	HARRISON HARRISON	17	12 12	2009	20	12 2009-0020-0000-0000 17 2009-0025-0000-0000	ROMANO CALMINE HILLAS CORN ROBERT H	PO BOX 365, MOUNT CLARE WV 26408 0245 PO BOX 66, MOUNT CLARE WV 26408 0065
119	HARRISON	17	12	2009	25	12-7009-0095-0000-0000 12-7002-0025-0000-0000	CORN ROBERT H	PO BOX 66, MOUNT CLARE WY 26408 0066 PO BOX 66, MOUNT CLARE WY 26408 0066
331	HARRISON	37	32	2009	34	12 2009 0014 0000 0000	RADIKA RYAN C	12 RUCKART DR, MORGANTOWN WV 25508 275
123	HARRISON	17	12	2009	40	17-209-0058-0001-0000 17-209-0040-0000-0000	MCDONALD ZACKERY & MCRGAN MESSINED ANTHONY) & MARKIDIRE L	1977 MOUNT CLAFE RD, MOUNT CLAFF WY 76408- PO BOX 127, MOUNT CLAFF WY 26408 BIZT
174	HARRISON	27	12	5(09)	69	12-2003-0060-0000-0000 12-2003-0069-0000-0000	BULLY I DAMN & RHAN (LE) (GEORGANN WIANT ETAL)	PO BOX 356, LOST CREEK WY 26385 0255
126	HARRISON	1.7	32	7009	72	12-2009-0072-0009-0000	SMITH GEORGIE M & CARL II	PO BOX 2018, LOST CREEK WAY YEARS 0279



47 633 05920



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

TRACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL
A	MARY K. MICK	12-367-1
В	MAR KEY LLC	12-367-29
C	MICHAEL L. AND LORI L. JACKSON	12-367-39.
D	MICHAEL L. AND LORI L. JACKSON	12-367-31
E	JANET COCCHI	12-367-31.
F	JANET COCCHI	12-366-11,
C	FREDRIC O. LEWIS	12-366-11.2
H	FREDRIC O. LEWIS	12-366-42.
1	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
М	ELIZABETH MARJORIE LAYMAN	12-2007-91
N	DONALD C. GORDON	12-2007-66
0	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.
AA	KAPPA SIGMA PI OF WV	20-2903-57
ВВ	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.
GC	JEFFREY C. AND SANDRA R. RUSH	20-2906-54
нн	JOSHUA W. AND KATHY J. BAKER	20-2904-27
11	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.
MM	CLARKSBURG COUNTRY CLUB	12-346-93.
NN	MARY K. MICK	12-366-5
00	LYNCH FARM LLC	12-346-93.2

DH 6-4-2018

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

WW-6A1 (5/13)

Operator's Well No.	Tony's Bridge 201
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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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or				

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: RECEIVED
Office of Oil and Gas

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

MAR 3 0 2018

WV Department of Environmental Protection

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**

Attachment to WW-6A1, Tonys Bridge 201

etter 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	F.S. Kelly, Jr., H. Stanley Butterworth, and Paul Lemann		DB 866/236	
	Hornor, his wife Hornor, his wife MAP Fractions. Kelly, Jr.	Corrine Roy Kelley		WB 75/1	

