

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, June 19, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

#### ARSENAL RESOURCES LLC 6031 WALLACE ROAD EXTENSION SUITE 603

WEXFORD, PA 15090

Re: Permit approval for GAMELLI HSOG 201 47-033-05922-00-00

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: GAMELLI HSOG 201 Farm Name: JAMES T. GAMELLIE ET AL. U.S. WELL NUMBER: 47-033-05922-00-00 Horizontal 6A New Drill Date Issued: 6/19/2018

Promoting a healthy environment.

API Number: 47 033 05922

# **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. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

#### **CONDITIONS**

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

API Number: <u>47033</u>05922

# **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, sending an email to DEPOOGNotify@wv.gov.

API NO. 47-033-05922

OPERATOR WELL NO. Gamelli HSOG 201 Well Pad Name: Gamelli HSOG

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

1) Well Operator: Arsenal Reso	ources	494519412	Harrison	Simpson	Rosemont
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Gan	nelli HSOG 20	01 Well P	ad Name: Gar	melli HSOG	
3) Farm Name/Surface Owner:	ames T. Game	elli et al Public R	oad Access: C	R 17	
4) Elevation, current ground: 1	,132.10' I	Elevation, propose	d post-construc	ction: 1,141.	.00'
5) Well Type (a) Gas X Other	Oil	Un	derground Stor	rage	
(b)If Gas Shall	ow X	Deep			-0 (1)
Horiz	contal X				59 W 4/3/201
6) Existing Pad: Yes or No No			<u>-</u>		4/3/201
7) Proposed Target Formation(s),				Pressure(s):	
Marcellus Shale, 7,238' (TVD To	p) - 7,338' (Bot	tom), 100 ft, 0.5 ps	si/ft		
8) Proposed Total Vertical Depth:	7,317'				
9) Formation at Total Vertical Dep	pth: Marcellu	us Shale			
10) Proposed Total Measured Dep	oth: 15824'			Office o	CEIVED FOII and Gas
11) Proposed Horizontal Leg Leng	gth: 7,567'			APR	1
12) Approximate Fresh Water Stra		96', 246', 366'	, 671'	E WYD	1 2018
13) Method to Determine Fresh W		Offsetting wells	water depths	(033-02428;	033(02986)
14) Approximate Saltwater Depth					-314
15) Approximate Coal Seam Dept		pected			
16) Approximate Depth to Possib			None expec	ted	
17) Does Proposed well location of directly overlying or adjacent to a	contain coal se	ams		No X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:				

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API NO. 47-033 - 05922

OPERATOR WELL NO. Gamelli HSOG 201 Well Pad Name: Gamelli HSOG

#### 18)

### CASING AND TUBING PROGRAM

# 4703305922

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	Weight per ft. (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	24	New	H-40	94	80	80	CTS
Fresh Water	13.375	New	J-55	54.5	750 🗸	750	CTS
Coal		1.1					
Intermediate	9.625	New	J-55	40	2,450	2,450	CTS
Production	5.5	New	P-110	20	15,824	15,824	TOC @ 2,300
Tubing							
Liners				9			

# 5000 4/3/2018

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (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% CaGl2	1.2
Coal				·	17 Y 1 1 1		
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				1	5,000		
Liners					N/A		

PACKERS

Office of Oil and Gas APR ¥ 1 2018 Kind: Environmental Protection Sizes: Depths Set:

WW-6B (04/15)

#### 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): 19.4

22) Area to be disturbed for well pad only, less access road (acres): 7.3

23) Describe centralizer placement for each casing string:

24"- No centralizers 13 3/8" - one bow spring centralizer on every other joint 9 5/8" - one bow spring centralizer every third joint from TD to surface 5 1/2" - one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,600'; there will be no centralizers from 2,600 to surface.

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

24" will be circulated to surface. The 13 3/8" casing will be cemented to surface with Class A cement and no greater than 3% CaCI (calcium chloride). The 9 5/8" casing will be cemented to surface. The 15 vio casing will be cemented to surface with Class A cement and to greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 2,300' (+/-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, Bertiotty 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, pelos cement achieve a "right angle" set) during the plastic phase of the cement set-up. 1 <u>1 2018</u> a "right angle" set) during the plastic phase of the cement set-up.

#### 25) Proposed borehole conditioning procedures:

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

\*Note: Attach additional sheets as needed.

