

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

Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Wednesday, November 15, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

ARSENAL RESOURCES LLC 6031 WALLACE ROAD EXTENSION SUITE 300

WEXFORD, PA 15090

Re: Permit approval for PRITT SOUTH 214 47-033-05910-00-00

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.

Chief

Operator's Well Number: PRITT SOUTH 214 Farm Name: IRA & LAURA PRITT U.S. WELL NUMBER: 47-033-05910-00-00 Horizontal 6A / New Drill Date Issued: 11/15/2017

Promoting a healthy environment.

James A. Martin

API Number: <u>33-05910</u>

# **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: <u>33-05910</u>

# **PERMIT CONDITIONS**

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

API NO. 47-033 -\_\_\_\_

OPERATOR WELL NO. Pritt South 214 Well Pad Name: Pritt South

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

1) Well Operat	or: Arsena	I Resources		494519412	Harrison	Simpson	Brownton
				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number	Pritt South	214	Well Pad	Name: Pritt	South	
3) Farm Name/	Surface Own	her: Ira and	Laura Pri	tt Public Roa	d Access: Co	unty Route	17
4) Elevation, cu	irrent ground	1: 1,351.9	0' Ele	vation, proposed	post-construct	ion: <u>1,35</u> 4.6	80'
5) Well Type	(a) Gas Other	X	Oil	Unde	erground Stora	ge	
	(b)If Gas	Shallow	x	Deep		<u> </u>	
	(-)	Horizontal	X				
6) Existing Pad	: Yes or No	No					
7) Proposed Ta	rget Formatio			pated Thickness an oft, 0.5 psi/ft Base of M			l) - 7899.0ft (TVD Toe)
8) Proposed To	tal Vertical I	Depth: 7,883	3 ft				
9) Formation at	Total Vertic	al Depth: N	larcellus	shale			
10) Proposed To	otal Measure	d Depth: 1	5,162 ft				
11) Proposed H	orizontal Leg	g Length: _6	6,851.92 (	ft			
12) Approximat	te Fresh Wat	er Strata Dep	ths:	400 ft			······
13) Method to I	Determine Fr	esh Water De	pths:	ecting wells reported water de	pitus (033-00660, 033-0)	0960, 033-00960, 03	<b>3-00978, 033-00980, 033-03262)</b>
14) Approximat	te Saltwater I	Depths: 140	0'				
15) Approximat	e Coal Seam	Depths: Bata	rsiown 463°, Brush	Creek 582', Upper Freeport 643', (	Lower Freeport 703', Upper	Kitanning 775', Middle	Kitanning 838', Lower Kittanning 851'
16) Approximat	e Depth to P	ossible Void	(coal min	e, karst, other): <u>N</u>	lone		
17) Does Propos directly overlyir				s Yes	No	X	
(a) If Yes, prov	vide Mine In	fo: Name:					
		Depth:					
		Seam:	<del></del>				
		Owner:					

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WW-6B (04/15)

18)

# CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	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#	450'	450'	CTS
Coal							
Intermediate	9.625"	New	J-55	40#	1500'	1500'	CTS
Production	5.5"	New	P-110	20#	15,162'	15,162'	TOC @ 1,350'MD
Tubing							
Liners							

SDW BIZH/ZO17

API NO. 47- 033

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OPERATOR WELL NO. Pritt South 214 Well Pad Name: Pritt South

TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	24"	36"			0	Type 1, 3% Calcium	1.20
Fresh Water	13.375"	17.5"	0.38"	2730	900	Class A, 3% CaCl2	1.20
Coal					0		
Intermediate	9.625"	12.25"	0.395"	3950psi	1500	Class A, 2% CaCl2	1.29
Production	5.5"	8.5-8.75	0.361"	12,640psi	9500	Type 1	1.64/1.32
Tubing					5000		
Liners					N/A		

# PACKERS

Kind:			
Sizes:			
Depths Set:			

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API NO. 47-033 -OPERATOR WELL NO. Pritt South 214

Well Pad Name: Pritt South

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

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and grout 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 ½" 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- ¼" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig with then continue to drill a 8- ¾" hole to a designed Pilot Hole Depth, log the well, and then set a cement kick-off plug from Pilot hole TD to designed kick-off point. Once the plug has cured, the plan is to then start drilling the curve and lateral section to the programmed total measured depth, run 5 ½" 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): 29.78

22) Area to be disturbed for well pad only, less access road (acres): 9.15

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  $5 \frac{1}{2}$ " – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,400'; there will be no centralizers from 1,400' to surface.

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

24" will be grouted from 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 Type 1 cement, & no greater than 3% calcium chloride. The 5-1/2" production string will be cemented back to 1,150' (+/- 200' above the casing shoe for the 9-5/8") with Type 1 or Class A cement retarder (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 a gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right-angle" set) during the plastic phase of the cement set-up.

### 25) Proposed borehole conditioning procedures:

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

\*Note: Attach additional sheets as needed.





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## Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near Arsenal Resources hydraulic fracturing in Harrison County, WV prior to hydraulic fracturing at the following Arsenal Resources wells on the Pritt South 214 Pad.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,900'TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Benson formation (approximately 4,600' TVD).

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

### 1. Communications with Conventional Operators.

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

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

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

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

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



### 2. Reporting

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

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WV Department of Environmental Protection



Click or tap to enter a date.

Alliance Petroleum Corporation Address State

RE: Click or tap here to enter text.

Dear Sir/Madam,

Arsenal Resources has developed a Marcellus pad Pritt South 201 Pad, located in Harrison County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,900' TVD) and existing conventional natural gas wells included in the attached well list for which you are believed to be the operator.

ARSENAL RESOURCES anticipates conducting hydraulic fracturing at the Pritt South 201 Pad during the Quarter of 2017. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our newly planned wells. Plats for each well on this pad are attached.

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

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

Please feel free to contact me at 724-940-1218 with any questions or comments. You may also contact the WV Office of Oil and Gas at 304-926-0499.

Sincerely,

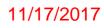
Kelly Davis Permitting Specialist Area of Review Report - Pritt South Pad, 214 Lateral, Harrison County, WV

Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
Bernard F Joseph 1	033-02184	Alliance Petroleum Corporation	Existing	39,258086	-80.188687	4549	Fifth, Speechley	NA
O Carl Morris 1	033-00976	Alliance Petroleum Corporation	Existing	39.248541	-80.184921	4375	Big Injun, Gantz, Benson	NA
Bernard F Joseph 3	033-03008	Alliance Petroleum Corporation	Existing	39.261569	-80.191488	4596	Big Injun, Fifty-foot, Bayard, Benson	NA

