

### 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 217

47-033-05912-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: PRITT SOUTH 217 Farm Name: IRA & LAURA PRITT ET AL U.S. WELL NUMBER: 47-033-05912-00-00

Horizontal 6A / New Drill

Date Issued: 11/15/2017

Promoting a healthy environment.

API Number: 33-05912

# **PERMIT CONDITIONS**

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

# **CONDITIONS**

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

API Number: 33-05912

# **PERMIT CONDITIONS**

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

WW-6B (04/15)

API NO. 47-033 -	
<b>OPERATOR WELL</b>	NO. Pritt South 217
Well Pad Name:	Pritt South

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

1) Well Operator: Arsenal Resource	es 4	94519412	Harrison	Simpson	Brownton
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Pritt Sou	th 217	Well Pa	ad Name: Pritt	South	
3) Farm Name/Surface Owner: Ira an	d Laura Pritt	Public Ro	ad Access: Co	ounty Route	17
4) Elevation, current ground: 1,351.	.30' Eleva	ation, proposed	l post-construc	tion: 1,354.	80'
5) Well Type (a) Gas X Other	Oil	Unc	lerground Store	age	
(b)If Gas Shallow	x	Deep			
Horizontal	X				
6) Existing Pad: Yes or NoNo					
<ol> <li>Proposed Target Formation(s), Dept Marcellus Shale, 7799.0ft (TVD Heel) – 7799.0ft</li> </ol>	h(s), Anticipa t (TVD Toe), 100ft	ted Thickness t, 0.5 psi/ft Base of	and Expected I Marcellus Shale, 78	Pressure(s): 899.0ft (TVD Hee	H) - 7899.0ft (TVD Toe)
8) Proposed Total Vertical Depth: 7,8	83 ft				
9) Formation at Total Vertical Depth:	Marcellus sh	nale			
10) Proposed Total Measured Depth:	16,425 ft				
11) Proposed Horizontal Leg Length:	7,589.86 ft				
12) Approximate Fresh Water Strata De	epths: 40	00 ft			
13) Method to Determine Fresh Water I 14) Approximate Saltwater Depths: 14		ing wells reported water	depths (033-00660, 033-(	00950, 033-00960, 03	3-00976, 033-00980, 033-03282)
15) Approximate Coal Seam Depths: B	akerstown 483', Brush Cre	ek 582', Upper Freeport 643	, Lower Freeport 703', Uppe	r Kitterning 778', Middle	Kittenning 838', Lower Kittenning 851'
16) Approximate Depth to Possible Voi	d (coal mine,	karst, other):	None		
17) Does Proposed well location contain directly overlying or adjacent to an activ	n coal seams ve mine?	Yes	No.	, <u>x</u>	
(a) If Yes, provide Mine Info: Name	: <u></u>				
Depth					
Seam					
Owne	r:				

WW-6B
(04/15)

API NO. 47- 033

OPERATOR WELL NO. Pritt South 217

Well Pad Name: Pritt South

18)

# CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	H-40	94#	80'	80'	CTS
Fresh Water	13.375"	New	J-55	54.5#	450'	450'	CTS
Coal							
Intermediate	9.625"	New	J-55	40#	1500'	1500'	CTS
Production	5.5"	New	P-110	20#	16,425'	16,425'	TOC @ 1,350'MD
Tubing							
Liners							

B.O. H. 9-14-17

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	36"			0	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:	Office of Oil and Gas
	0.55

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WV Department of Environmental Protection

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API NO. 47- 033 -

OPERATOR WELL NO. Pritt South 217
Well Pad Name: Pritt South

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 in the face of oil and gas 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 a continuously rotated while a

\*Note: Attach additional sheets as needed.



# 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 217 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
- 4. Notify the OOG and Arsenal Resources if any changes in water, gas production, pressure or other anomalies are identified. other anomalies are identified.

Wy Department of Environmental Protection



# 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.





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.
- 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,

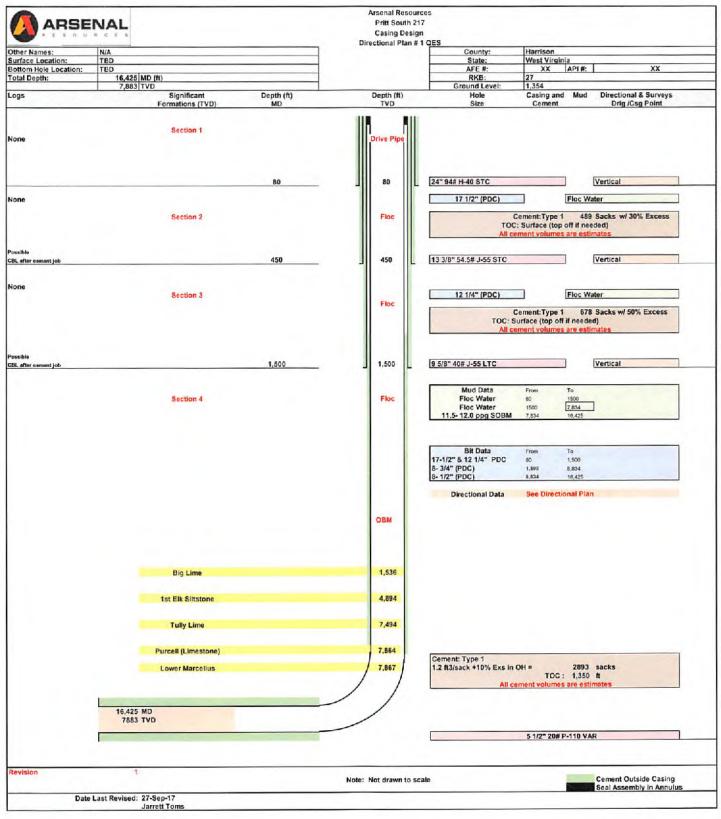
Kelly Davis Permitting Specialist

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/ell Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
r B Goodwin 1	033-02344	Energy Corporation of America	Existing	39.251701	-80.180848	4502	Benson	NA
Goodwin A-1	033-02396	Energy Corporation of America	Existing	39.257796	-80.183275	4664	Benson	NA
Sandy et al	033-02937	Energy Corporation of America	Existing	39.263045	-80.185687	4658	Thirty-foot, Balltown, Benson	AN
Harrison 1	033-00374	Eastern American Energy Corp.	Plugged - 12/7/1956	39.21816	-80.305384	2258	Gantz, Fifty-foot, Fourth, Fifth	NA

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Office of Oil and Gas

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WV Department of Environmental Protection WW-9 (4/16)

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Operator's Well No. Pritt South 217