Gamelli HSOG 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 APR 1 1 2018

WV Department of Environmental Protection

			Casing Design Directional Plan # :		
Other Names:	N/A			County:	Harrison
Surface Location: Sottom Hole Location:	TBD TBD			State: AFE #:	West Virginia XX API#: XX
fotal Depth:	15,824 MD (ft)			RKB:	27
	7,317 TVD (ft)			Ground Level:	1,141
.0gs	Significant Formations (TVD)	Depth (ft) MD	Depth (ft) TVD	Hole Size	Casing and Mud Directional & Surveys Cement Drlg /Csg Point
	Section 1				
lone	Section 1		Drive Pipe		
		80	80	24" 94# H-40 STC	Vertical
one				17 1/2" (PDC)	Floc Water
	Section 2		Floc	TOC	ement: Class A 489 Sacks w/ 30% Excess C: Surface (top off if needed) ement volumes are estimates
ossible BL after cement job		750	750	13 3/8" 64.5# J-55 STC	Vertical
lone	Section 3		Floc	12 1/4" (PDC)	Floc Water
				TOC: 8	Ement: Class A 678 Sacks w/ 50% Excess Surface (top off if needed) ement volumes are estimates
'ossible CBL after cement job		2,450	2,450	9 5/8" 40# J-55 LTC	Vertical
	Section 4		Floc	Mud Data Floc Water Floc Water 11.5- 12.0 ppg SOBM	From To 80 2459 2450 7257 7,257 15,824
				Bit Data 17-1/2" & 12 1/4" PDC 8- 3/4" (PDC) 8- 1/2" (PDC) Directional Data	From Te   80 2,450   2,450 8,257   8,257 15,824   See Directional Plan
			овм	Directional Data	
	Big Lime		1,278		
	1st Elk Siltstone		4,650		
	Tully Lime		6,998		
	Purcell (Limestone)		7,303	Cement: Class A: 50/50	POZ
	Lower Marcellus		7,306	1.2 ft3/sack +10% Exs in	n OH = 2591 sacks TOC: 2,300 ft coment volumes are estimates
	15,824 MD 7317 TVD				
					5 1/2" 20# P-110 VAR
Revision	1		Note: Not drawn to s		Cement Outside Casing

Office of Oil and Gas APR 1 1 2018 Environmental Protection

# 06/22/2018

WW-9 (4/16)

API Number 47 - 033 -

Operator's Well No. Gamelli HSOG 201

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Arsenal Resources	OP Code 494519412
Watershed (HUC 10) Beards Run	Quadrangle Rosemont
Do you anticipate using more than 5,000 bbls of water to com Will a pit be used? Yes <u>Ves</u> No <u>No</u>	plete the proposed well work? Yes 🔽 No
If so, please describe anticipated pit waste: Produc	ced water
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 60 ml
Proposed Disposal Method For Treated Pit Wastes:	SDev
Land Application	5000 413/2018
Underground Injection (UIC Perm	nit Number
Reuse (at API Number_Various	)
Off Site Disposal (Supply form W Other (Explain	W-9 for disposal location)
Drilling medium anticipated for this well (vertical and horizon	cop system will contain all of the drilling medium and drill outings on location and then be taken to a landfill ntal)? Air, freshwater, oil based, etc
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium?Bentonite, Soap & Polyn	ner Sticks, Soda Ash, Sodium Bicarbonate, Defoamer, Base Oil, Emulsifiers, Lime, Barite
Drill cuttings disposal method? Leave in pit, landfill, remove	d offsite, etc. Landfill
-If left in pit and plan to solidify what medium will b	e used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Advanced I	

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

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

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

Company Official Signature	Offica of Oil and Gas
Company Official (Typed Name) William Veige	
Company Official Title Designated Agent	Environmental Protection
Subscribed and sworn before me this <u>3rd</u> day of <u>April</u> My commission expires <u>9/15/2021</u>	Notary Public Notary Public STATE OF WEST VIRGINIA CAROLINDA FLANAGAN OG/22/02/018 Limbapor WV 25388 My Commission Expins Sectember 15, 2021

#### Arsenal Resources

d Revegetation Treatment: Acres Dist	urbed 19.4	Prevegetation pH	6.8 Average
Lime 2.67 Tons/acre of	to correct to pH _6.4		
Fertilizer type 10-20-20			
Fertilizer amount 1000	lbs/acre		
Mulch 3-4	Tons/acre		
	Seed Mixtures		
Temporary		Perman	ent

Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	129	<b>Orchard Grass</b>	129
Rye	93	Rye	93
Clover	24	Clover	24
Timothy	45	Timothy	45

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Be aced and mulab all dis	Vandet sturbed areas as soon as	s reasonably possible
per regulation. Upgrade erosion a		
per the West Virginia Erosion an		H. S. P. A. L. S. L.
		Office of Oil an APR 112
Title: 006 Inspector Field Reviewed? (X) Yes	$Date: \underline{4/3/201}$	r W/D-