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047-033-05910

ARSE	INAL		Arsenal Resou Pritt South 2 Casing Desig	jn .	
Other Names:	N/A		Directional Plan #	2 QES County:	Harrison
Surface Location:	TBD			State:	West Virginia
Sottom Hole Location: Total Depth:	TBD 15,160 MD (ft)			AFE #: RKB:	27 API#: XX
	7,883 TVD			Ground Level:	1,354
ogs	Significant Formations (TVD)	Depth (ft) MD	Depth (ft) TVD	Hole Size	Casing and Mud Directional & Surveys Cement Drig /Csg Point
lone	Section 1		Drive Pipe		
lone		80	80	24" 94# H-40 STC 17 1/2" (PDC)	Vertical Floc Water
	Section 2		Floc	TOC	Cement:Type 1 489 Sacks w/ 30% Excess :: Surface (top off if needed) unent volumes are estimates
ossible BL after cement job		450	450	13 3/8" 54.5# J-55 STC	Vertical
lone	Section 3		Floc	12 1/4" (PDC)	Floc Water Cement:Type 1 678 Sacks w/ 50% Excess
				TOC: S	urface (top of if in eeded) ment volumes are estimates
ossible BL after cement job		1,500	1,500	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 1500 1500 7,300 7,309 15,199
				Bit Data 17-1/2" & 12 1/4" PDC 8- 3/4" (PDC) 8- 1/2" (PDC) Directional Data	From         To           80         1,500           1,500         8,309           8,309         15,150
			овм		
	Big Lime		1,536		
	1st Elk Siltstone		4,894		
	Tully Lime		7,494		
	Purcell (Limestone)		7,864	Cement: Type 1	OH = 2652 sacks
	Lower Marcellus		7,867	1.2 ft3/sack +10% Exs in All ce	TOC: 1,350 ft ment volumes are estimates
	15,160 MD 7883 TVD				5 1/2" 20# P-110 VAR
Revision	1		Note: Not drawn to s		Cement Dutside Casing

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API Number 47 - 033 Operator's Well No. Pritt South 214

#### STATE OF WEST VIRGINIA AND COMPACT OF DEPARTMENT OF ENVIRONMENTAL PROTECTION Enviro mutual Protect OFFICE OF OIL AND GAS

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Arsenal Resources	OP Code	494519412	
Watershed (HUC 10) Beards Run & Pigtail Run Quadrangl	e Brownton		
Do you anticipate using more than 5,000 bbls of water to complete the propose Will a pit be used? Yes No	d well work?	Yes 🗸	No
If so, please describe anticipated pit waste: Produced Water			
Will a synthetic liner be used in the pit? Yes $\checkmark$ No	If so, what ml.	.? 60 ml	
Proposed Disposal Method For Treated Pit Wastes:			SDW
Land Application Underground Injection (UIC Permit Number			5000
Reuse (at API Number Various			)
Off Site Disposal (Supply form WW-9 for disposal	location)		
Other (Explain			

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Verteat Treatwater Horizontal Synthetic of based mud

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

Additives to be used in drilling medium? Bentonite, Soap and Polymer sticks, Soda Ash, Sodium Bicarbonate, Defoamer, Base Oil, Emulsifiers, Lime, & Barite

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

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

-Landfill or offsite name/permit number? Advanced Disposal Services, Chestnut Valley Landfill

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

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

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

Company Official Signature	
Company Official (Typed Name) William Veige	
Company Official Title Designated Agent	
Subscribed and sworn before me this 29th day of August	20_17
KOON G Eddy	Notary Publicary PUBLIC OFFICIA
Seale ale 2018	Notary Public ARY PUBLIC OFFICIAL SEAL

18,2018

nher

My commission expires

Form	WW-9
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Arsenal Resources

### Operator's Well No. Pritt South 214

Proposed Revegetation Treatm	ent: Acres Disturbe	ed 29.78	Prevegetation pH 6	.8 average
Lime 4	Tons/acre or to	correct to pH 6.0-7.5		
Fertilizer type 10-20	-20			
Fertilizer amount 500	)	lbs/acre		RECEIVED Office of Oil and Gas
Mulch 2		Tons/acre		AUG 31 2017
		Seed Mixtures		VIV Department of Environmental Protecti
Tem	porary		Permanent	
Seed Type	lbs/acre		Seed Type	lbs/acre
Annual Rye	40	Swisher	Meadow Mix	100
Field Bromegrass	40			
Winter Rye	168			
Winter Wheat	180			

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.

			oon as reasonably p VV DEP E&S manua	
necessary.				
Title: 006 Insp	ector	Date: S/	24/2017	
Field Reviewed?	X )Yes (	) No		