Attachment to WW-6A1, Tonys Bridge 201

nley Butterworth and Paul B. Lemann prinne Roy Kelly, widow, yally and as Executrix of Frank y, Jr., deceased, and J. Robert y, ancillary administrator c.t.a. ank S. Kelly, Jr., deceased Dal-Ken Corporation J. Robert Hornor Jerry C. Olds	Corinne Roy Kelly Dal-Ken Corporation Jerry C. Olds Jerry C. Olds Petroleum Resources, Inc.		DB 959/3 DB 992/601 DB 1050/232 DB 1073/740	
ually and as Executrix of Frank r, Jr., deceased, and J. Robert , ancillary administrator c.t.a. ank S. Kelly, Jr., deceased Dal-Ken Corporation J. Robert Hornor	Jerry C. Olds Jerry C. Olds		DB 1050/232	
J. Robert Hornor	Jerry C. Olds			
			DB 1073/740	
Jerry C. Olds	Petroleum Resources, Inc.			
			DB 1139/820	
etroleum Resources, Inc.	MBM Interests, Inc.		DB 1400/463	
Olds and Constance J. Olds, , MBM Investments, Inc., and Bowie, Inc.,	Antero Resources Appalachian Corporation		DB 1458/821	
ero Resources Appalachian Corporation	PDC Mountaineer, LLC		DB 1458/1315	
PDC Mountaineer, LLC	River Ridge Energy, LLC		DB 59/1263	
Salvatore A. Oliverio	Genesis Exploration and Production Co., LLC	12.50%	DB 1373/353	73.75
s Exploration and Production Co., LLC	PDC Mountaineer, LLC		DB 1444/1141	
PDC Mountaineer III. I	River Ridge Energy, LLC		DB 59/1263	
PI	Bowie, Inc., To Resources Appalachian Corporation DC Mountaineer, LLC Salvatore A. Oliverio Exploration and Production Co., LLC	Bowie, Inc., Corporation O Resources Appalachian Corporation PDC Mountaineer, LLC DC Mountaineer, LLC River Ridge Energy, LLC Genesis Exploration and Production Co., LLC Exploration and Production Co., LLC PDC Mountaineer, LLC	Bowie, Inc., Corporation O Resources Appalachian Corporation PDC Mountaineer, LLC DC Mountaineer, LLC River Ridge Energy, LLC Genesis Exploration and Production Co., LLC 12.50% Exploration and Production Co., LLC PDC Mountaineer, LLC	Bowie, Inc., Corporation DB 1458/821 To Resources Appalachian Corporation PDC Mountaineer, LLC DB 1458/1315 DC Mountaineer, LLC River Ridge Energy, LLC DB 59/1263 Genesis Exploration and Production Co., LLC 12.50% DB 1373/353 Exploration and Production Co., LLC DB 1444/1141

Attachment to WW-6A1, Tonys Bridge 201

etter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
3 (00008017)	D&V Barnett Trust UAD October 23, 1996, James A. Barnett, Trustee	Mar Key LLC	15%	DB 1604/273	62.04
4 (00008017)	D&V Barnett Trust UAD October 23, 1996, James A. Barnett, Trustee	Mar Key LLC	15%	DB 1604/273	62.04
5 (00008001)	Charles Gregory Yochym	Rockford Energy, LLC	12.50%	DB 1587/821	61
	Rockford Energy, LLC	Mar Key LLC		DB 1603/686	
6 (00008001)	Charles Gregory Yochym	Rockford Energy, LLC	12.50%	DB 1587/821	61
	Rockford Energy, LLC	Mar Key LLC		DB 1603/686	
MAR 30.2018 Environmental Protection					
2	Office of Oil and Gas				

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]

Office of Oli and Gas

W Department of Environmental Protection

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

MOUNTAINEER KEYSTONE LLC

Name: Lokes Keel

Title: CEO

PDC MOUNTAINEER, LLC

Name: EL Enl

Title: Caro

PDC MOUNTAINEER HOLDINGS, LLC

By: Name: Rhat Kee!

Name: "Elect Kee!"
Title: CEO

2

Agreement to Drill, Complete and Operate Oil & Gas Wells

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

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

[Signature Page Follows]