# **SITE SAFETY PLAN**

# Gamelli HSOG #201 WELL PAD

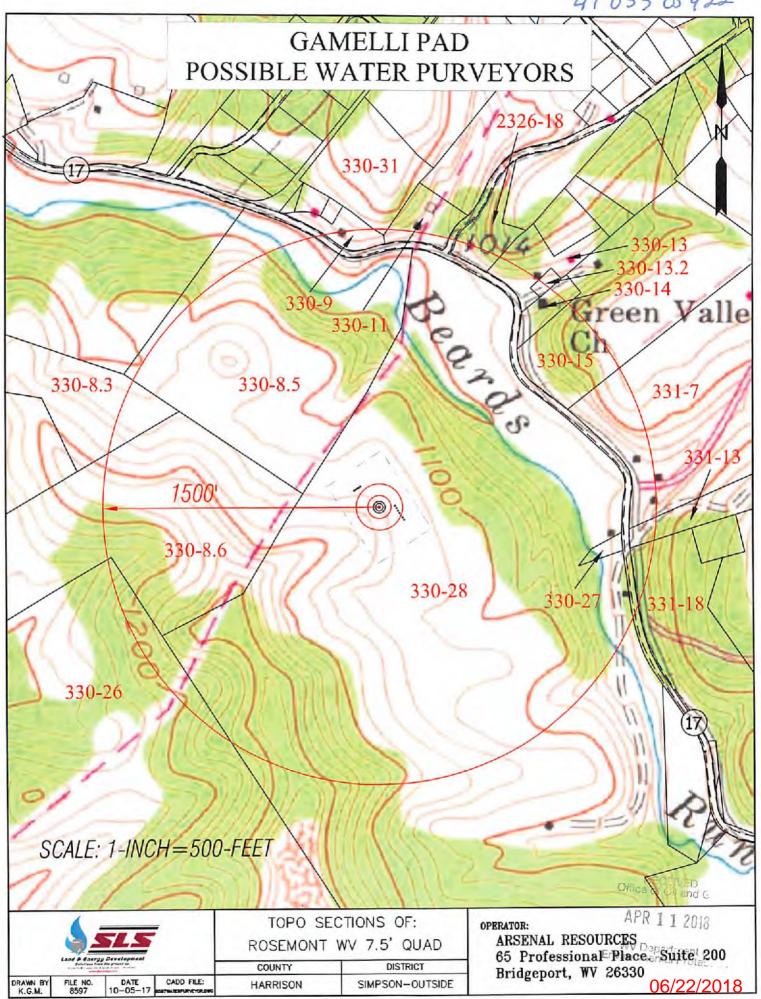
911 Address:

4423 Green Valley Rd

Bridgeport, WV 26330

SDW 3(8)2018 Office of Cill and Gas APR 1 1 2018 WV Department of Environmental Protection

47 033 05922





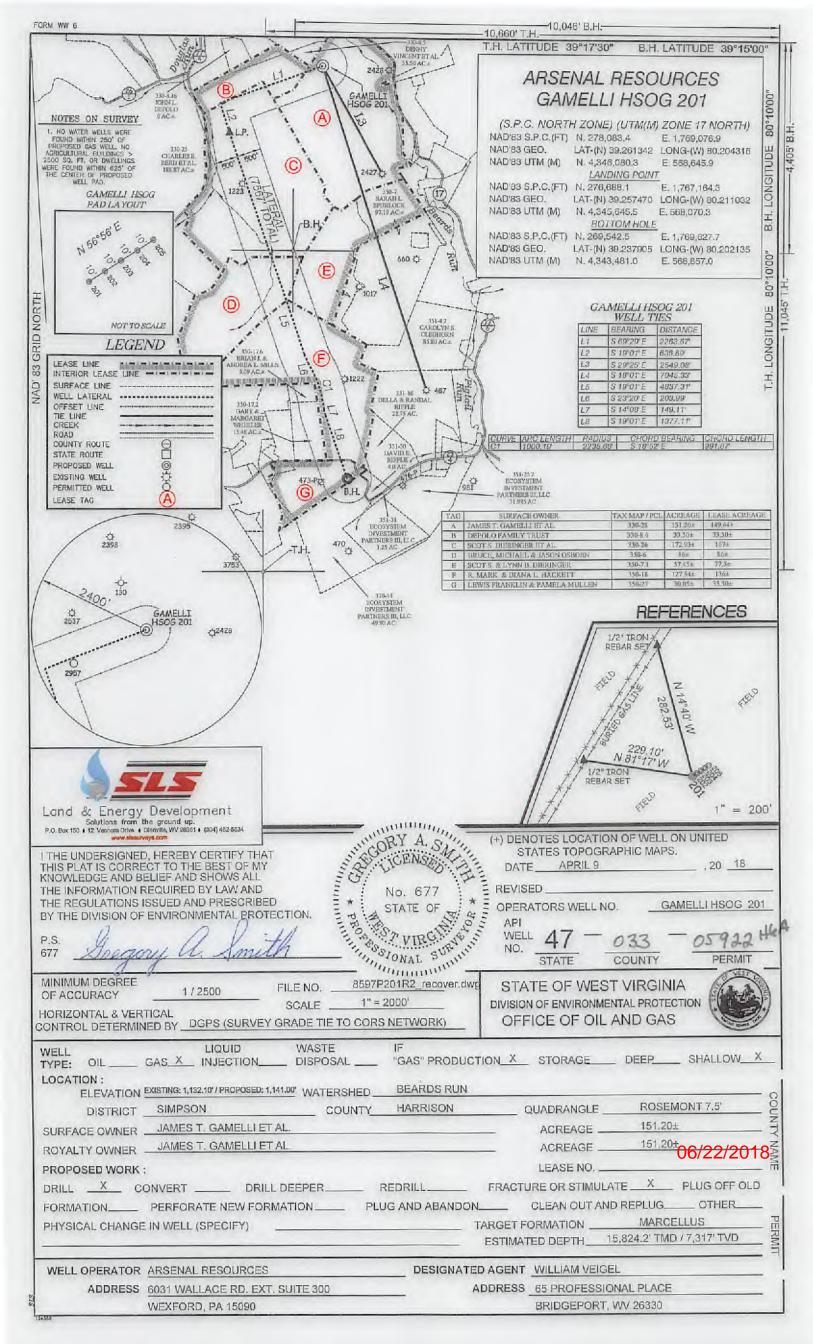
#### Possible Water Purveyors within 1,500 feet of Gamelli Pad