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name Arsenal Resources OP Code 494519412
Watershed (HUC 10) Beards Run & Pigtail Run Quadrangle Brownton
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No
If so, please describe anticipated pit waste: Produced Water
Will a synthetic liner be used in the pit? Yes No If so, what ml.? 60 ml
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number)
Reuse (at API Number <u>Various</u> 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 landful.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc
-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  Office of Cit and G.
Company Official (Typed Name) William Veigel SEP 2 9 2017
Company Official Title Designated Agent
Company Official Title Designated Agent  Environmental Protection  Total Company Official Title Designated Agent  Environmental Protection  Environmental Protection  Total Company Official Title Designated Agent  Total Company Official Title Designated Agent  Environmental Protection  Environmental Protection  Total Company Official Title Designated Agent  Environmental Protection  Environmental Protection  Total Company Official Title Designated Agent  Environmental Protection  Environmental Protect
Subscribed and sworn before me this 27 day of September, 2017
My commission expires  OFFICIAL SEAL Notary Public, State Of West Virginia AMY R MILLER 109 Parkview Drive No 101 Bridgeport, WV 28330 My Commission Expires July 3, 2022

Proposed Revegetation Treatm	ent: Acres Disturbed 29.78	Prevegetation pH 6	3.8 average
Lime 4	Tons/acre or to correct to pH	6.0-7.5	
Fertilizer type 10-20	-20		
Fertilizer amount 500	) lbs	s/acre	
Mulch 2	Tons/a	cre	
	Seed	Mixtures	
Tem	porary	Permanen	t
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 a provided). If water from the pit acreage, of the land application	nd proposed area for land applica will be land applied, include din area.	ntion (unless engineered plans including nensions (L x W x D) of the pit, and din	
Attach: Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by:  Pre-seed  Pre-seed	nd proposed area for land applicate will be land applied, include din area.  d 7.5' topographic sheet.  a. Hammanulch all disturbed a		nensions (L x W), and
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# SITE SAFETY PLAN

# Pritt South #217 WELL PAD

911 Address:

3460 Green Valley Road

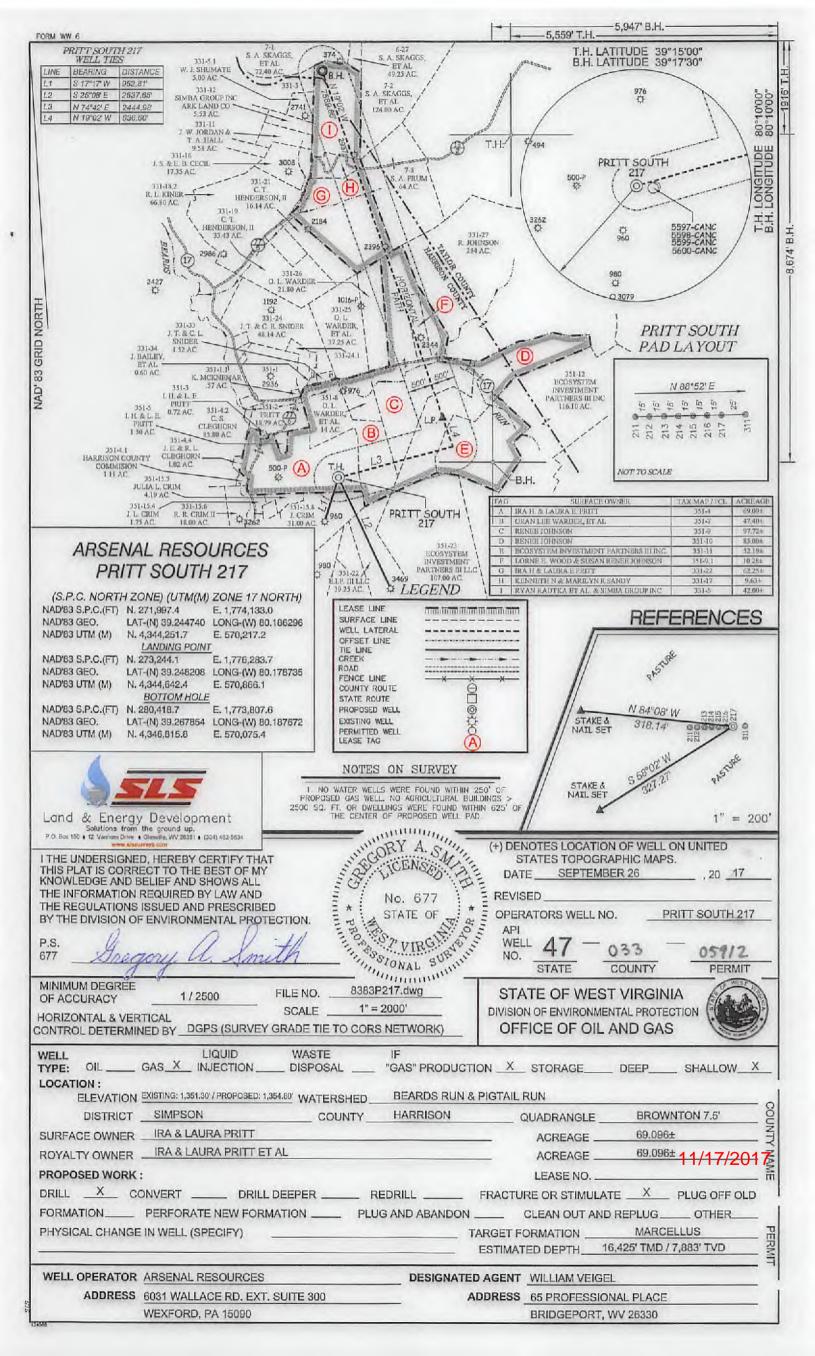
Bridgeport, WV 26330

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WV Department of Environmental Protection

11/17/2017



Operator's Well No.	Pritt South 217
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# INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

# 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 hop nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Arsenal Resources

By:

William Veigel

Its:

Designated Agent

Page 1 of 14

www of

<sup>\*</sup> See Attached

047-033-05912

		Attachment to MAN CA1 Britt Court 217			
Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
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
	Carrizo (Marcellus) LLC	ACP II Marcellus LLC and Carrizo (Marcellus) LLC		1460/1083	
	Carrizo (Marcellus) LLC and ACP II Marcellus LLC	PDC Mountaineer, LLC		1518/395	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
B [Lease 00004364 (WVL00561.000)]		Petroleum Development Corporation	12.50%	1018/107	122
	Petroleum Development Corporation	PDC Mountaineer, LLC		1474/612	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
C, F [Lease 00007872]	Walter D. Goodwin and Dorothy Goodwin, his wife	Petro-Lewis Corporation	12.50%	1062/391	103
	Petro-Lewis Corporation	Partnership Properties Company		1072/213	
	Partnership Properties Company	Eastern American Energy Corporation		1124/449	
	Eastern American Energy Corporation	Energy Corporation of America		59/879 1441/1003	
	Energy Corporation of America	Mar Key, LLC		1596/1233	
D [Lease 00006674]	Debra A. Mulneix	Mar Key, LLC	15.00%	1561/464	85
D [Lease 00006675]	Phyllis G. Steele	Mar Key, LLC	15.00%	1561/454	85
D [Lease 00006676]	Alice L. Donley	Mar Key, LLC	15.00%	1561/451	85
D [Lease 00006677]	Rebecca Collins Biser, acting in her capacity as Attorney in Fact for Sollins, Jr.	Mar Key, LLC	15.00%	1561/490	85
29 2017  Crital Projection  17/2017	Cing Procession Gas				