Office of Oil and Gas
MAR 30 .2018

WV Department of Environmental Protection

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

ARSENAL RESOURCES LLC

Name: Joel E. Symonds

Title: Vice President - Land

RIVER RIDGE ENERGY, LLC

Name: Joel E. Symonds

Title: Vice President - Land

RIVER RIDGE HOLDINGS, LLC

Name: Joel E. Symonds

Title: Vice President - Land

RECEIVED Office of Oil and Gas

MAR 30 2018

WV Department of Environmental Protection





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

Office of Oil and Gas

MAR 30 2018

Environmental Protection

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

2/20/10

Date of Notic	ce Certification:		API No. 4	7- 033	
	7.0		Operator's	Well No. Tony	's Bridge 201
			Well Pad	Name: Tony's	Bridge
Notice has l					
	e provisions in West Virginia Code	§ 22-6A, the Operator has	provided the re-	quired parties v	with the Notice Forms listed
	tract of land as follows:				
State:	West Virginia	UTM NAD 8	Easting:	555,528.009	
County:	Harrison		Northing:	4,342,410.343	
District:	Grant	Public Road		County Route 25	
Quadrangle:	Mount Clare	Generally use	d farm name:	Lynch Farm LLC	
Watershed:	Brown's Creek of West Fork River				
t has provide nformation re of giving the requirements Virginia Code	the secretary, shall be verified and ed the owners of the surface descrequired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applicant	ribed in subdivisions (1), (section sixteen of this article survey pursuant to subsection of this article were waived tender proof of and certify	2) and (4), sub e; (ii) that the re on (a), section I in writing by	section (b), section (b), section (b), section was ten of this artitle the surface over	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Crator has properly served the requience. CK ALL THAT APPLY			Certification	OOG OFFICE USE
		124 C			ONLY
☐ 1. NO.	TICE OF SEISMIC ACTIVITY of	r 🔳 NOTICE NOT REQ	UIRED BECA	USE NO	☐ RECEIVED/
		SEISMIC ACTIVITY W	AS CONDUC	TED	NOT REQUIRED
<u> </u>					
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SU	RVEY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL OF				☐ RECEIVED/
		NOTICE OF ENTRY FO WAS CONDUCTED or		VEY	NOT REQUIRED
		☐ WRITTEN WAIVE		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	ī			☐ RECEIVED
■ 5. PUE	BLIC NOTICE				☐ RECEIVED
■ 6. NO	TICE OF APPLICATION				RECEIVED RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided Broat of the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal tection 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.

WW-6AC (1/12)

By:

Its:

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: Arsenal Resources

William Veigel

NOTARY SEAIGFFICIAL SEAL

Designated Agent

724-940-1224 Telephone:

Address: 6031 Wallace Road Extension, Suite 300

Wexford, PA 15090

Facsimile: 304-848-9134

Email: cflanagan@arsenalresources.com

CAROLINDA FLANAGAN

PO Box 603 Lumberport WV 26386 My Commission Expires September 15, 2021

NOTARY PUBLIC STATE OF WEST VIRGINIA Subscribed and sworn before me this 28th day of March

Notary Public

My Commission Expires

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.

Environmental Protection

WW-6A (9-13) API NO. 47- 033 - 05920
OPERATOR WELL NO. Tony's Bridge 201
Well Pad Name: Tony's Bridge

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: 3/29/15 Date Permit Application Notice of:	Filed: 3/29/18
	TE OF APPROVAL FOR THE
WELL WORK CONSTRUC	TION OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code	§ 22-6A-10(b)
☐ PERSONAL ☐ REGISTERED [METHOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL	RECEIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires sediment control plan required by section seven of this at the surface of the tract on which the well is or is propose oil and gas leasehold being developed by the proposed of described in the crosion and sediment control plan submoperator or lessee, in the event the tract of land on which more coal seams; (4) The owners of record of the surface well work, if the surface tract is to be used for the places impoundment or pit as described in section nine of this have a water well, spring or water supply source located provide water for consumption by humans or domestic a proposed well work activity is to take place. (c)(1) If most subsection (b) of this section hold interests in the lands, records of the sheriff required to be maintained pursuant provision of this article to the contrary, notice to a lien by Code R. § 35-8-5.7.a requires, in part, that the operator water purveyor or surface owner subject to notice and we	adment or pit as required by this article shall deliver, by personal service or by a receipt or signature confirmation, copies of the application, the erosion and article, and the well plat to each of the following persons: (1) The owners of record of ed to be located; (2) The owners of record of the surface tract or tracts overlying the well work, if the surface tract is to be used for roads or other land disturbance as nitted pursuant to subsection (c), section seven of this article; (3) The coal owner, the the well proposed to be drilled is located [sic] is known to be underlain by one or we tract or tracts overlying the oil and gas leasehold being developed by the proposed ment, construction, enlargement, alteration, repair, removal or abandonment of any article; (5) Any surface owner or water purveyor who is known to the applicant to a within one thousand five hundred feet of the center of the well pad which is used to animals; and (6) The operator of any natural gas storage field within which the ore than three tenants in common or other co-owners of interests described in the applicant may serve the documents required upon the person described in the to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any rolled is not notice to a landowner, unless the lien holder is the landowner. W. Va. a shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any orater testing as provided in section 15 of this rule.
	COAL OWNER OR LESSEE
SURFACE OWNER(s) Name: See Attached	Name: See Attached
Address:	Address:
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturb	bance)
Name: See Attached	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: See Attached MAD: See Attached
Address:	Name: See Attached MAR 2 0
Name:	
Address:	Frank Den-
	Address:
☑ SURFACE OWNER(s) (Impoundments or Pits)	
Name: Mary K. Mick	Address:
Address: 132 Antier Drive	*Please attach additional forms if necessary
Clarksburg, WV 26301	riedse attach auditional forms if necessary