MAP	PARCEL	OWNER	ADDRESS
330	8.3	DEPOLO JOHN L	PO BOX 4610, BRIDGEPORT, WV 26330
330	8.5	VINCENT DENNY HAROLD & DONNA	3139 GREGORYS RUN RD , CLARKSBURG , WV 26301
330	8.6	DEPOLO FAMILY TRUST C/O JOHN DEPOLO	PO BOX 4610, BRIDGEPORT, WV 26330
330	9	MYERS RONALD E & LAURA L	RR 5 BOX 116M , BRIDGEPORT , WV 26330
330	11	ALDRIDGE THOMAS G & ANNA C	161 CLEER RD , BRIDGEPORT , WV 26330
330	13	SANDY A WALTER	4960 GREEN VALLEY RD , BRIDGEPORT , WV 26330
330	13.2	CUMBERLEDGE GEORGE E & JANET C	4960 GREEN VALLEY RD , BRIDGEPORT , WV 26330
330	14	TRUSTEES GREEN VALLEY M E CHURCH	UNKNOWN
330	15	SANDY RICHARD A & DOREEN	200 BLUE RIDGE DR , BRIDGEPORT , WV 26330
330	26	DIERINGER SCOT S & LYNN B	894 MAPLE LAKE RD , BRIDGEPORT , WV 26330
330	27	KING EDWIN L & JAMES T GAMELLI - C/O GOG LLC & JAMES T GAMELLI	821 CIRCLE DR , MOUNT CLARE , WV 26408
330	28	KING EDWIN L & JAMES T GAMELLI - C/O GOG LLC & JAMES T GAMELLI	821 CIRCLE DR , MOUNT CLARE , WV 26408
330	31	LAMOUREUX KENNETH & REBECCA	64 TRAILS END RD , BRIDGEPORT , WV 26330
331	7	PATRICK DAVID MARK	4724 GREEN VALLEY RD , BRIDGEPORT , WV 26330
331	13	MOORE WILLIE ESTATE & GOLDIE	PO BOX 55 , HEPZIBAH , WV 26369
331	18	OWEN MARK B	130 OWEN LN , BRIDGEPORT , WV 26330
2326	18	MARKS JONATHON E & STEPHANIE A	PO BOX 179, BRIDGEPORT, WV 26330

RECEIVED Office of Oil and Gas

APR 1 1 2018

WV Department of Environmental Protection



WW-6A1 (5/13)

#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or	and the second		-	P 1/P
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Attached

Office of Off and Gas

#### 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 tection possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

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

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

Well Operator:	Arsenal Resources	
By:	William Veigel	Nuess
Its:	Designated Agent	0

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## 06/22/2018

etter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
A					
(00007225)	Edwin L. King	Mar Key LLC	15	DB 1576/507	149.44
Α					
(00007205)	James T. Gamelli	Mar Key LLC	15	DB 1576/220	149.44
B (00007888)	Opal Katharine Hustead, unmarried, Opal Katharine Hustead, as Attorney in-fact for Dallas J. Hustead and Mary F. Hustead, husband and wife, and Harold F. Hustead and Janette J. Hustead, husband and wife	NRM Petroleum Corporation	12.5	DB 1098/198	148
(00007886)	Husteau, Husbanu and Wife			Unrecorded, Secretary	
	NRM Petroleum Corporation	Natural Resources Management Corporation		of State	
<u> </u>					
	Natural Resources Management			Unrecorded, Secretary	
	Corporation	Edisto Resources Corporation		of State	
	NRM Operating Company, L.P., a Delaware limited partnership, Edisto Resources Corporation, a Delaware corporation, NRM 1984-B Income Ltd., a Texas limited partnership, and NRM	Eastern American Energy		DB 1216/558	
	1984-D Income Ltd.	Corporation			
	Eastern American Energy Corporation	Energy Corporation of America		Certification of Incorporation Book 59/879	
ព្វា	Energy Corporation of America	Mar Key LLC		DB 1596/1233	_
B 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Energy Corporation of America	Mar Key LLC	13	DB 1600/579	33.5
B (00007971) B (00007971)					