047-033-05912

85	85	85.1375	85.1375	85.1375	52.19		62.25					9.63							42	
1568/76	1585/239	1598/842	1596/493	1599/315	1453/1290 1561/501	17/228	1062/396	1072/213	1124/449	59/879 1441/1003	1596/1233	1129/238	1130/248	1130/317	1130/538	1200/1110	59/879 1441/1003	1596/1233	1127/1021	
15.00%	15.00%	15.00%	15.00%	15.00%	12.50%		12.50%					12.50%							12.50%	
Mar Key, LLC	Mar Key, LLC	Mar Key, LLC	Mar Key, LLC	Mar Key, LLC	PDC Mountaineer, LLC	River Ridge Energy, LLC	Petro-Lewis Corporation	Partnership Properties Company	Eastern American Energy Corporation	Energy Corporation of America	Mar Key, LLC	A. L. McQuaid	David B. Berry	Berry Energy Consultants & Managers, Inc.	J & J Enterprises, Inc.	Eastern American Energy Corporation	Energy Corporation of America	Mar Key, LLC	A. L. McQuaid	
Gale M. Steele, widow	Marlene B. Steele, widow, by David E. Bowen and Cheryl L. Bowen, as Attorney-in-Fact	George F. Jack, Jr., single	Charles H. Roberts, widower	Mike Ross Inc. & Waco Oil and Gas Inc.	Mark V. Schumacher, unmarried	PDC Mountaineer, LLC	Walter B. Goodwin and Dorothy Goodwin, his wife	Petro-Lewis Corporation	Partnership Properties Company	Eastern American Energy Corporation	Energy Corporation of America	Kenneth N. Sandy and Marilyn R. Sandy, his wife	A. L. McQuaid	David B. Berry	Berry Energy Consultants & Managers, Inc.	J & J Enterprises, Inc.	Eastern American Energy Corporation	Energy Corporation of America	್ಟ್ರೆ ಲ್ಪ್ರೈ Tygart East Company ೧ೣ೨	IVED and Gas 2017
0	[Lease 0000037] D [Lease 00007736]	D [Lease 00007761]	D [Lease 00007766]	D [Lease 00007864]	E [Lease 00004556 (WVL00700.000)]		G [Lease 00007873]					H [Lease 00007881]					Επν		2 [telescond see ] 17/2	it of <sup>lac</sup> lion

1129/947	1130/263	1193/718 1226/893	1226/560	1200/1110 54/439	59/879 1441/1003	1596/1233	1127/1017 42	1129/947	1130/263	1193/718 1226/893	1226/560	1200/1110 54/439	59/879 1441/1003	1596/1233
11	11	11 12	12	120	5 144	159	12.50%	11	11	11 12	12	120	5 24	150
David B. Berry	J & J Enterprises, Inc.	Lost Creek No. 3 Joint Venture	Eastern American Energy Corporation, successor by merger to J & J Enterprises, Inc.	Eastern American Energy Corporation	Energy Corporation of America	Mar Key, LLC	A. L. McQuaid	David B. Berry	J & J Enterprises, Inc.	Lost Creek No. 3 Joint Venture	Eastern American Energy Corporation, successor by merger to J & J Enterprises, Inc.	Eastern American Energy Corporation	Energy Corporation of America	Mar Key, LLC
A. L. McQuaid, doing business as Appalachian Mineral Company	W. B. Berry and David B. Berry	J & J Enterprises, Inc.	Lost Creek No. 3 Joint Venture	J & J Enterprises, Inc.	Eastern American Energy Corporation	Energy Corporation of America	William L. Campbell and Bonnie Campbell, his wife	A. L. McQuaid, doing business as Appalachian Mineral Company	W. B. Berry and David B. Berry	J & J Enterprises, Inc.	Lost Creek No. 3 Joint Venture	J & J Enterprises, Inc.	Eastern American Energy Corporation	Energy Corporation of America
							l [Lease 00007875]							





11/17/2017

l [Lease 00007878]	Jessie M. Campbell, widow	A. L. McQuaid	12.50%	1127/1013	42
	A. L. McQuaid, doing business as Appalachian Mineral Company	David B. Berry		1129/947	
	W. B. Berry and David B. Berry	J & J Enterprises, Inc.		1130/263	
	J & J Enterprises, Inc.	Lost Creek No. 3 Joint Venture		1193/718 1226/893	
	Lost Creek No. 3 Joint Venture	Eastern American Energy Corporation, successor by merger to J & J Enterprises, Inc.		1226/560	
	J & J Enterprises, Inc.	Eastern American Energy Corporation		1200/1110 54/439	
	Eastern American Energy Corporation	Energy Corporation of America		59/879 1441/1003	
	Energy Corporation of America	Mar Key, LLC		1596/1233	
l [Lease 00007879]	Sharon B. Jarvis, Single	A. L. McQuaid	12.50%	1127/1019	42
	A. L. McQuaid, doing business as Appalachian Mineral Company	David B. Berry		1129/947	
	W. B. Berry and David B. Berry	J & J Enterprises, Inc.		1130/263	
	J & J Enterprises, Inc.	Lost Creek No. 3 Joint Venture		1193/718 1226/893	
	Lost Creek No. 3 Joint Venture	Eastern American Energy Corporation, successor by merger to J & J Enterprises, Inc.		1226/560	
	J & J Enterprises, Inc.	Eastern American Energy Corporation		1200/1110 54/439	
	Eastern American Energy Corporation	Energy Corporation of America		59/879 1441/1003	
	Energy Corporation of America	Mar Key, LLC		1596/1233	



# 047-033-05912

l [Lease 00007880]	Mary M. Conard and Francis P. Conard, her husband	Petroleum Development Corporation	12.50%	1076/730	42
	Petroleum Development Corporation	W. B. Berry		1134/189	
	W. B. Berry and David B. Berry	J & J Enterprises, Inc.		1130/263	
	J & J Enterprises, Inc.	Lost Creek No. 3 Joint Venture		1193/718 1226/893	
	Lost Creek No. 3 Joint Venture	Eastern American Energy Corporation, successor by merger to J & J Enterprises, Inc.		1226/560	
	J & J Enterprises, Inc.	Eastern American Energy Corporation		1200/1110 54/439	
	Eastern American Energy Corporation	Energy Corporation of America		59/879 1441/1003	
	Energy Corporation of America	Mar Key, LLC		1596/1233	



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

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

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

[Signature Page Follows]