# **SITE SAFETY PLAN**

# Pritt South #214 WELL PAD

911 Address:

3460 Green Valley Road

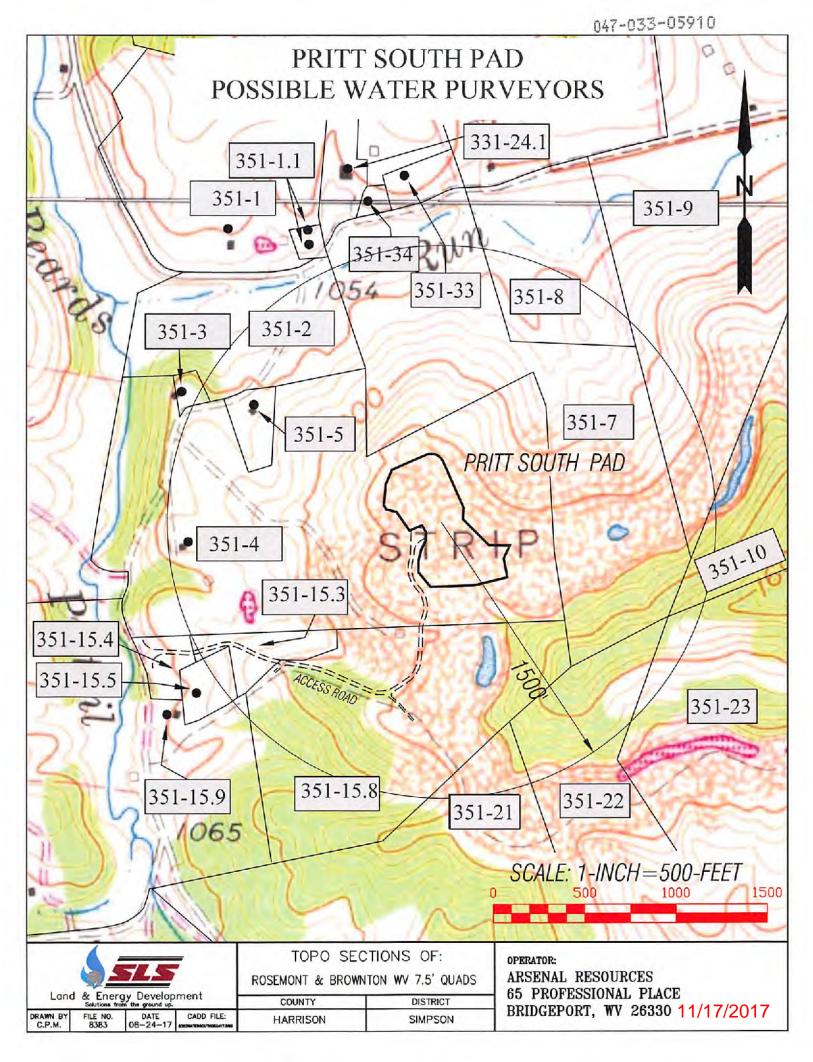
Bridgeport, WV 26330

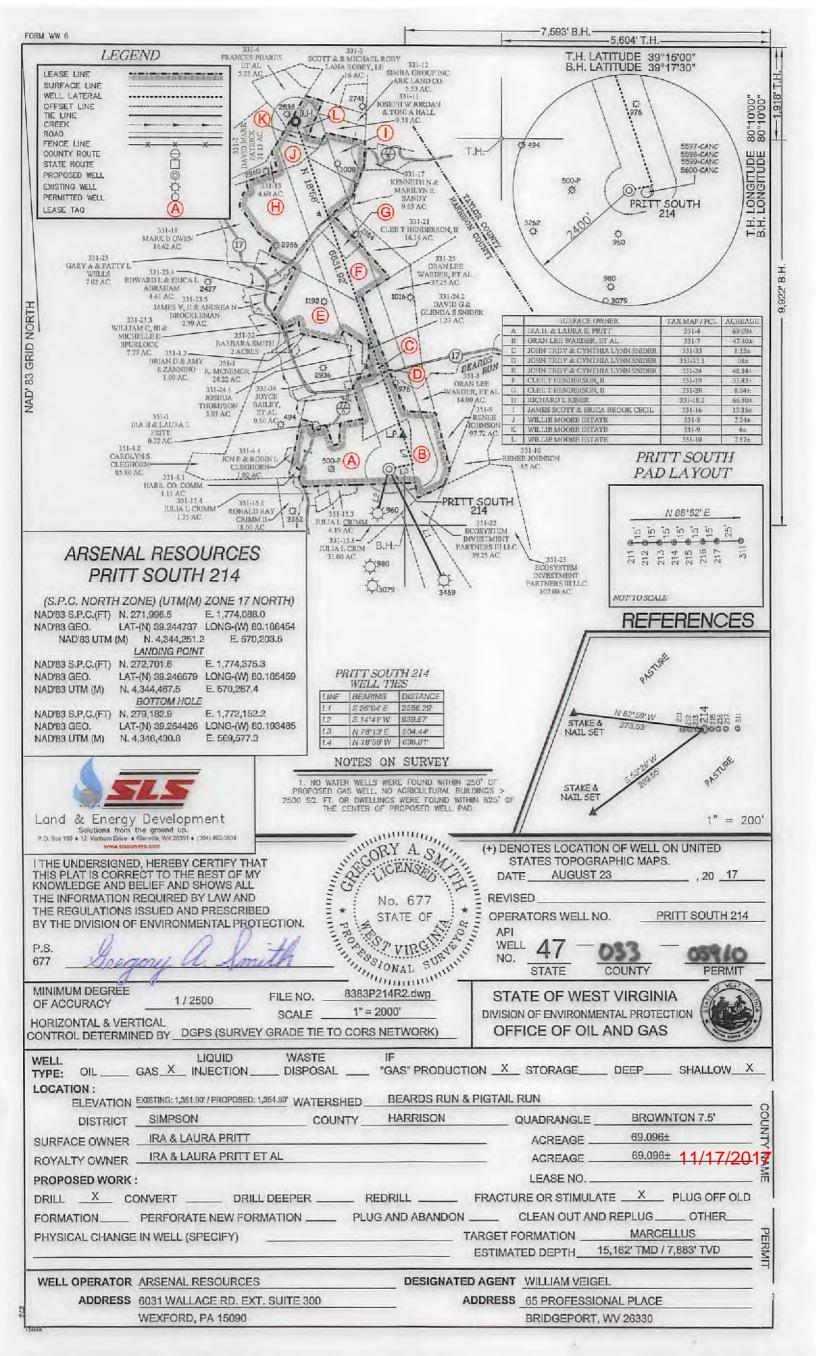
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WV Department of Environmental Protection

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WW-6A1 (5/13) Operator's Well No. Pritt South 214

### 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:

Grantor Lessor etc	Grantee Lessee etc.	Rovalty	Book/Page
	Grantor, Lessor, etc.	Grantor, Lessor, etc. Grantee, Lessee, etc.	Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty

\* See Attached

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

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

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

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

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

Page 1 of 10

11/17/2017

Letter beignation //umber         Grantor, Lessor, Assignor, etc.         Royalty         Book/Page           Designation on Plat         In Pritt and Laura E. Fritt, Hushand         Carrizo (Marcellus) LLC         Acriatio (Marcellus) LLC         1448 / 063           Lesse cooods2c (WVL03143.000)         Tarrizo (Marcellus) LLC         Acriatio (Marcellus) LLC         Acriatio (Marcellus) LLC         1460/1083           Carrizo (Marcellus) LLC         Carrizo (Marcellus) LLC         Rountaineer, LLC         Rountaineer, LLC         1460/1083           Carrizo (Marcellus) LLC         Carrizo (Marcellus) LLC         Rountaineer, LLC         1480/1083         1028/107           Rese coood364 (WVL00561.000)         Rivelfe; Morris, Fis wife; Marry Morris         River Ridge Energy, LLC         59/1263           R. Morris, Fis wife; Wallan T. Morris         River Ridge Energy, LLC         River Ridge Energy, LLC         59/1263           R. Morris, Fis wife; Wallan T. Morris         River Ridge Energy, LLC         1374/612         59/1263           R. Morris, Fis wife; Marry Morris         PCC Mountaineer, LLC         1440/364         59/1263           R. Morris, Fis wife; Marry Morris         PCC Mountaineer, LLC         59/1263         1440/364		At	Attachment to WW-6A1, Pritt South 214			
Carrizo ( Marcellus) LLC       15.00%         ACP II Marcellus LLC and Carrizo       15.00%         ACP II Marcellus LLC       15.00%         PDC Mountaineer, LLC       12.50%         Petroleum Development Corporation       12.50%         PDC Mountaineer, LLC       12.50%         Petroleum Development Corporation       12.50%         Petroleum Development Corporation       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%	Letter Designation/Number Designation on Plat		Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
ACP II Marcellus LLC and Carrizo (Marcellus) LLC       PDC Mountaineer, LLC         PDC Mountaineer, LLC       12.50%         Petroleum Development Corporation       12.50%         Petroleum Development Corporation       12.50%         PDC Mountaineer, LLC       12.50%         Petroleum Development Corporation       12.50%         Potroleum Development Corporation       12.50%         Potroleum Development Corporation       12.50%         Petroleum Development Corporation       12.50%         Potroleum Development Corporation       12.50%         Potroleum Development Corporation       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%	A [Lease 00006622 (WVL03143.000)]	Ira Pritt and Laura E. Pritt, Husband and Wife	Carrizo ( Marcellus) LLC	15.00%	1448 / 804 1579/26	92.06
PDC Mountaineer, LLCImage Energy, LLCImage Energy, LLCRiver Ridge Energy, LLC12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%Petroleum Development Corporation12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%Patroleum Development Corporation12.50%Patroleum Development Corporation12.50%Mar Key, LLC12.50%Mar Key, LLC12.50%Mar Key, LLC12.50%Mar Key, LLC12.50%Mar Key, LLC12.50%		Carrizo (Marcellus) LLC	ACP II Marcellus LLC and Carrizo (Marcellus) LLC		1460/1083	
River Ridge Energy, LLC       12.50%         PDC Mountaineer, LLC       12.50%         PDC Mountaineer, LLC       12.50%         River Ridge Energy, LLC       12.50%         Petroleum Development Corporation       12.50%         PDC Mountaineer, LLC       12.50%         PDC Mountaineer, LLC       12.50%         PDC Mountaineer, LLC       12.50%         River Ridge Energy, LLC       12.50%         PDC Mountaineer, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%		Carrizo (Marcellus) LLC and ACP II Marcellus LLC	PDC Mountaineer, LLC		1518/395	
Petroleum Development Corporation12.50%PDC Mountaineer, LLC12.50%River Ridge Energy, LLC12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%Petroleum Development Corporation12.50%Petroleum Development Corporation12.50%Mar Key, LLC12.50%Mar Key, LLC12.50% <trtr>Mar Key, LLC12.</trtr>		PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
Petroleum Development Corporation       12.50%         PDC Mountaineer, LLC       12.50%         River Ridge Energy, LLC       12.50%         Petroleum Development Corporation       12.50%         PDC Mountaineer, LLC       12.50%         PDC Mountaineer, LLC       12.50%         PDC Mountaineer, LLC       12.50%         River Ridge Energy, LLC       12.50%         Petroleum Development Corporation       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%	٥	O. Carl Morris and Rachel L. Morris, his wife; William T. Morris and Willa				
PDC Mountaineer, LLC       Ever Ridge Energy, LLC         River Ridge Energy, LLC       12.50%         PDC Mountaineer, LLC       12.50%         PDC Mountaineer, LLC       12.50%         PDC Mountaineer, LLC       12.50%         Petroleum Development Corporation       12.50%         Petroleum Development Corporation       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%	[Lease 00004364 (WVL00561.000)]	R. Morris, his wife; Mary Morris Warder and Willis E. Warder, her	Petroleum Development Corporation	12.50%	1018/107	122
PDC Mountaineer, LLC       Image Energy, LLC         River Ridge Energy, LLC       12.50%         Petroleum Development Corporation       12.50%         PDC Mountaineer, LLC       12.50%         Petroleum Development Corporation       12.50%         River Ridge Energy, LLC       12.50%         Petroleum Development Corporation       12.50%         Petroleum Development Corporation       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%		husband				
River Ridge Energy, LLC12.50%Petroleum Development Corporation12.50%PDC Mountaineer, LLC12.50%River Ridge Energy, LLC12.50%Petroleum Development Corporation12.50%PDC Mountaineer, LLC12.50%PDC Mountaineer, LLC12.50%Mar Key, LLC12.50%Mar Key, LLC12.50%Mar Key, LLC12.50%Mar Key, LLC12.50%		Petroleum Development Corporation	PDC Mountaineer, LLC		1474/612	
Petroleum Development Corporation       12.50%         PDC Mountaineer, LLC       12.50%         River Ridge Energy, LLC       12.50%         Petroleum Development Corporation       12.50%         PDC Mountaineer, LLC       12.50%         PDC Mountaineer, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%         Mar Key, LLC       12.50%		PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
Petroleum DevelopmentPDC Mountaineer, LLCPDC Mountaineer, LLCCorporationCorporationRiver Ridge Energy, LLCPDC Mountaineer, LLCRiver Ridge Energy, LLC12.50%Bernard F. Joseph and FrennaPetroleum Development Corporation12.50%J. Joseph, his wifePDC Mountaineer, LLC12.50%Mark Rodney Nuzum, a married manMark Rodney, LLC12.50%Mark Rodney Nuzum, a married manMar Key, LLC12.50%Janielle Elizabeth Williams, a singleMar Key, LLC12.50%Janielle Elizabeth Williams, a singleMar Key, LLC12.50%	C, D, E [Lease 00004031 (WVL00407.000)]	Frances M. Morris, single, and Lummie B. Snyder, a married woman		12.50%	1058/166	58
PDC Mountaineer, LLCRiver Ridge Energy, LLC12.50%Bernard F. Joseph and Frenna J. Joseph, his wifePetroleum Development Corporation12.50%J. Joseph, his wifePDC Mountaineer, LLC12.50%Petroleum Development CorporationPDC Mountaineer, LLC12.50%Mark Rodney Nuzum, a married man dealing in his sole and separate propertyMar Key, LLC12.50%Janielle Elizabeth Williams, a single womanMar Key, LLC12.50%		Petroleum Development Corporation	PDC Mountaineer, LLC		1440/364	
Bernard F. Joseph and Frenna       Petroleum Development Corporation       12.50%         J. Joseph, his wife       Petroleum Development       12.50%         Petroleum Development       PDC Mountaineer, LLC       12.50%         Mark Rodney Nuzum, a married man       Mar Key, LLC       12.50%         Mark Rodney Nuzum, a single       Mar Key, LLC       12.50%         Janielle Elizabeth Williams, a single       Mar Key, LLC       12.50%		PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	-
Petroleum Development     PDC Mountaineer, LLC       Corporation     PDC Mountaineer, LLC       PDC Mountaineer, LLC     River Ridge Energy, LLC       Mark Rodney Nuzum, a married man     Mar Key, LLC       dealing in his sole and separate     Mar Key, LLC       Janielle Elizabeth Williams, a single     Mar Key, LLC	F, G [Lease 00004184 (WVL00469.001)]	Bernard F. Joseph and Frenna J. Joseph, his wife	Petroleum Development Corporation	12.50%	1088/890	157
PDC Mountaineer, LLC     River Ridge Energy, LLC     12.50%       Mark Rodney Nuzum, a married man dealing in his sole and separate     Mar Key, LLC     12.50%       Janielle Elizabeth Williams, a single woman     Mar Key, LLC     12.50%		Petroleum Development Corporation	PDC Mountaineer, LLC		1440/364	
Mark Rodney Nuzum, a married man       Mar Key, LLC       12.50%         dealing in his sole and separate       Mar Key, LLC       12.50%         property       Mar Key, LLC       12.50%         Janielle Elizabeth Williams, a single       Mar Key, LLC       12.50%		PDC Mountaineer, LLC			59/1263	
Janielle Elizabeth Williams, a single Mar Key, LLC 12.50% to man		Mark Rodney Nuzum, a married man dealing in his sole and separate property		12.50%	1597/404	37.78
	Н [Lease 00007845]	Janielle Elizabeth Williams, a single woman	Mar Key, LLC	12.50%	1599/318	37.78

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				047-033-05910	
H [Lease 00007846]	Terry Lewis Nuzum, a single man	Mar Key, LLC	12.50%	1598/1179	37.78
ا [Lease 00004034 (WVL00410.001)]	Eileen Oldroyd and Arthur D. Oldroyd, her husband, and Bernice E. Casey, widow	West Virginia Energies, Inc.	12.50%	1130/523	17.35
	West Virginia Energies, Inc.	Petroleum Development Corporation		1138/155	
	Petroleum Development Corporation	PDC Mountaineer, LLC		1440/364	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
ا [Lease 00004048 (WVL00410.015)]	Bernard F. Joseph and Frenna J. Joseph, his wife	Petroleum Development Corporation	12.50%	1135/107	17.35
	Petroleum Development Corporation	PDC Mountaineer, LLC		1440/364	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
J, K, L [Lease 00003783 (WVL00265.000)]	Goldie Moore, widow	Petroleum Development Corporation	12.50%	1085/439	30
	Petroleum Development Corporation	PDC Mountaineer, LLC		1440/364	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	

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# West Virginia Secretary of State — Online Data Services

# **Business and Licensing**

Online Data Services Help

# **Business Organization Detail**

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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			

	2111 - Mining, Quarrying, Oil &		
Business Purpose	Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction	Capital Stock	
Charter County		Control Number	99Q1F
Charter State	wv	Excess Acres	
At Will Term	Α	Member Managed	MBR
t Will Term (ears		Par Value	

# WV SOS - Business and Licensing - Corporations - Online Data Services

Page 2 of 3

Authorized Shares

		EEOE TO, Oca
Addresses		AUG 21 2017
Туре	Address	NOV Der orten studion Environation of a couldion
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	
/pe	Address	

Officers		
Туре	Name/Address	
Member	MOUNTAINEER KEYSTONE ENERGY LLC 6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090	
Organizer	PAUL M HERZING 560 EPSILON DR. PITTSBURGH, PA, 15238 USA	
Гуре	Name/Address	

Annual Reports		
Date filed	44/47/004	7
	<u> </u>	1

# WV SOS - Business and Licensing - Corporations - Online Data Services

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

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

Thursday, February 23, 2017 - 9:08 AM

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

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

[Signature Page Follows]

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11/17/2017

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 Name: Joel E. Symonds

Title: Vice President - Land

**RIVER RIDGE ENERGY, LLC** 

By: Name: Joel E. Symonds

Title: Vice President - Land

**RIVER RIDGE HOLDINGS, LLC** 

By:

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

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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 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
- 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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# 11/17/2017

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: Lokas Kon Title: CEO

PDC MOUNTAINEER, LLC By: Name Title: Caro

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PDC MOUNTAINEER HOLDINGS, LLC

By: Name: EL Title: CEO

Offica U. C.I. L. J. Gas

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People Powered. Asset Strong.