#### Attachment to WW-6A1, GAMELLI HSOG 201

Attachment to WW-6A1, GAMELLI HSOG 201

С					
(00004022)	Mary Alice Hafer	Petroleum Development Corp.	12.5	DB 1048/294	125
•					
C (00004023)	William D. Courtney, a married man and Margaret D. Courtney, widow	Petroleum Development Corp.	12.5	DB 1064/1090	167
(00004025)	and Margaret D. Courtney, widow	Petroledin Development corp.		001004/1000	
	Petroleum Development Corp.	PDC Mountaineer, LLC		DB 1457/703	
	r cubicum bevelopment corp.				
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
D					
(00006680)	DWG Oil and Gas Acquisitions, LLC	Mar Key LLC	15	DB 1561/493	86
Ε					
(00004022)	Mary Alice Hafer	Petroleum Development Corp.	12.5	DB 1048/294	125
	Petroleum Development Corp.	PDC Mountaineer, LLC		DB 1457/703	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
	John Lancaster Heirs, Mary Lancaster	Myer Mage Energy, Ere			
F	Costilow, widow Lena L. Winters,				
(00004366)	widow	Petroleum Development Corp.	12.5	DB 1060/292	136
·				· · · · · · · · · · · · · · · · · · ·	
	Petroleum Development Corp.	PDC Mountaineer, LLC		DB 1457/703	
G					
(00007203)	Lewis Franklin Mullen, widower	Mar Key LLC	15	DB 1576/217	35.5
			┨────┤		
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# Agreement to Drill, Complete and Operate Oil & Gas Wells

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Mountaineer Keystone LLC, a West Virginia limited liability company ("Mountaineer Keystone"), PDC Mountaineer, LLC, a Delaware limited liability company ("PDC"), and PDC Mountaineer Holdings, LLC, a Delaware limited liability company ("PDC"), and PDC 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 bydrocarbons 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
- 3. No Third Party Beneficiary: This Agreement is for the benefit of the Parties and is not for the benefit of any third party.
- 4. Counterparts: This Agreement may be simultaneously executed in several counterparts and via facsimile or similar electronic transmittal, each of which shall be deemed to be an original and taken together shall constitute one and the same instrument.

[Signature Page Follows]

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WV 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

By: Name: Laker S Title: CEO

PDC MOUNTAINEER, LLC By Namer

Title: CEO

PDC MOUNTAINEER HOLDINGS, LLC

By: Name: LL

Title: CEO

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WV Department of Environmental Protection

US\_ACTIVE-117570292

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

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

- 1. Term: This Agreement is effective from the Effective Date until terminated by Arsenal on the one hand or River Ridge and River Ridge Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").
- 2. Authorization to Operate: River Ridge and River Holdings authorize Arsenal to undertake and perform, on River Ridge and River Ridge Holdings behalf, all operations, including without limitation permit applications, well pad preparation, drilling and completing wells, and marketing gas, oil and other hydrocarbons thereform 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 from time to time as directed by River Ridge or River Ridge Holdings (collectively, the "Wells").
- 3. No Third Party Beneficiary: This Agreement is for the benefit of the Parties and is not for the benefit of any third party.
- 4. Counterparts: This Agreement may be simultaneously executed in several counterparts and via facsimile or similar electronic transmittal, each of which shall be deemed to be an original and taken together shall constitute one and the same instrument.

[Signature Page Follows]

RECEIVED Office of Oil and Gas

APR 1 1 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** 

By: ma Name: Joel E. Symonds

Title: Vice President - Land

**RIVER RIDGE ENERGY, LLC** 

By: Name: Joel E. Symonds

### **RIVER RIDGE HOLDINGS, LLC**

By Name: Joel E. Symonds

Title: Vice President - Land

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WV Department of Environmental Protection

Title: Vice President - Land

06/22/2018

11/28/2017

# West Virginia Secretary of State — Online Data Services

### **Business and Licensing**

**Online Data Services Help** 

## **Business Organization Detail**

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

## MAR KEY LLC

Organiza	ation Info	rmation						
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
LLC   Limited Liability Company	7/11/2011		7/11/2011	Domestic	Profit			

Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction	Capital Stock			
Charter County		Control Number	99Q1F		
Charter State	w	Excess Acres			
At Will Term	A	Member Managed	MBR	Office (	ECEIVED of Oil and G
At Will Term Years		Par Value			1 1 2018 epartment d ental Prote

/22/2018

11/28/2017

#### Authorized Shares

Addresses		
Туре	Address	
Designated Office Address	65 PROFESSIONAL PLACE SUITE 200 BRIDGEPORT, WV, 26330	
Mailing Address	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA	
Notice of Process Address	CORPORATION SERVICE COMPANY 209 WEST WASHINGTON STREET CHARLESTON, WV, 25302	
Principal Office Address	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA	
Туре	Address	

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

Annual Reports	Environa E	Pertment of ental Protection
Date filed		

3/30/2017	
6/20/2016	
6/30/2015	
4/28/2014	
6/28/2013	
5/8/2012	
Date filed	 

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

Tuesday, November 28, 2017 — 9:44 AM

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Office of Oil and Gas APR 1 1 2018

Wy Department of Environmental Fronsotion



People Powered. Asset Strong.