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

ARSENAL RESOURCES LLC

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

RIVER RIDGE ENERGY, LLC

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

RIVER RIDGE HOLDINGS, LLC

Name: Joel E. Symonds

Title: Vice President - Land

Environmental Protection

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

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Mountaineer Keystone LLC, a West Virginia limited liability company ("Mountaineer Keystone"), PDC Mountaineer, LLC, a Delaware limited liability company ("PDC"), and PDC Mountaineer Holdings, LLC, a Delaware limited liability company ("PDC Holdings"), is effective as of October 15, 2014. (the "Effective Date") and sets forth the terms pursuant to which Mountaineer Keystone will drill, complete and operate the Wells (as defined below) on behalf of PDC and PDC Holdings. Mountaineer Keystone, PDC, and PDC Holdings are each a "Party" and are collectively the "Parties". In consideration of the foregoing and the respective agreements hereinafter set forth and the mutual benefits to be derived therefrom, the Parties, intending to be legally bound, hereby agree as follows:

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

[Signature Page Follows]



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

MOUNTAINEER KEYSTONE LLC

Name:

Title: CEO

PDC MOUNTAINEER, LLC

Name: 24+

Title: Caro

PDC MOUNTAINEER HOLDINGS, LLC

Name: Elect

Title: CEO

Environine his information

# West Virginia Secretary of State — Online Data Services

# **Business and Licensing**

Online Data Services Help

# **Business Organization Detail**

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

# MAR KEY LLC

Organiz	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	1		

Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction	Capital Stock		
Charter County		Control Number	99Q1F	
Charter State	w	Excess Acres		Office SEP
t Will Term	A	Member Managed	MBR	SEP Environmental
t Will erm ears		Par Value		

Page 2 of 3

Authorized	
Shares	1

Туре	Address	
Designated Office Address	65 PROFESSIONAL PLACE SUITE 200 BRIDGEPORT, WV, 26330	
Mailing Address	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA	
Notice of Process Address	CORPORATION SERVICE COMPANY 209 WEST WASHINGTON STREET CHARLESTON, WV, 25302	
Principal Office Address	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA	
P <del>0</del>	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	Office PECEIVED SEP 20
уре	Name/Address	Environ Projection

Annual Reports

Date filed

11/17/2017

Page 3 of 3

Date filed	
5/8/2012	
6/28/2013	
4/28/2014	
6/30/2015	
6/20/2045	
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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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 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,

Coty Brandon

Senior Title Attorney

ty Brandon

Office of Oil end Gas

SEP 2 9 2017

Environmental Protection

6031 Wallace 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 NOTICE CERTIFICATION

	Date of Notice Certification: 9-27-17		API No. 47- 033 -			
				Well No. Pritt S	outh 217	
				ame: Pritt Sou		
Notice has						
Pursuant to tl	ne provisions in West Virginia Code	§ 22-6A, the Operator has provi	ided the req	uired parties w	ith the Notice Forms liste	
	tract of land as follows:					
State:	West Virginia		Easting:	570,217.20		
County: District:	Harrison		Northing:			
Quadrangle:	Simpson Brownton	Public Road Acces Generally used far	7.7	County Route 17		
Watershed:	Beards Run & Pigtail Run	Generally used far	m name.	Ira Pritt		
prescribed by it has provid information r of giving the requirements Virginia Cod	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and seed the owners of the surface descriequired by subsections (b) and (c), see surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	chall contain the following infor- bed in subdivisions (1), (2) an ection sixteen of this article; (ii) irvey pursuant to subsection (a of this article were waived in va- tender proof of and certify to the	mation: (14 d (4), subs that the red d), section the writing by the	A certification ection (b), see quirement was en of this artic the surface ow	on from the operator that ( tion ten of this article, the deemed satisfied as a resu- cle six-a; or (iii) the notioner; and Pursuant to We	
	West Virginia Code § 22-6A, the Operator has properly served the require		is Notice Co	ertification		
	ECK ALL THAT APPLY	ed parties with the following:			OOG OFFICE USE	
*PLEASE CH		_			OOG OFFICE USE ONLY  RECEIVED/ NOT REQUIRED	
*PLEASE CH	ECK ALL THAT APPLY	NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS	CONDUC	ΓED	ONLY  RECEIVED/	
*PLEASE CH	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRI SEISMIC ACTIVITY WAS VEY or ■ NO PLAT SURVE	CONDUC Y WAS CO ED BECAU	TED ONDUCTED JSE	ONLY  RECEIVED/ NOT REQUIRED	
*PLEASE CH	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS VEY or ■ NO PLAT SURVE □ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR P	CONDUC Y WAS CO ED BECAU LAT SURV	TED ONDUCTED JSE YEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/	
*PLEASE CH	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS VEY or ■ NO PLAT SURVE □ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PEWAS CONDUCTED OR □ WRITTEN WAIVER B	CONDUC Y WAS CO ED BECAU LAT SURV	TED ONDUCTED JSE YEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/	
*PLEASE CHI  1. NO*  2. NO  3. NO  4. NO	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF TICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS VEY or ■ NO PLAT SURVE □ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PEWAS CONDUCTED OR □ WRITTEN WAIVER B	CONDUC Y WAS CO ED BECAU LAT SURV	TED ONDUCTED JSE YEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/ NOT REQUIRED	

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 Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of Publication of Notice to the person may be made by affidavit of personal Service Certification of Notice to the person may be made by affidavit of Publication of Notice to the person of No

11/17/2017 tection

# Certification of Notice is hereby given:

THEREFORE, I William Veice , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Facsimile:

 Well Operator:
 Arsenal Resources

 By:
 William Veigel

 Its:
 Designated Agent

 Telephone:
 724-940-1218

Address: 6031 Wallace Road Extension, Suite 300
Wexford, PA 15090

304-848-9134

Email: kdavis@arsenalresources.com

NOTAR OFRIGIAL SEAL
Notary Public, State Of West Virginia
AMY R MILLER
109 Parkview Drive No 101
Bridgeport, WV 26330
My Commission Expires July 3, 2022

Subscribed and sworn before me this 27 day of September 2017

Aug R will Notary Public

My Commission Expires July 3, 2022

## Oil and Gas Privacy Notice:

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

WW-6A (9-13) API NO, 47- 033 OPERATOR WELL NO, Pritt South 217
Well Pad Name: Pritt South

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

Notice Time Requirement: notice shall be provided no later	than the filing date of permit application.		
Date of Notice: 9-27-17 Date Permit Application Filed: _ Notice of:	9-28-17		
✓ PERMIT FOR ANY WELL WORK ✓ CERTIFICATE OF A CONSTRUCTION OF A CONSTRUCT	APPROVAL FOR THE DF AN IMPOUNDMENT OR PIT		
Delivery method pursuant to West Virginia Code § 22-6A	-10(b)		
	THOD OF DELIVERY THAT REQUIRES A CEIPT OR SIGNATURE CONFIRMATION		
registered mail or by any method of delivery that requires a receisediment control plan required by section seven of this article, are the surface of the tract on which the well is or is proposed to be looil and gas leasehold being developed by the proposed well work described in the erosion and sediment control plan submitted puroperator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or well work, if the surface tract is to be used for the placement, contimpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within a provide water for consumption by humans or domestic animals; proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applications of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is			
SURFACE OWNER(s)	☑ COAL OWNER OR LESSEE		
Name: Ira H. Pritt & Laura E. Pritt Address: 3444 Green Valley Road	Name: See Attached List Address:		
Bridgeport, WV 26330			
Name:	□ COAL OPERATOR		
Address:	Name:		
	Address:		
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached List	SURFACE OWNER OF WATER WELL		
	AND/OR WATER PURVEYOR(s)		
Address:			
	Name: See Attached List		
Nomai	Name: See Attached List		
Name:	Name: See Attached List Address:		
Name:	Name: See Attached List Address:  DOPERATOR OF ANY NATURAL GAS STORAGE FIELD		
Name:Address:	Address:  OPERATOR OF ANY NATURAL GAS STORAGE FIELD		
Name:	Address:  OPERATOR OF ANY NATURAL GAS STORAGE FIELD		
Name:	Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD  Name: Address: SEP		
Name:	Name: See Attached List Address:  OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address:  SEP 29 2017  *Please attach additional forms if necessary		