August 24, 2017

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; Pritt South Pad; 211HM - 217HM

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 well[s]. The findings of the title examination show that some of the roadways crossed by the proposed well[s] 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 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,

Brandon

Coty Brandon Senior Title Attorney

Office of Oll and Gas

AUG 3 1 2017

VAI Department of Environmental Protocion

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



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

Date of Notice Certification: 8-29-17

API No. 47- 033	4
<b>Operator's Well No.</b>	Pritt South 214
Well Pad Name: Pr	itt South

#### 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	asting:	570,203.5	
County:	Harrison	UTMINAD 83 No	orthing:	4,344,251.2	
District:	Simpson	Public Road Access	:	County Route 17	
Quadrangle:	Brownton	Generally used farm	name:	Ira Pritt	
Watershed:	Beards Run & Pigtail 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 Op that the Operator has properly served the required *PLEASE CHECK ALL THAT APPLY	erator has attached proof to this Notice Certification d parties with the following:	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
$\Box$ 2. NOTICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVEY WAS CONDUCTED	RECEIVED
3. NOTICE OF INTENT TO DRILL or	□ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION	ORDER CALL 229	RECEIVED
5. PUBLIC NOTICE	AUG 3 1 2017	RECEIVED
6. NOTICE OF APPLICATION	Environment reason	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.

### Certification of Notice is hereby given:

THEREFORE, I <u>William Veigel</u>, 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 hyprisonment.

By:	Arsenal Resources William Veigel	WS US	Address:	6031 Wallace Road Extension, Suite 300 Wexford, PA 15090
Its:	Designated Agent	1	Facsimile:	304-848-9134
Telephone:	724-940-1218	1	Email:	keddy@arsenalresources.com
	NOTARY PUECE OFFICIAL SEAL	0.1		orn before me this 29th day of August 2017

### 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.

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(9-13)	

API NO. 47- 033 -OPERATOR WELL NO. Pritt South 214 Well Pad Name: Pritt South

### 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: 8-29-17	Date Permit Application	Filed: 3-30-17
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	$\checkmark$	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.

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Ira H. Pritt & Laura E. Pritt	Name: See Attached List
Address: 3444 Green Valley Road	Address:
Bridgeport, WV 26330	
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance	
Name: See Altached List	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attached List
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name: Oran Lee Warder	Address:
Address: 2381 Silverado Drive	
Weatherford, TX 76087	*Please attach additional forms if necessary

Office of Oil and Gas

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WW-6A (8-13)

OPERATOR WELL NO. Pritt South 214

API NO. 47- 033

Well Pad Name: Pritt South

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#### Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

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

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13) API NO. 47-033 -OPERATOR WELL NO. Pritt South 214 Well Pad Name: Pritt South

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

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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 \_\_\_\_

OPERATOR WELL NO. Pritt South 214 Well Pad Name: Pritt South

#### 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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WW-6A	API NO. 47- 033 -
(8-13)	OPERATOR WELL NO. Pritt South 214
	Well Pad Name: Pritt South
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Notice is hereby given by: /, //////////////////////////////////	
Notice is hereby given by: Well Operator: Arsenal Resources	Address: 6031 Wallace Road Extension, Suite 300
Notice is hereby given by: Well Operator: Arsenal Resources Telephone: 724-940-1218	Address: 6031 Wallace Road Extension, Suite 300 Wexford, PA 15090

### **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>.

1 min	NOTARY PUBLIC OFFICIAL SEAL
178 8	STATE OF WEST VIRGINIA
(日本教室的	KELLY A. EDDY
化杨花油	FT 2 BOX 225A
	JANE LEW, WV 26378
5	MY COMMISSION EXPIRES SEPT. 18, 2018
Lann	~~~~~~

Subscribed and sworn before me	this 29th day of Aug	just 2017.
Kelly a. Eo	ldy	Notary Public
My Commission Expires 50	eptember 18,	2018

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# Arsenal Resources Pritt South Well Pad WW-6A Notice of Application (Attachment)

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

Ira H. Pritt & Laura E. Pritt (Drill Site & Access Road) 3444 Green Valley Road Bridgeport, WV 26330

Della R. Riffle (Access Road) / 11 Crim Lane Bridgeport, WV 26330

Julia Crim (Access Road) 75 Crim Lane Bridgeport, WV 26330

Sandy Crim (Access Road) 75 Crim Lane Bridgeport, WV 26330

# **Coal Owner, Operator or Lessee:**

Heirs of Virginia A. Tetrick Estate d/b/a, Tetrick Mineral Properties, J.V. 92 16<sup>th</sup> Street Wheeling, WV 26003

I.L. Morris P.O. Box 397 Glenville, WV 26351

Edith Gans Burns 264 South Lake Road Columbia, SC 29223

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### **Coal Owner, Operator or Lessee, continued:**

Rebecca Turner, William & Robert Snyder Title Building, Suite 400 110 Saint Paul Street Baltimore, MD 21202