April 5, 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 - Gamelli HSOG Unit (Well 201)

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 wells in the proposed unit. 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 rights-of-way. 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,

Joseth B. Bripini

Jonathan B. Bompiani Senior Title Attorney

> Office of Oil and Gas APR 1 1 2018

WV Department of Environmental Protection Wexford, PA 15090 P: 724-940-1100 F: 800-428-0981 www.arsenairesources.com



#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 4/10/2018

API No. 47- 033	
<b>Operator's Well No.</b>	Gamelli HSOG 201
Well Pad Name: Ga	amelli HSOG

#### Notice has been given:

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

State:	West Virginia	UTM NAD 83 East	ing:	568,645.94	
County:	Harrison	OTMINAD 83 Nor	thing:	4,346,080.30	
District:	Simpson	Public Road Access:		CR 17	
Quadrangle:	Rosemont	Generally used farm n	ame:	James T. Gamelli	
Watershed:	Beards Run				

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

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

#### **Required Attachments:**

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

APR 1 1 2018

W Department of Invironmental Protection 06/22/2018

#### 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	Address:	6031 Wallace Road Extension, Suite 300	
By:	William Veigel		Wexford, PA 15090	
Its:	Designated Agent	Facsimile:	304-848-9134	
Telephone:	724-940-1224	Email:	cflanagan@arsenalresources.com	
	STATE OF WEST VIRGINIA CAROLINDA FLANAGAN PO Bro RIA	eribed and swo <u>anole</u> Commission Ex	orn before me this $10^{74}$ day of <u>APR(L 2018</u> . Notary Public spires <u>9/15/2021</u>	

#### **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.

WW-6A (9-13)

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice:4/10	IB	Date Permit Application Filed:	4/10	18
Notice of:				

$\checkmark$	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE		
	WELL WORK	CONSTRUCTION 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

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

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

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: See Attached	Name: See Attached
Address:	Address:
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name: See Attached	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attached
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELDVED
SURFACE OWNER(s) (Impoundments or Pits)	Name: Onde of Onland Gas
Name: See Attached	Address: APR 1 1 2013
Address:	
	*Please attach additional forms if necessary WV Department of Environmental Providence

06/22/2018

API NO. 47-OPERATOR WELL NO. Gamelli HSOG 201 Well Pad Name: Gamelli HSOG

#### 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. RECEIVED

e of Cil and Ga 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.god/offand-gas/pages/default.aspx. Environments, Protection

#### Well Location Restrictions

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

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

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

APR **1 1** 2018

WV Department of Environmental Protoction

API NO. 47-\_\_\_\_ OPERATOR WELL NO. Gamelli HSOG 201 Well Pad Name: Gamelli HSOG

#### 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-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### **Permit Denial or Condition**

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

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

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

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

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WV Department of Environmental Protection

06/22/2018

(8-13)	
Notice is hereby given by: Well Operator: Arsenal Resources	Wow SI
Telephone: 724-940-1224	
Email: cflanagan@arsenalresources.cc	m

API NO. 47-OPERATOR WELL NO. Gamelli HSOG 201 Well Pad Name: Gamelli HSOG

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA CAROLINDA FLANAGAN PO Box 603 Lumberport W 26386 My Commission Expires September 15, 2021	Subscribed and sworn before me this 10 <sup>TH</sup> day of <u>APRIL 2018</u> . Molendar <u>Notary Public</u> My Commission Expires <u>9/15/2021</u>
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# Arsenal Resources <u>Gamelli HSOG Well Site</u> WW-6A Notice of Application – Attachment (Page 1 of 2)

#### Surface Owner(s):

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

GOG, LLC 90 Snuffy Road (Office) Bridgeport, WV 26330

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

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

#### GOG, LLC 90 Snuffy Road (Office) Bridgeport, WV 26330

#### Surface Owner(s) (Impoundment or Pits):

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

GOG, LLC 90 Snuffy Road (Office) Bridgeport, WV 26330

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WW Dopartment of Environmental Protection

# Arsenal Resources <u>Gamelli HSOG Well Site</u> WW-6A Notice of Application – Attachment (Page 2 of 2)

#### **Coal Owner of Lessee:**

#### **Coal (Pittsburgh Seam):**

Huntington National Bank, Trustee Under The Maxwell Y. Sutton Testamentary Trust 41 S. High Street Columbus, OH 53215