API NO. 47- 033 - 05 920 OPERATOR WELL NO. Tony's Bridge 201

Well Pad Name: Tony's Bridge

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12. Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upsyream of the (2) For a surface water intake on a nowing stream, the distance shall be measured from the wellhead or spring. The department of the distance shall be measured from the wellhead or spring. The department of the distance shall be measured from the wellhead or spring. 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, six and operations to protect the waters of the state. permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained ecitor, 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

API NO. 47-033 - 05920

OPERATOR WELL NO. Tony's Bridge 201

Well Pad Name: Tony's Bridge

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 after the application or construction of the applicant's proposed well work to the Secretary at:

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

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

WW-6A (8-13) API NO. 47- 033 - 05920
OPERATOR WELL NO. Tony's Bridge 201
Well Pad Name: Tony's Bridge

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.

Office of Oil and Gas

MAR 3 0 2018

WV Department of Environmental Protection 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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 603

OruEU,

Lumberport WV 26386 My Commission Expires September 15, 2021 Subscribed and sworn before me this 29th day of March 2018

100000000

My Commission Expires

Notary Public

Office of Oil and Gas
MAR 3 0 2018

WV Department of Environmental Protection

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 Office of Oil and Gas
MAR 3 0 2018

WW Department of Environmental Protection

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 Office Of Oil and Gas
MAR 30, 2018

WW Department of Protection

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 Office of Oil and Gas
MAR 3 0 2018

WV Department of Environmental Protection

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. Hustead; 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 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



WW-6A4 (1/12)

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 Date of Notic	Requirement: Notice shall be provided at ce: 3/29/18 Date Per	t least TEN (10) days prior to filing a mit Application Filed: 3/29	permit application.
Delivery met	hod pursuant to West Virginia Code § 2	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE	ERY RETURN RECEIPT REC	QUESTED	
receipt request drilling a hor of this subsect subsection mand if availab	sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided ay be waived in writing by the surface own the, facsimile number and electronic mail a	ner notice of its intent to enter upon to pursuant to subsection (a), section to I to the surface owner: <i>Provided, how</i> ner. The notice, if required, shall includers of the operator and the operator	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is ne Name: See Atta	reby provided to the SURFACE OW		
Address:	Cited	Name:Address:	
the surface ov State:	wner's land for the purpose of drilling a ho West Virginia	rizontal well on the tract of land as for	555,528.009
County:	Harrison	Northing:	4,342,410.343
District:	Grant	Public Road Access:	County Route 25
Quadrangle: Watershed:	Mount Clare Brown's Creek of West Fork River	Generally used farm name:	Lynch Farm LLC
Pursuant to V facsimile nur related to hor	nber and electronic mail address of the e rizontal drilling may be obtained from the	operator and the operator's authorized Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is be	nahar adama han		
	reby given by: r: Arsenal Resources	Authorized Representative:	William Veigel
Address:	6031 Wallace Road Extension, Suite 300	Address:	65 Professional Place
Wexford, PA 150		Bridgeport, WV 26330	CO I Tote Saloriai Flace
Telephone:	724-940-1224	Telephone:	724-940-1224
Email:	cflanagan@arsenalresources.com	Email:	724-940-1224 Cflanagen@arsenalresources.com Cflanagen@arsenalresources.com
Facsimile:	304-848-9134	Facsimile:	304-848-9134
			MAR 30 201
Oil and Gas	Privacy Notice:		- WO-

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory of duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or asction 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.