WW-6A (8-13) Office co. API NO. 47-033-05912
API NO. 47-033 SEP 2 9 20 | OPERATOR WELL NO. Pritt South 217
Well Pad Name: Pritt South
Environmental Protection

# 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 <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

# 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 217

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:

Office of Oil and Gas

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

SEP 2 9 2017

WV Department of Environmental Protection

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 217

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

### Permit Denial or Condition

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

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

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

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



WW-6A (8-13)

API NO. 47-033

OPERATOR WELL NO. Pritt South 217

Well Pad Name: Pritt South

Notice is hereby given by:

Well Operator: Arsenal Resources

Telephone: 724-940-1218
Email: kdavis@arsenalresources.com

Address: 6031 Wallace Road Extension, Suite 300

Wexford, PA 15090

Facsimile: 304-848-9134

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
Notary Public, State Of West Virginia
AMY R MILLER
109 Parkview Drive No 101
Bridgeport, WV 26330
My Commission Expires July 3, 2022

Willes U,

Subscribed and sworn before me this 27 day of September. 2017

Aug Ruille Notary Public

My Commission Expires July 3, 2022

Office of Oil and Gas
SEP 29 2017

WV Department of Environmental Protection 11/17/2017

# 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



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

Rebecca Turner, William & Robert Snyder 5 Narrow Road Hanover, PA 17331

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

Spartan Exploration Company 1883 Blue Isle Ct. Holland, MI 49424

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 3658 Green Valley Road Bridgeport, WV 26330

Lucas Johnson etal C/O Thomas Johnson 3828 W. Veterans Memorial Hwy Bridgeport, WV 26330

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

#### Water Purveyors, continued:

Oran Warder etal 2381 Silverado Drive Weatherford, TX 76087 RECEIVED
Office of Oil and Gas

OCT 02 2017

WV Department of Environmental Protection

2 | Page

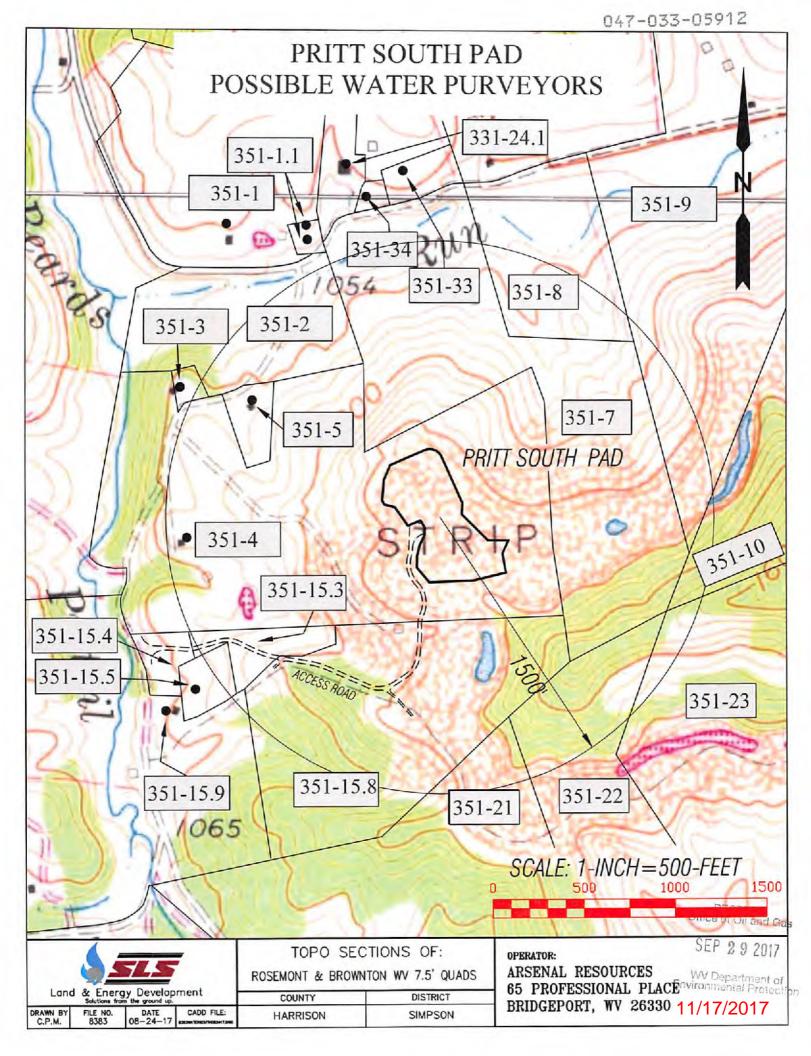
Renee Johnson 511 Beards Run Road Bridgeport, WV 26330 Ronald & Jody Crim 2825 Green Valley Road Bridgeport, WV 26330 Julia Crim 75 Crim Lane Bridgeport, WV 26330 Sandy Crim 75 Crim Lane Bridgeport, WV 26330 Della R. Riffle 11 Crim Lane Bridgeport, WV 26330 **Ecosystem Investment** Partners III, LLC 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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OCT 02 2017

WV Department of Environmental Protection

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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

#### <u>351-7</u>

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 Office of Oil and Gas

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WV Department of Environmental Protection





#### 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

Office RECEIVED
SEP 29 2017

Environmental Protection





331-24.1 Joshua Thompson 143 Beards Run Road Bridgeport, WV 26330





WW-6A4 (1/12)

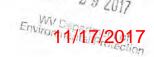
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