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

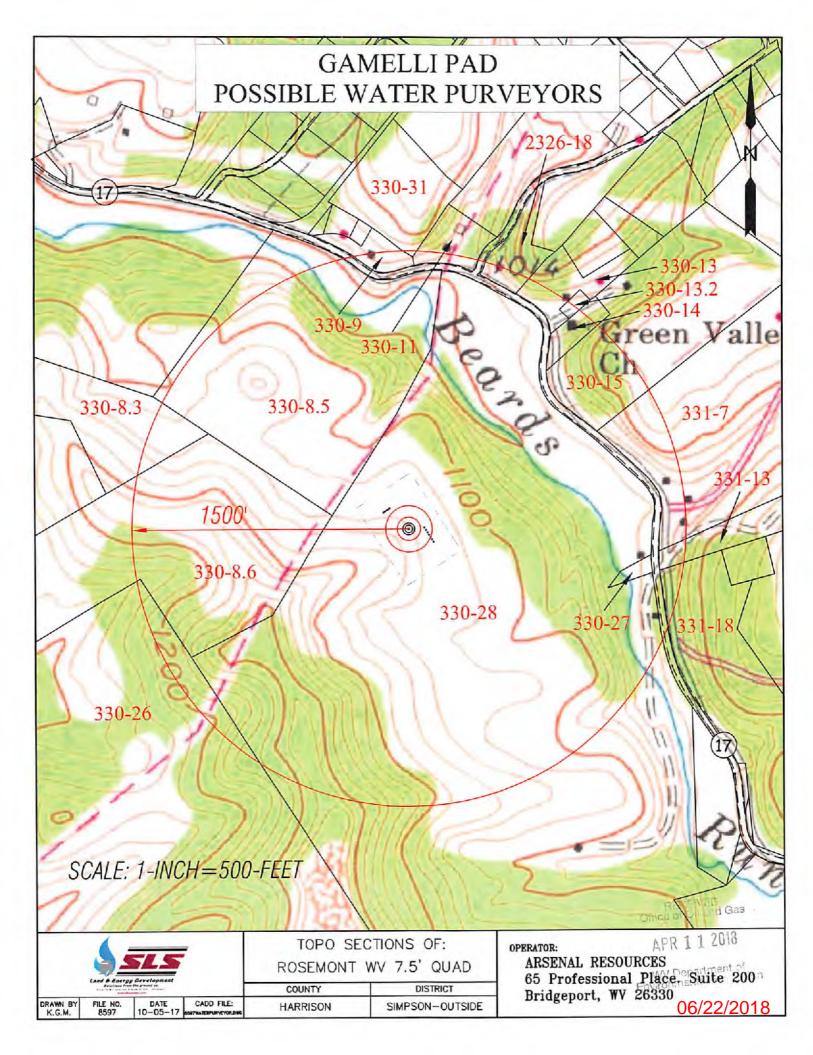
GOG, LLC 90 Snuffy Road (Office) Bridgeport, WV 26330

#### **Coal (Kittanning Seam):**

Coalquest Development, LLC 100 Tygart Drive Grafton, WV 26354

**Coal (All Other Seams):** James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

GOG, LLC 90 Snuffy Road (Office) Bridgeport, WV 26330





#### Possible Water Purveyors within 1,500 feet of Gamelli Pad

MAP	PARCEL	OWNER	ADDRESS
330	8.3	DEPOLO JOHN L	PO BOX 4610 , BRIDGEPORT , WV 26330
330	8.5	VINCENT DENNY HAROLD & DONNA	3139 GREGORYS RUN RD , CLARKSBURG , WV 26301
330	8.6	DEPOLO FAMILY TRUST C/O JOHN DEPOLO	PO BOX 4610, BRIDGEPORT, WV 26330
330	9	MYERS RONALD E & LAURA L	RR 5 BOX 116M , BRIDGEPORT , WV 26330
330	11	ALDRIDGE THOMAS G & ANNA C	151 CLEER RD , BRIDGEPORT , WV 26330
330	13	SANDY A WALTER	4960 GREEN VALLEY RD , BRIDGEPORT , WV 26330
330	13.2	CUMBERLEDGE GEORGE E & JANET C	4960 GREEN VALLEY RD , BRIDGEPORT , WV 26330
330	14	TRUSTEES GREEN VALLEY M E CHURCH	UNKNOWN
330	15	SANDY RICHARD A & DOREEN	200 BLUE RIDGE DR , BRIDGEPORT , WV 26330
330	26	DIERINGER SCOT S & LYNN B	894 MAPLE LAKE RD , BRIDGEPORT , WV 26330
330	27	KING EDWIN L & JAMES T GAMELLI - C/O GOG LLC & JAMES T GAMELLI	821 CIRCLE DR , MOUNT CLARE , WV 26408
330	28	KING EDWIN L & JAMES T GAMELLI - C/O GOG LLC & JAMES T GAMELLI	821 CIRCLE DR , MOUNT CLARE , WV 26408
330	31	LAMOUREUX KENNETH & REBECCA	64 TRAILS END RD , BRIDGEPORT , WV 26330
331	7	PATRICK DAVID MARK	4724 GREEN VALLEY RD , BRIDGEPORT , WV 26330
331	13	MOORE WILLIE ESTATE & GOLDIE	PO BOX 55 , HEPZIBAH , WV 26369
331	18	OWEN MARK B	130 OWEN LN , BRIDGEPORT , WV 26330
2326	18	MARKS JONATHON E & STEPHANIE A	PO BOX 179, BRIDGEPORT, WV 26330

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06/22/2018

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 09/01/2016 Date of Planned Entry: 09/07/2016

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

PERSONAL		REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	1	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

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

#### Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: See Attached	Name: See Attached
Address:	Address:
Name:	
Address:	MINERAL OWNER(s)
	Name: See Attached
Name:	Address:
Address:	
	*please attach additional forms if necessary