47 033 05920

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

Operator Well No. Tony's Bridge 201

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

Date of Notic	e: 3/29/18 Date Perm		3/29/18	5_
Delivery met	hod pursuant to West Virginia Cod	le § 22-6A-16(c)		
■ CERTII	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice.	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section to norizontal well; and (3) A proposed se surface affected by oil and gas opened as required by this section shall be given.	surface owner whose land his subsection shall include ten of this article to a surface surface use and compens rations to the extent the da wen to the surface owner a	I will be used for de: (1) A copy ace owner whost ation agreement amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Notice is her	eby provided to the SURFACE OW s listed in the records of the sheriff at	NER(s)		
Int the anddwar	e lieted in the records at the cheritt at	the time of notice):		
Name: See Atta		Name:		
Name: See Atta Address: Notice is her	eby given:	Name: Address		well operator has developed a planned
Name: See Atta Address:	eby given:	Name: Address tice is hereby given that the	ne undersigned of the tra	well operator has developed a planned act of land as follows: 555,528.009 4,342,410.343
Name: See Atta Address: Notice is her Pursuant to W operation on	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp	Name: Address tice is hereby given that the ose of drilling a horizonta	ne undersigned of l well on the tra Easting:	oct of land as follows: 555,528.009
Name: See Atta Address: Notice is her Pursuant to W operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Harrison	Name: Address tice is hereby given that the ose of drilling a horizonta UTM NAD 8 Public Road	ne undersigned of l well on the tra Easting: Northing:	oct of land as follows: 555,528.009 4,342,410.343
Name: See Atta Address: Notice is her Pursuant to W operation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(c), nothe surface owner's land for the purp West Virginia Harrison Grant	Name: Address tice is hereby given that the ose of drilling a horizonta UTM NAD 8 Public Road	ne undersigned of l well on the tra Easting: Northing: Access:	10t of land as follows: 555,528.009 4,342,410.343 County Route 25
Name: See Atta Address: Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Harrison Grant Mount Clare Brown's Creek of West Fork River Shall Include: Vest Virginia Code § 22-6A-16(c), the doby W. Va. Code § 22-6A-10(b) to dil; and (3) A proposed surface use an ed by oil and gas operations to the delated to horizontal drilling may be located at 601 57th Street, SE,	Name: Address tice is hereby given that the ose of drilling a horizonta UTM NAD 8 Public Road A Generally use of description and compensation agreement agreement the damages are compensationed from the Secret	ne undersigned of l well on the tra Basting: Northing: Access: ed farm name: A copy of this e land will be undersigned arm, at the WV	act of land as follows: 555,528.009 4,342,410.343 County Route 25 Lynch Farm LLC code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Name: See Atta Address: Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters,	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Harrison Grant Mount Clare Brown's Creek of West Fork River Shall Include: Vest Virginia Code § 22-6A-16(c), the deby W. Va. Code § 22-6A-10(b) to deby W. Va. Code § 22-6A-10(b) to deby oil and gas operations to the delated to horizontal drilling may be located at 601 57th Street, SE, Cault.aspx.	Name: Address tice is hereby given that the ose of drilling a horizonta UTM NAD 8 Public Road A Generally use of description and compensation agreement agreement the damages are compensationed from the Secret	ne undersigned of l well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be understand arry, at the WV (304-926-0450)	10t of land as follows: 555,528.009 4,342,410.343 County Route 25
Name: See Atta Address: Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Harrison Grant Mount Clare Brown's Creek of West Fork River Shall Include: Vest Virginia Code § 22-6A-16(c), the deby W. Va. Code § 22-6A-10(b) to deby W. Va. Code § 22-6A-10(b) to deby oil and gas operations to the delated to horizontal drilling may be located at 601 57th Street, SE, Cault.aspx.	Name: Address tice is hereby given that the ose of drilling a horizonta UTM NAD 8 Public Road and Generally use of the compensation agreement extent the damages are compensation that the Secret Charleston, WV 25304	ne undersigned of l well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be understand arry, at the WV (304-926-0450)	act of land as follows: 555,528.009 4,342,410.343 County Route 25 Lynch Farm LLC code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-Extension, Suite 300

Oil and Gas Privacy Notice:

Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regularity and Gas of business or as duties. Your personal information may be disclosed to other State agent needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our other state needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our other state of appropriately secure your personal information. If you have any questions about our use or your personal information, please contact appropriately secure your personal information. If you have any questions about our use or your personal information, please contact Environmental Protection Chief Privacy Officer at depprivacyofficer@wv.gov.