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

Notice Time Date of Noti	Requirement: Notice shall be pose: 9-27-17	provided at least TEN (10) days prior to filing  Date Permit Application Filed: 9-28-	a permit application.
Delivery me	thod pursuant to West Virgini	a Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED M	IAII	
DELIVI		CEIPT REQUESTED	
receipt reque drilling a hor of this subsection manager	sted or hand delivery, give the sizontal well: <i>Provided</i> , That notion as of the date the notice was be waived in writing by the s	east ten days prior to filing a permit application ourface owner notice of its intent to enter upon outce given pursuant to subsection (a), section as provided to the surface owner: <i>Provided, he</i> surface owner. The notice, if required, shall into onic mail address of the operator and the operator	the surface owner's land for the purpose of ten of this article satisfies the requirements owever, That the notice requirements of this clude the name, address, telephone number,
Notice is he	reby provided to the SURF		
Name: Ira H. Pr		Name:	
Address: 3444 Bridgeport, WV 2	Green Valley Road	Address:	
Pursuant to V		(b), notice is hereby given that the undersigne	
Pursuant to V the surface or	Vest Virginia Code § 22-6A-16	rilling a horizontal well on the tract of land as Easting:	follows: 570,217.20
Pursuant to V the surface of State: County:	Vest Virginia Code § 22-6A-16( wner's land for the purpose of di West Virginia Harrison	rilling a horizontal well on the tract of land as  Easting: Northing:	follows: 570,217.20 4,344,251.70
Pursuant to V the surface of State: County: District:	Vest Virginia Code § 22-6A-16( wner's land for the purpose of di West Virginia Harrison Simpson	rilling a horizontal well on the tract of land as  UTM NAD 83  Easting: Northing: Public Road Access:	follows: 570,217.20 4,344,251.70 County Route 17
Pursuant to V	Vest Virginia Code § 22-6A-16( wner's land for the purpose of di West Virginia Harrison	rilling a horizontal well on the tract of land as  Easting: Northing:	follows: 570,217.20 4,344,251.70
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Pursuant to Verthe surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurrelated to hoo located at 60 Notice is he	Vest Virginia Code § 22-6A-16( wner's land for the purpose of di West Virginia  Harrison Simpson Brownton Beards Run & Pigtail Run  Shall Include: West Virginia Code § 22-6A-1 mber and electronic mail addre rizontal drilling may be obtaine 1 57 <sup>th</sup> Street, SE, Charleston, Wiereby given by:	Public Road Access:  Generally used farm name:  16(b), this notice shall include the name, ad east of the operator and the operator's authorized from the Secretary, at the WV Department V 25304 (304-926-0450) or by visiting www.	follows:  570,217.20  4,344,251.70  County Route 17  Ira Pritt  dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Verthe surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to be facsimile nurelated to hoo located at 60 Notice is he Well Operator	Vest Virginia Code § 22-6A-16( wher's land for the purpose of di West Virginia Harrison Simpson Brownton Beards Run & Pigtail Run  Shall Include: West Virginia Code § 22-6A-1 mber and electronic mail addre rizontal drilling may be obtaine 1 57 <sup>th</sup> Street, SE, Charleston, Wiereby given by: or: Arsenal Resources	rilling a horizontal well on the tract of land as  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  16(b), this notice shall include the name, ad the operator's authorized from the Secretary, at the WV Department V 25304 (304-926-0450) or by visiting www.  Authorized Representative	follows:  570,217.20  4,344,251.70  County Route 17  Ira Pritt  dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.  e: William Veigel
Pursuant to Verthe surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to refacsimile nuirelated to hoo located at 60 Notice is he Well Operated Address:	Vest Virginia Code § 22-6A-16( wner's land for the purpose of di West Virginia Harrison Simpson Brownton Beards Run & Pigtail Run  Shall Include: West Virginia Code § 22-6A-1 mber and electronic mail addre rizontal drilling may be obtaine 1 57 <sup>th</sup> Street, SE, Charleston, Witereby given by:  are properties of the purpose	rilling a horizontal well on the tract of land as  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  16(b), this notice shall include the name, ad east of the operator and the operator's authorized from the Secretary, at the WV Department V 25304 (304-926-0450) or by visiting www.  Authorized Representativ Address:	follows:  570,217.20  4,344,251.70  County Route 17  Ira Pritt  dress, telephone number, and if available, ized representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
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Oil and Gas Privacy Notice:

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



WW-6A5 (1/12)

Operator Well No. Pritt South 217

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

Delivery met	hod pursuant to West Virginia	Code § 22-6	A-16(c)		
■ CERTI	FIED MAIL	□ на	ND		
	RN RECEIPT REQUESTED		LIVERY		
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice.  Notice is here	requested or hand delivery, give operation. The notice required by provided by subsection (b), section for izontal well; and (3) A propose surface affected by oil and gas as required by this section shall be supposed by provided to the SURFACE	the surface or y this subsection ten of this sed surface upperations to e given to the OWNER(s)	wner whose land etion shall includes article to a surface use and compense the extent the date e surface owner a	I will be used for de: (1) A copy ace owner whose ation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the addres Name: Ira H. Pri	s listed in the records of the sherif	ff at the time			
	Green Valley Road	- /	Name:		<del></del>
Bridgeport, WV 26		_	Addies		
operation on	the surface owner's land for the p				well operator has developed a planned act of land as follows:
State: County:	the surface owner's land for the p West Virginia Harrison Simpson			l well on the tra Basting: Northing:	
State: County: District:	West Virginia Harrison		UTM NAD 8 Public Road	l well on the tra Basting: Northing:	ct of land as follows: 570,217.20 4,344,251.70
State: County: District:	West Virginia Harrison Simpson		UTM NAD 8 Public Road	l well on the tra Easting: Northing: Access:	ct of land as follows: 570,217.20 4,344,251.70 County Route 17
State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters,	West Virginia  Harrison Simpson Brownton Beards Run & Pigtail Run  Shall Include:  Vest Virginia Code § 22-6A-16(c)  ed by W. Va. Code § 22-6A-10(l)  ll; and (3) A proposed surface us ed by oil and gas operations to t elated to horizontal drilling may located at 601 57th Street, SE,	this notice so to a surface and comper the extent the be obtained	UTM NAD 8 Public Road A Generally use shall include: (1) ce owner whose nsation agreeme damages are co from the Secret	Easting: Northing: Access: ed farm name:  A copy of this e land will be int containing an ompensable undary, at the WV	ct of land as follows: 570,217.20 4,344,251.70 County Route 17
State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	West Virginia  Harrison Simpson Brownton Beards Run & Pigtail Run  Shall Include: /est Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(l) ll; and (3) A proposed surface us ed by oil and gas operations to te elated to horizontal drilling may located at 601 57 <sup>th</sup> Street, SE, fault.aspx.	this notice so to a surface and comper the extent the be obtained	UTM NAD 8 Public Road A Generally use shall include: (1) ce owner whose nsation agreeme damages are co from the Secret n, WV 25304	l well on the tra Easting: Northing: Access: d farm name:  A copy of this land will be int containing arompensable undary, at the WV (304-926-0450)	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def  Well Operato	West Virginia  Harrison Simpson Brownton Beards Run & Pigtail Run  Shall Include: /est Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(l) ll; and (3) A proposed surface us ed by oil and gas operations to te elated to horizontal drilling may located at 601 57 <sup>th</sup> Street, SE, fault.aspx.	this notice so to a surface and comper the extent the be obtained	UTM NAD 8 Public Road A Generally use shall include: (1) ce owner whose nsation agreeme damages are co from the Secret	l well on the tra Easting: Northing: Access: d farm name:  A copy of this land will be int containing arompensable undary, at the WV (304-926-0450)	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-extension">www.dep.wv.gov/oil-and-extension</a> , Suite 300
State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	West Virginia  Harrison  Simpson  Brownton  Beards Run & Pigtail Run  Shall Include:  Vest Virginia Code § 22-6A-16(c)  Ed by W. Va. Code § 22-6A-10(l)  Edit; and (3) A proposed surface us  ed by oil and gas operations to telated to horizontal drilling may  located at 601 57th Street, SE,  ault.aspx.  F: Arsenal Resources	this notice so to a surface and comper the extent the be obtained	UTM NAD 8 Public Road A Generally use shall include: (1) ce owner whose nsation agreeme damages are co from the Secret n, WV 25304	l well on the tra Easting: Northing: Access: ed farm name:  A copy of this I land will be int containing an impensable undary, at the WV (304-926-0450)	code section; (2) The information requised in conjunction with the drilling offer of compensation for damages to der article six-b of this chapter. Additionally or by visiting www.dep.wv.gov/oil-sextension, Suite 300