Mike Ross, Inc. P.O. Box 219 Coalton, WV 26257

Spartan Exploration Company P.O. Box 316 Mt. Pleasant, MI 48858

Ryan C. Radtka 205 Mystic Drive Morgantown, WV 26508

Helen M. Burton ✓ P.O. Box 8179 Nutter Fort, WV 26301

CoalQuest Development, LLC / 100 Tygart Drive Grafton, WV 26354

### Water Purveyors:

Kevin McNemar 1048 Indiana Ave. Stonewood, WV 26301

Lucas Johnson etal C/O Thomas Johnson RR 4 Box 560 Bridgeport, WV 26330

Ira & Laura Pritt 3444 Green Valley Road Bridgeport, WV 26330



2 | Page 11/17/2017

## Water Purveyors, continued:

Oran Warder etal 2381 Silverado Drive Weatherford, TX 76087

Renee Johnson 511 Beards Run Road Bridgeport, WV 26330

Ronald & Jody Crim 2825 Green Valley Road Bridgeport, WV 26330

Julia Crim 75 Crim Lane Bridgeport, WV 26330

Sandy Crim 75 Crim Lane Bridgeport, WV 26330

Della R. Riffle , 11 Crim Lane Bridgeport, WV 26330

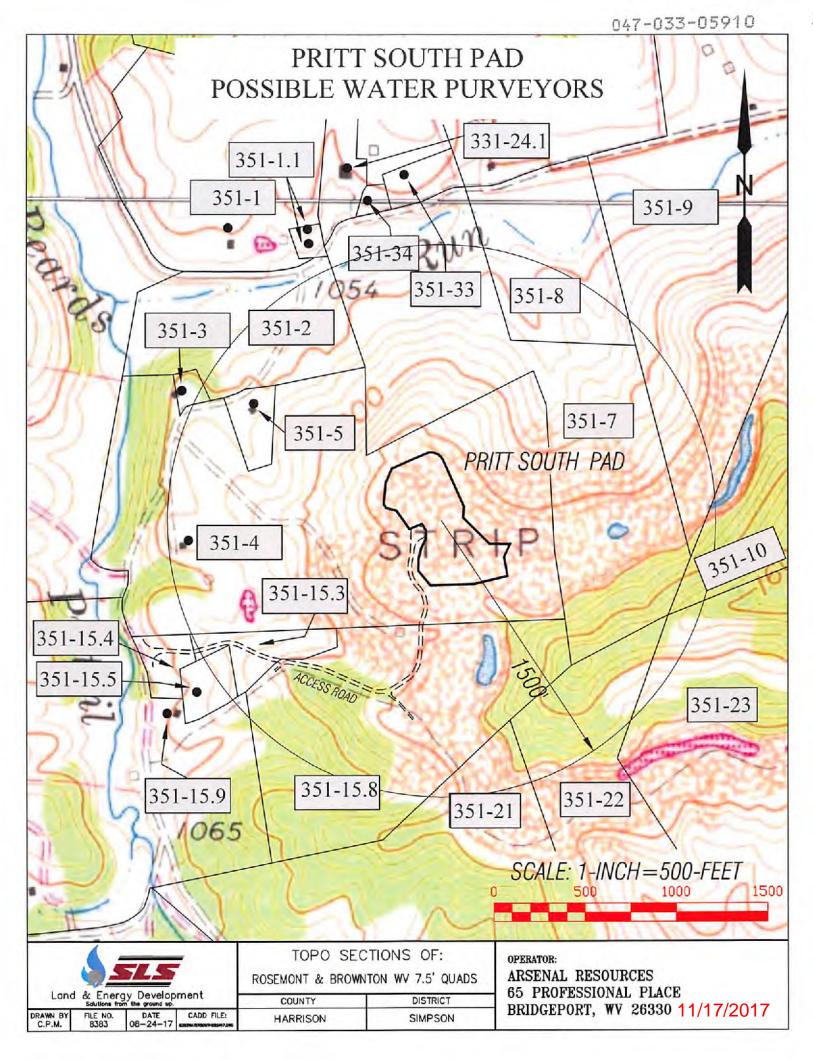
Ecosystem Investment Partners III, LLC 2002 Clipper Park Road, Suite 201 Baltimore, MD 21211

John & Cynthia Snider 95 Beards Run Road Bridgeport, WV 26330

Joyce Bailey etal PO Box 4 Rosemont, WV 26424

Joshua Thompson 143 Beards Run Road Bridgeport, WV 26330

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#### Possible Water Purveyors within 1500' of Pritt South Pad

351-1

Kevin McNemar 3658 Green Valley Road Bridgeport, WV 26330-6884

## 351-1.1

Lucas Johnson etal C/O Debra Ann Goodwin 104 Rose Ave. Clarksburg, WV 26301

#### 351-2

Ira & Laura Pritt 3444 Green Valley Road Bridgeport, WV 26330

#### 351-3

Ira & Laura Pritt 3444 Green Valley Road Bridgeport, WV 26330

#### 351-4

Ira & Laura Pritt 3444 Green Valley Road Bridgeport, WV 26330

#### 351-5

Ira & Laura Pritt 3444 Green Valley Road Bridgeport, WV 26330

#### 351-7

Oran Warder etal 2381 Silverado Drive Weatherford, TX 76087

#### 351-8

Oran Warder etal 2381 Silverado Drive Weatherford, TX 76087

## 351-9

Renee Johnson 511 Beards Run Road Bridgeport, WV 26330

#### 351-10

Renee Johnson 511 Beards Run Road Bridgeport, WV 26330

#### 351-15

Ronald & Jody Crim 2825 Green Valley Rd. Bridgeport, WV 26330 RECENTED Office of Olivand Gas

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P.O. Box 150 12 Vanhorn Drive Glenville, WV 26351 Tel: (304) 462-5634 Fax: (304) 462-5656 56065 Dilles Bottom Road Shadyside, OH 43947 Tel: (470) 671-9911

11/17/2017



351-15.3 Julia Crim 75 Crim Lane Bridgeport, WV 26330

#### 351-15.4

Julia Crim 75 Crim Lane Bridgeport, WV 26330

#### 351-15.5

Sandy Crim 75 Crim Lane Bridgeport, WV 26330

#### 351-15.8

Julia Crim 75 Crim Lane Bridgeport, WV 26330

#### 351-15.9

Della R. Riffle 11 Crim Lane Bridgeport, WV 26330

#### 351-21

Ecosystem Investment Partners III, LLC 2002 Clipper Park Road, Suite 201 Baltimore, MD 21211

#### 351-22

Ecosystem Investment Partners III, LLC 2002 Clipper Park Road, Suite 201 Baltimore, MD 21211

#### 351-23

Ecosystem Investment Partners III, LLC 2002 Clipper Park Road, Suite 201 Baltimore, MD 21211

#### 351-33

John & Cynthia Snider 95 Beards Run Road Bridgeport, WV 26330

#### 351-34

Wilma Suter C/O Joyce E. Bailey etal P.O. Box 4 Rosemont, WV 26424 RECEIVED Office of Oil and Gas

AUG 31 2017

WW Department of Environmental Protoction







<u>331-24.1</u> Joshua Thompson 143 Beards Run Road Bridgeport, WV 26330

> RECEIVED Office of Oil and Gas

AUG 31 2017

WW Department of Environmental Frotoction



56065 Dilles Bottom Road Shadyside, OH 43947 Tel: (470) 671-9911

11/17/2017

## 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: 8-29-17 Date Permit Application Filed: 8-30-17

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

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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: Ira H. Pritt & Laura E. Pritt	Name:
Address: 3444 Green Valley Road	Address:
Bridgeport, WV 26330	
	-

#### 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	UTM NAD 83 Easting	: 570,203.5	
County:	Harrison	Northin	g: 4,344,251.2	
District:	Simpson	Public Road Access:	County Route 17	
Quadrangle:	Brownton	Generally used farm nam	e: Ira Pritt	
Watershed:	Beards Run & Pigtail 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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

#### Notice is hereby given by:

Well Operator:	Arsenal Resources	Authorized Representative:	William Veigel
Address:	6031 Wallace Road Extension, Suite 300	Address:	65 Professional Place, Suite 200
Wexford, PA 15090		Bridgeport, WV 26330	
Telephone:	724-940-1218	Telephone:	724-940-1218
Email:	keddy@arsenalresources.com	Email:	keddy@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>.