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

Office of Oil and Gas
MAR 30 2018

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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 57th 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,

Jim Justice

Governor

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,

Gary K. Clayton

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

Cc: Kelly Davis

ARSENAL Resources

CH, OM, D-4

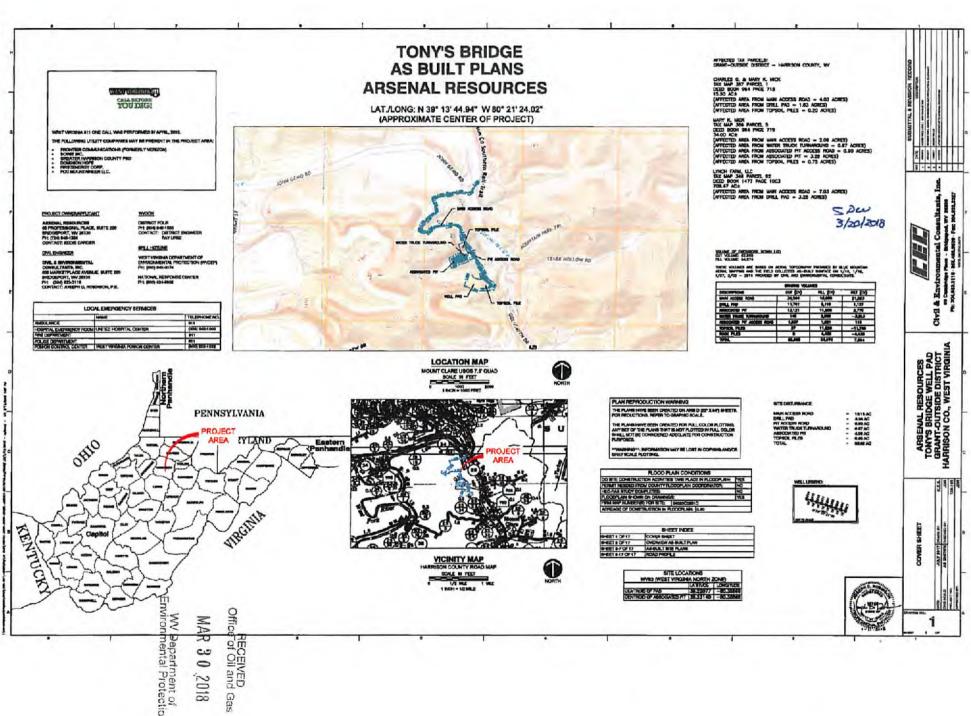
File

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

RECEIVED
Office of Oil and Gas

MAR 3 0 2018

WV Department of Environmental Protection



WVDEP OOG ACCEPTED AS-BUILT VAJ 4/16/2018

TONY'S BRIDGE AS BUILT PLANS **ARSENAL RESOURCES**

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

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TAX MAP 387 PRICEL TO
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(AFFERTED APPLA FROM DRICED PRICE = 0.20 ACRES)

MARY K. MICH MICH MICH PILLS = 11.40 AURES)

TAX MAP 346 PARCEL 19

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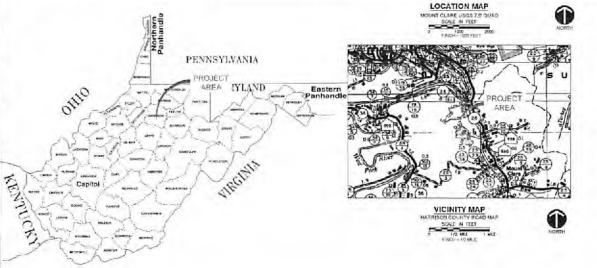
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(AFFECTE DAY FROM ASSOCIATED PT ACCESS TOWN = 0.90 ACRES)
(AFFECTED MARK FROM MICHOGRAF PULLS = 0.78 ACRES)

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MALINE OF EAST-MODES WHICH I'M DUT VILLAGE \$2,968 FEL VILLAGE \$4,976

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OUNCING VOLUMES					
DESCRIPTIONS	(12) (12)	AUT (EA)	MET (CY)		
MAIN ACCESS MOND	38,284	15,680	21,063		
DREAL PAG	11,761	3,610	1,127		
ASSOCIATED PHT	13,121	11.806	3.770		
WATER TRUCK TURNWOUND	145	2,585	~1,269		
ASSOCIATED PIT ACCESS ROAD	CKS7	1,521	116		
TOPSON, PRAIS	37	11,826	-11,780		
PUCK PILES		4,438	+4,436		
TOTAL	42 SE6	54 074	2 454		



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SHE LOCATIONS WYEST WINGINIA NORTH ZONE)						
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REFERENCE:

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- 19/5 AC - 526 AC - 836 AC - 887 AC 6 4 MAC - 885 AC - 98 85 AC

Civil &]

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

COVER SHEET