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.



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

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

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

September 21, 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 217

47-033-059/2

Dear Mr. Martin,

Jim Justice

Governor

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,

Gary K. Clayton, P.E.

Regional Maintenance Engineer

Gang K. Clayton

Cc: Kelly Davis

ARSENAL Resources

CH, OM, D-4

File

Office of Oil and Gas
SEP 2 9 2017
Environmental Protection

Pritt South # 217					
FRACTURING ADDITIVES					
	PURPOSE	TRADE NAME	CAS#		
Additive #1:	Friction Reducer	WFRA-405	Proprietary		
Additive #2:	Scale Inhibitor	SI-1000	7440-21-3		
Additive #3:	Biocide	BIOCLEAR 2000	25314-61-8		
Additive #4:	Gelling Agent	LGC-15	9000-30-0		
Additive #5:	Corrosion Inhibitor	AI-300	111-76-2		
Additive #6:	Gel Breaker	AP-One	7727-54-0		
Additive #7:	Acid	HCl - 7.5%	7647-01-0		



PHONE 3 Solle 200 Solle 200 ARSEN	COVER SHEET COVER SHEET PLAN MARKET WEST VIRIONE		575	1 5	SCLEET NO.
1140 08 1/1/2 0 /88/5 01 /.0/5 11	Larson Design Group - Architects Engineers Surveyors Norgoniown, W. 756/08 PHONE 304,777,2940 TOLL FREE 877,325,650.5 FAX 724,779 5044 - www.lorsondesigngroup.com	12 Vonhom Brive Clenck of WV 26351	Sammer of the second of the se	OF 37	10793-005

# PRITT SOUTH SITE PLAN ARSENAL RESOURCES

(PROPOSED WELLS NO. 201, 202, 203, 204, 205, 206, 301, 211, 212, 213, 214, 215, 216, & 311)

SITUATE ON THE WATERS OF BEARDS RUN AND PIGTAIL RUN IN SIMPSON DISTRICT, HARRISON COUNTY, WEST VIRGINIA

BY OH

83)

(NAD

-80.186800

-80.192380 (NAD 83)

LATITUDE: 39.241841 LONGITUDE:

LOCATION COORDINATES

CENTER OF PRITT SOUTH WELL PAD

LATTUDE: 39.245319

(NAD 83) (NAD 83)

-80.185139

LATITUDE: 39.244714 LONGITUDE:

CENTER OF ABOVECROUND STORACE

-80.183541

LONGITUDE:

LATITUDE: 39.245265

GENERAL DESCRIPTION

65 PROFESSIONAL PLACE

SUITE 200

TOTAL PROPERTY AREA: 47,40 AC

ORAN WARDER TM 351 PAR 7

ARSENAL RESOURCES

OPFRATOR

69.06 AC

TOTAL DISTURBED AREA:

IRA PRITT TM 351 PAR 4 TOTAL PROPERTY AREA:

15, 15.3, 15.5

MAP 351 PARCELS 4, 7,

SURFACE OWNER:

SIMPSON DISTRICT

PROJECT NAME: PRITT SOUTH

TAX PARCEL:

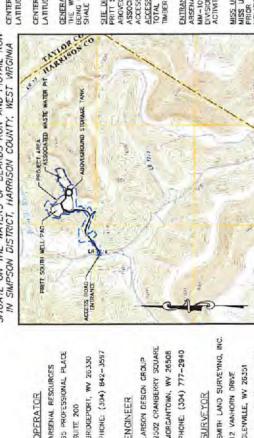
PROJECT INFORMATION

PHONE: (304) 842-3597 BRIDGEPORT, WY 26330

JULIA CRIM TM 351 PAR 15,8 TOTAL PROPERTY AREA: 31 AC TOTAL DISTURBED AREA: 6,90 AC

CENTER OF ASSOCIATED WASTE WATER PIT





2502 CRANBERRY SQUARE PHONE: (304) 777-2940

LARSON DESIGN GROUP

ENGINEER

MORGANTOWN, WV 26508

4.19 AC 2.77 AC

JULIA CRIM TM 351 PAR 15.3 TOTAL PROPERTY AREA: 4. TOTAL DISTURBED AREA: 2

SURVEYOR

SANDY CRIM
TM 351 PAR 15.5
TOTAL PROPERTY AREA: 2.05 AC
TOTAL DISTURBED AREA: 0.05 AC

ROWNTON QUADRANGLE WEST VIRGINIA SCALE: 1" = 2000"

PHONE: (304) 462-5634

GLENMLLE, WV 26351 12 VANHORN DRIVE

MISS Little of West Virginia 1–1800–245–4448 West Virginia State Low (Section XIV: Copper 24-C) Requires that you call two business days backer you dig in the state of West Virginia.



6/2/2017 3

TATE OF OVERALL PLAN SHEET INDEX

WASTE WATER PIT CROSS SECTIONS ACCESS ROAD CROSS SECTIONS WELL PAD CROSS SECTIONS ACCESS ROAD PROFILE RECLAMATION PLAN SITE LAYOUT DETAILS 25-37 10-14 15-18 19-20 21-24 5-8

GENERAL NOTES

2-3

COVER SHEET

SHEET INDEX

LITHER ARE NO WELLANDS WITHIN 100 FEET OF THE WELL PAD LOO.

LITHER ARE NO PRETAINEL STREAMS, LAKES, LONGS, OR RESENORS WITHIN 100 FEET OF THE WELL PAD LOD.

LITHER ARE NO RATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOO.

LITHER ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOO.

S. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC ON DEVALORD SPRINGS WITHIN 25 FEET OF THE WELL PAD.

S. THERE ARE NO GOCHPIED OWELLING STRECTHERS WITHIN 625 FEET OF THE WELL PAD.

Z. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

asional Place

AC

PRITT SOUTH WELL PAD = 9.15 AC ABOVEGROUND STORAGE TANK PAD = 3.33 ASSOCIATED WASTE WATER PIT = 4.98 AC ACCESS ROAD TO WELL PADS = 10.67 AC

SITE DISTURBANCE COMPUTATIONS

ACCESS ROAD TO AST / PIT = 1.65 AC.
TOTAL SITE DISTURBANCE = 29.78 AC.