## 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: 3-29-17 Date Permit Application Filed: 3-30-17

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

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: Ira H. Pritt & Laura E. Pritt	Name:	/
Address: 3444 Green Valley Road	Address:	/
Bridgeport, WV 26330		

#### 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
County:	Harrison
District:	Simpson
Quadrangle:	Brownton
Watershed:	Beards Run & Pigtail Run

UTM NAD 83 Easting: Northing Public Road Access:

Generally used farm name

1	et of land as follows:	
	570,203.5	
	4,344,251.2	
	County Route 17	
	Ira Pritt	

#### 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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	Arsenal Resources	Address:	6031 Wallace Road Extension, Suite 300	
Telephone:	724-940-1218		Wexford, PA 15090	
Email:	keddy@arsenalresources.com	Facsimile:	304-848-9134	

#### Oil and Gas Privacy Notice:

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



047-033-05910

WW-6AW (1-12)

API NO. 47- 077 OPERATOR WELL NO. See Attached Well Pad Name: Pritt South

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

#### Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### **Comment and Waiver Provisions**

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

## VOLUNTARY STATEMENT OF NO OBJECTION

I, Mike Ross \_\_\_\_\_\_, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	See Attached	
County:	Harrison	UTM NAD 85	Northing:	See Attached	
District:	Simpson	Public Road Acces	SS:	County Route 17	
Quadrangle:	Brownton	Generally used far	m name:	Ira Pritt	
Watershed:	Beards Run & Pigtail Run				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
□ SURFACE OWNER	Signature:
SURFACE OWNER (Road and/or Other Disturbance)	Print Name: RECEIVED
□ SURFACE OWNER (Impoundments/Pits)	Office of Office
COAL OWNER OR LESSEE	Company: TIME A CORPORATION, ETC.P 18 2017
COAL OPERATOR	By: WV Department of Its: Finite Protection
WATER PURVEYOR	Signature: Artike Nort
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:

#### **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@wy.gov.

WW-6AW (1-12)

API NO. 47-077 OPERATOR WELL NO. See Attached Well Pad Name: Pritt South

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

#### Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### **Comment and Waiver Provisions**

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

## VOLUNTARY STATEMENT OF NO OBJECTION

I, Joyce Balley etal Wilma Suter \_\_\_\_\_, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	See Attached	
County:	Harrison	UIM NAD 83	Northing:	See Attached	
District:	Simpson	Public Road Acc	cess:	County Route 17	
Quadrangle:	Brownton	Generally used f	farm name:	ka Priti	
Watershed:	Beards Run & Pigtell Run			The second se	

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
□ SURFACE OWNER	Signature: rologe Lailet
SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Dice Bailey
SURFACE OWNER (Impoundments/Pits)	
COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC.
COAL OPERATOR	By:
WATER PURVEYOR	Signature: Sauce Bailer and Gas
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: 9/5/17 5EP 1 8 2017
Oil and Gas Privacy Notice: The Office of Oil and Gas processes your personal information, such as n	Environmental Protect

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>.



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## **Division of Highways**

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

Jim Justice Governor

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

October 31, 2017

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 Ira Pritt Well Pad, Harrison County Pritt South 214

Dear Mr. Martin,

This well site will be accessed from a Permit #04-2015-0617 transferred to Arsenal Resources for access to the State Road for a well site located off of Harrison County Route 77/6 SLS.

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

Very Truly Yours,

Day K. Claytow

Gary K. Clayton, P.E. Regional Maintenance Engineer

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

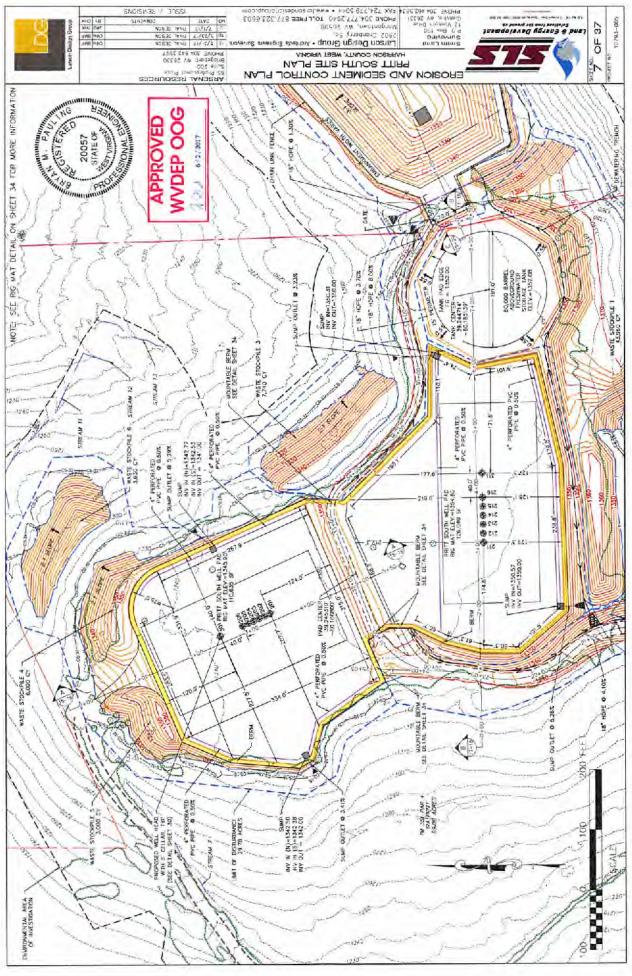
Well Name # Pritt South 214						
FRACTURING ADDITIVES						
	PURPOSE TRADE NAME CAS #					
Additive #1:	Friction Reducer	WFRA-405	Proprietary			
Additive #2:	Scale Inhibitor	SI-1000	7440-21-3			
Additive #3:	Biocide	BIOCLEAR 2000	25314-61-8			
Additive #4:	Gelling Agent	LGC-15	9000-30-0			
Additive #5:	Corrosion Inhibitor	AI-300	111-76-2			
Additive #6:	Gel Breaker	AP-One	7727-54-0			
Additive #7:	Acid	HCI - 7.5%	7647-01-0			