#### Notice is hereby given:

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

State:	West Virginia	Approx. Latitude & Longitude:	39.260680, -80.204403	
County:	Harrison	Public Road Access:	CR 17	
District:	Simpson	Watershed:	Beards Run	
Quadrangle:	Rosemant	Generally used farm name:	James T. Gamelli	

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

APR 1 1 2018

Notice is hereby given by:	Not	ice	is	here	by	given	by:
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Telephone: Email:	724-940-1224 cflanagan@arsenalresources.com	Facsimile:	Wexford, PA 15090 304-848-9134	
	Arsenal Resources	Address:		Environmental Pretablion

#### **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 <u>depprivacyofficer@wv.gov</u>.

### Arsenal Resources <u>Gamelli HSOG Well Site</u> WW-6A3 Notice of Entry for Plat Survey – Attachment Page 1 of 2

#### Drill Site (Surface) 47-033-15-330-28

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

Edwin King 1816 Snake Run Road Wampum, PA 16157

#### Drill Site (Oil & Gas) 47-033-15-330-28

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

Edwin King 1816 Snake Run Road Wampum, PA 16157

#### Drill Site - Coal (Pittsburgh Seam) 47-033-15-330-28

Huntington National Bank, Trustee Under The Maxwell Y. Sutton Testamentary Trust 41 S. High Street Columbus, OH 53215

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

Edwin King 1816 Snake Run Road Wampum, PA 16157

#### Drill Site – Coal (Kittanning Seam) 47-033-15-330-28

Coalquest Development, LLC 300 Cooperate Center Drive Scott Depot, WV 26560 RECEIVED Office of Oil and Gas

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### Arsenal Resources <u>Gamelli HSOG Well Site</u> WW-6A3 Notice of Entry for Plat Survey – Attachment page 2 of 2

#### Drill Site - Coal (All Other Seams) 47-033-15-330-28

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

Edwin King 1816 Snake Run Road Wampum, PA 16157

#### Impoundment (Surface) 47-033-15-330-28

James T. Gamelli 4583 Green Valley Road Bridgeport, WV 26330

Edwin King 1816 Snake Run Road Wampum, PA 16157

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#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 4/10/2018 Date Permit Application Filed: 4/10/2018

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

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

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

Name: James T. Gamelli	Name: GOG, LLC
Address: 4583 Green Valley Road	Address: P.O. Box 4010
Bridgeport, WV 26330	Clarksburg, WV 26301

#### Notice is hereby given:

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

State:	West Virginia	LITMANAD 82	Easting:	568,645,94	
County:	Harrison	UTM NAD 83	Northing:	4,346,080.30	
District:	Simpson	Public Road Acce	ess:	CR 17	
Quadrangle:	Rosemont	Generally used fa	rm name:	James T. Gamelli	
Watershed:	Beards Run				

#### This Notice Shall Include:

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

#### Notice is hereby given by:

Well Operator:		Authorized Representative:	William Veigel
Address:	6031 Wallace Road Extension, Suite 300	Address:	65 Professional Place, Suite 200 WV Denartment of Environmental Protection
Wexford, PA 15090	)	Bridgeport, WV 26330	Environmental Frederic
Telephone:	724-940-1224	Telephone:	724-940-1224
Email:	cflanagan@arsenalresources.com	Email:	cflanagan@arsenalresources.com
Facsimile:	304-848-9134	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 <u>depprivacyofficer@wv.gov</u>.

APR 1 1 2018

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF PLANNED OPERATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice:  $\frac{4/10}{2018}$  Date Permit Application Filed:  $\frac{4/10}{2018}$ 

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

驘	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

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

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

(at the address listed in the records of the sheriff at the time of notice):

Name: GOG, LLC
Address: P.O. Box 4010
Clarksburg, WV 26302

#### Notice is hereby given:

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

State:	West Virginia	LITELANIA D. 02	Easting:	568,645.94	
County:	Harrison	- UTM NAD 83	Northing:	4,346,080.30	
District:	Simpson	Public Road Ac	cess:	CR 17	_
Quadrangle:	Rosemont	Generally used	farm name:	James T. Gamelli	-
Watershed:	Beards Run	-			

#### This Notice Shall Include:

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

Well Operator:	Arsenal Resources	Address:	6031 Wallace Road Extension, Suite 300	APR 1 1 2018
Telephone:	724-940-1224		Wexford, PA 15090	W Generiment of
Email:	cflanagan@arsenalresources.com	Facsimile:	304-848-9134	Environmental Protection

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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 <u>depprivacyofficer@wv.gov</u>.

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### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

# **Division of Highways**

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

June 12, 2018

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Gamelli Pad, Harrison County

Gamelli HSOG 201 Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permits #04-2018-0402 & 0403 for the subject site to ARSENAL Resources for access to the State Road for the well site located off of Harrison County 17 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.

Office of Oil and Gas

Very Truly Yours,

WV Department of Environmental Protection

Dary K. Clayton

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

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

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

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