Office C. S. L. & Cas

8	Lanson Design Crears Current Bus Current Bus Current Bus Crears C	RESOURCES	22'8902 23'8902 10 23'73 24'73'73'73 24'73'73'73 24'73'73'73 24'73'73'73 24'73'73'73'73'73'73'73'73'73'73'73'73'73'	PLET STEET WEBT VROMA WEBT VROMA WEBT VROMA Steed Stee		d <b>_</b>	аналана на	SAFET NO. 1 OF HUALET NO.
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PRITT SOUTH SITE PLAN ABSENAL RESOLIDCES	(PROPOSED WELLS NO. 201, 202, 203, 204, 205, 206, 301, 211, 212, 213, 214, 215, 216, & 311) STUATE ON THE WATERS OF BEARDS RUN AND PIGTAL RUN IN SIMPSON DISTRICT, HARRISON COUNTY, WEST VIRGINIA				SCALE: 1" - 2000' BROWNTON QUADRANGLE WEST VRONGLE	MISS ULITY of West Virginia MISS ULITY of West Virginia Near Virginia State Low (Section XV, Chopter 24-C) Requires that you call two business days before you dig in the state of West Virginia. TTS THE LAWI	APPROVED WVDEP OOG	TET OF THE WELL PAD LOD. WEDL PAD AND LOD. WEDL PAD AND LOD. 250 FEET OF THE WELL PAD AND LOD. 250 FEET OF THE WELL(S) BEING DRILLED. 8 OF THE WELL PAD. 8 OF THE WELL PAD.
PROJECT INFORMATION	15, 15.3, 15.5	TM 351 PAR 4 TOTAL PROFERT AREA: 69.06 AC TOTAL DISTURED AREA: 14.57 AC CRAN WARDER CRAN WARDER TM 351 PROFERT AREA: 47.40 AC TOTAL PROFERTY AREA: 47.40 AC SUITE 200 TOTAL DISTURBED AREA: 5.49 AC BIRDGEPORT W 25330	a na	SANDY CRIM TM 351 PAR 15.5 TOTAL PROPERTY AREA: 2.05 AC SURVEYOR TOTAL DISTURBED AREA: 0.05 AC SWITH LAND SURVEYING, INC. 12 VANHORN DRIVE	TIND	2-3 CEVERAL NOTES 4 OVERAL PLAN SHELT INDEX 5-B STE LAYOUT 9 ACCESS ROAD PROFILE 10-14 ACCESS ROAD PROFILE 10-14 ACCESS ROAD CROSS SECTIONS 10-14 ACCESS ROAD CROSS SECTIO		1. THORE ARE NO WELLANDS WINAN 100 FEET OF THE WILL PAD LOD 1. THORE ARE NO WELLANDS WINAN 100 FEET OF THE WILL PAD LOD 2. THORE ARE NO PARENNAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. 4. THORE ARE NO ADDIADATER MITAKE OR PUBLIC WITRS SUPPLY FACULTIES WITHIN 1000 FEET OF THE WELL PAD AND LOD. 5. THORE ARE NO CONTINUALIZE MITAKE OR PUBLIC WILLS SUPPLY FACULTIES WITHIN 1000 FEET OF THE WELL PAD AND LOD. 5. THORE ARE NO CONTINUALIZE MITAKE OR PUBLIC WILLS SUPPLY FACULTIES WITHIN 1000 FEET OF THE WELL PAD AND LOD. 5. THORE ARE NO CONTINUALIZE MITAKE OR PUBLIC WILLS SUPPLY FACULTIES WITHIN 1000 FEET OF THE WELL PAD. 5. THORE ARE NO CONTINUES FUNCTIONES WITHIN 625 FEET OF THE CENTRE OF THE WELL PAD. 7. THORE ARE NO ADDIADATER MILLINGS LINGTICARET MATH 525 OFFET OF THE CENTRE OF THE WELL PAD.

11/17/2017



11/17/2017

047-033-05910



West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

DEP Offic	e Use only			
Date Received by Oil & Gas:	00		17	1
Assigned Impoundment ID #: D33WPA 00094				

## Permit Associated Impoundment / Pit Registration

**Instruction:** This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An **associated impoundment or pit** means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

## Section 1 – Operator Information

Operator Name:	Arsenal Resources				
Operator ID:	494519412				
Address: Street	65 Professional Place Suite 200				
City:	Bridgeport	State:	WV	Zip:	26330
Contact Name:	Larry "Eddie" Carder	Cor	ntact Title:	Regulatory Af	fairs Manager
Contact Phone:	304-629-6309	Cont	act Email:	ecarder@arser	nalresources.com

## Section 2 - Engineering / Design Contractor Information

Company Name:		arson Design Grou	p
Address: Street	12 Vanhorn Dr.		
City:	Glenville	State: WV	Zip: 26351
Contact Name:	Chris Moyers	Contact Title:	Sr. Design Coordinator
Contact Phone:	304-462-5634	Contact Email:	cmoyers@slssurveys.com
ertifying Professional I			
	Registration Number: 20057		

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Office of Oil and Gas

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Section	3 -	Impoundment /	Pit	Information
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Section 3 - Impoundment / Pit Information
Type of Structure. Check one of two choices below:
Freshwater Impoundment SWaste Pit
Note: Any waste in a pit will make it a waste pit.
Name of Structure (Company Name :) Pritt South Associated Pit
County: Harrison District: Simpson
USGS 7.5' Quad Map Name: Brownton
Farm Name: Pritt
Pad Name: Pritt South Pad
Surface Owner Name: Oran Warder & Ira Pritt
Physical Description of Location: The Pritt South Associated Pit is located the east side of Harrison County Route 77/6 near the ridge. With the access road entrance being 0.28 miles +/- north of the junction of County Routes 77/6 & 23/4.
(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)
Distance (Drainage Distance) to nearest perennial stream: 1400'+/-
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))         Latitude:       39.245265         Longitude (Use negative sign):       -80.183541         UTM Coordinates :       570454       E       4344312       N         Access Road Coordinates (junction of state highway access)       Longitude (Use negative sign):       -80.192459
UTM Coordinates : 569687 E 4344085 N
Approximate Dimensions         Length:       612' +/-         Width:       200' +/-         Note: If irregularly shaped, give approximate dimensions of long axis.
Total Capacity – Provide all units of measure below:
Barrels: 387,574 Gallons: 16,278,095 Acre-Feet: 49.96
Capacity with 2' Freeboad – Provide all units of measure below:         Barrels:       340,964         Gallons:       14,320,480         Acre-Feet:       43.95
Incised volume:
Barrels: 39,572 Gallons: 1,662,011 Acre-Feet: 5.10
Net impounded volume: (Total volume less incised volume.)
Barrels: 348,002 Gallons: 14,616,084 Acre-Feet: 44.86
Anticipated Construction Start Date (estimation, non-binding): June 2017 Note: No construction may begin on <b>Associoated</b> impoundment until WVDEP issues the drilling permit. At least 7 calendar days prior to confirmed construction start date, notify the Office of Oil & Gas, and the local Oil and Gas inspector of construction start date. Use form IMP-2, "Notification of Impoundment / Pit Construction."



AUG 3 1 2017 Environment Folgeton

**Section 4 - Associated Well Numbers and API Numbers.** List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) – If issued:
See Attached	

## Section 5 - Required Information Checklist To Register Permit Associated

Impoundments or Pits. Include the following information and plans with application.

- Engineered Construction Plans, certified by WV Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- E Reclamation Plan, certified by WV Registered P.E.

## Section 6 – Dam Standard Qualifying Evaluation

The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas. The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

## Section 7 – Comments – Provide any additional comments concerning this project



## Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

Name: Brunn Parling	
Title: Dieschan	
Signature:	
Taken, subscribed and sworn to before me this, 10th Day of May Notary Public: Juden a. Campbell	207
My commission expires. 4/18/21	
Notary Seal: COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Kristen Ann Campbell, Notary Public Armstrong Twp., Lycoming County	EPOFIVED Office of DV and Gas
My Commission Expires April 18, 2021 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES	AUG 31 2017
Section 9. Submittal Instructions	VIV Demetment of Environments' Protoction
Submit original paper copy of application to: West Virginia Department of Environmental Protection Office of Oil and Gas Impoundment Registration 601 57 <sup>th</sup> Street, SE Charleston WW 25304	
Email PDF file format of this application and all related engineering Plans to : <u>Depimpoundments@wv.gov</u>	

IMP 1A - Section 4 - Associated	Well Numbers and API Numbers
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Well Numbers

Pritt 201

- Pritt 202
- Pritt 203
- Pritt 204
- Pritt 205
- Pritt 206
- Pritt 207
- Pritt 301
- Pritt 211
- Pritt 212
- Pritt 213
- Pritt 214
- Pritt 215
- Pritt 216

Pritt 217

Pritt 311

**API Numbers** 

Not Yet Assigned by the WV DEP

REDENCED Office of On and Gas

AUG 21 2017

VALDepartment of Environment at Protection

11/17/2017