IMBER CLEARING AREA = 16.30 AC

ENTRANCE PERMIT

ARSENAL MM-109) ACTIVITIES.

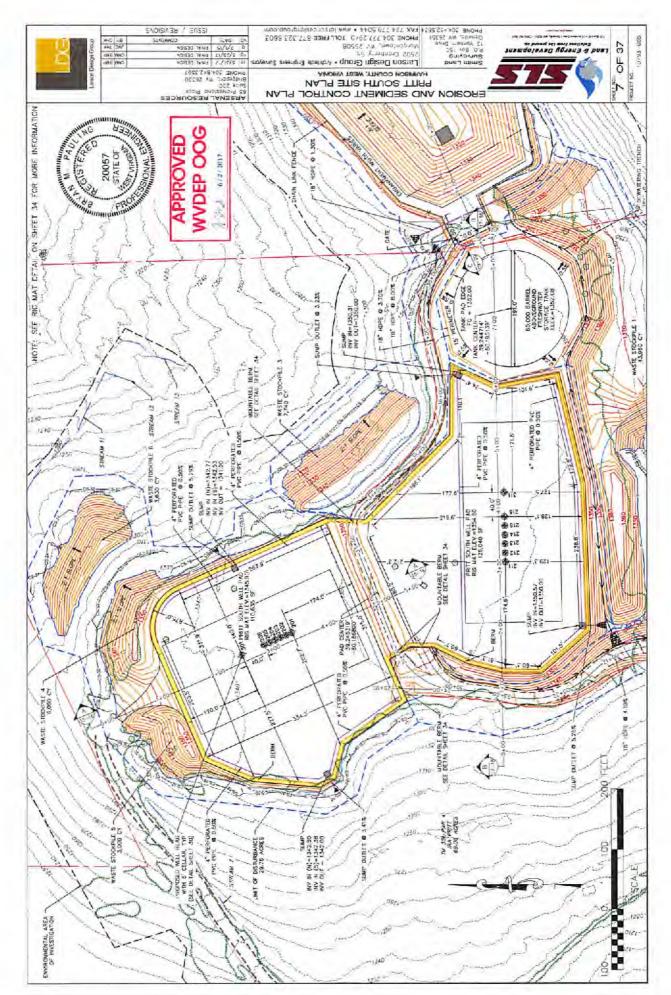
THE WELL PAD, ASSOCIATED PIT, AND ABOVEGROUND STORAGE TANK ARE GENEROCKED TO AND IN THE DEVELOPMENT OF INDIVIDUAL MARGELLUS SHALE GAS WELLS. TRANSPORTATION OF CONSTRUCTION MISS UTILITY STATEMENT.
MISS UTILITY STATEMENT WAS NOTED FOR THE LOCATING OF UTILITIES
MISS UTILITY OF WEST VREQUENT DESIGN, TICKET MISSOBIOJSA. IN ADDITION, MISS
UTILITY WILL BE CONTACTED PRICIA TO START OF THE PROJECT. THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS NOT LOCATED WITHIN THE EXISTING FEMA NOT-TEACH FLOODPLAIN. NO FEMA MAP EXISTING PIAS LOCATION IN HARRISON COUNTY. RESOURCES WILL OBTAIN AN ENGROACHMENT PERMIT FROM THE WEST VIRIGINIA DEPARTMENT OF TRANSPOR OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRA

WELLAND DELINEATIONS WERE PERFORMED ON MARCH 3, 2015, MARCH 11, 2017 BY ALLSTAR 2015, APRIL 8, 2015, MAY 8, 2015, MO MARCH 17, 2017 BY ALLSTAR 2015, APRIL 8, 2015, MAY 8, 2015, MO WATCH 17, 2017 BY ALLSTAR ECCLOST TO REVEW THE SITE FOR WATTERS AND WELLANDS THAT ARE MOST LIKELY WITHIN THE REQUIATORY PURVEY OF THE U.S. ARMY CORPS OF ENGINEES (USACE 2014) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENGINEERING TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHBIT PRICH TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHBIT PRICH TO ENGAGINE CASSITUATION ON THE PROPERTY DESCRIBED HERBIT. THE DEPARTMENT E PRICH TO SHOW THE FEDERAL AND/OR STALT RECULATORY AGENCIES PRICH TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

ENVIRONMENTAL NOTES

FLOODPLAIN NOTE

A COLDECHICAL INVESTIGATION OF THE PROPOSED SITE WAS CONDUCTED BY CACCOMPLICATION OF THE PROPOSED SITE WAS CONDUCTED BY PREPARED BY CAL CONVEY ENGINEERING, DATED JULY 2012 REFLECTS THE RESOLUTE OF THE SUBSURATION. THE INFORMATION AND RECOMMEND TOWNS CONTINUED IN THIS REPORT WAS USED IN THE PREPARATION OF THESE DELAYS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION.





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

DEP Office Use only		
Date Received by Oil & Gas:	8-29-17	
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	Contact Title:	Regulatory Affairs Manager
Contact Phone:	304-629-6309	Contact Email:	ecarder@arsenalresources.com

#### Section 2 - Engineering / Design Contractor Information

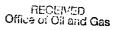
Design will be contracted   □ Designed in-house □	
Company Name: Smith Land Surveying, Inc. & L	arson Design Group
Address: Street 12 Vanhorn Dr.	
City: Glenville	State: WV Zip: 26351
Contact Name: Chris Moyers	Contact Title: Sr. Design Coordinator
Contact Phone: 304-462-5634	Contact Email: cmoyers@slssurveys.com
Certifying Professional Engineer: Bryan Pauling	
Professional Engineer Registration Number: 20057	

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AUG 29 2017

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Environmentalist of action





Office of Oil and Gas

AUG 29 2017

WV Department of Environmental Protection

### Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below:					
☐ Freshwater Impoundment ⊠ Waste 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)					
Watershed (nearest perennial): Beards Run					
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)					
Latitude: 39.243282 Longitude (Use negative sign): -80.192459					
UTM Coordinates :					
Approximate Dimensions					
Length: 612' +/- Width: 200' +/- Height: 32.9  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					
Barrels: 387,574 Gallons: 16,278,095 Acre-Feet: 49.96					
Capacity with 2' Freeboad – Provide all units of measure below:					
0.40.004					
Barrels: 340,964 Gallons: 14,320,480 Acre-Feet: 43.95					
Incised volume:					
Barrels: 39,572 Gallons: 1,662,011 Acre-Feet: 5.10					
Salions. Mossie Ref. Salions					
Net impounded volume: (Total volume less incised volume.)					
Barrels: 348,002 Gallons: 14,616,084 Acre-Feet: 44.86					
7,010 1 000					
Anticipated Construction Start Date (estimation, non-binding): June 2017					
Note: No construction may begin on Associoated impoundment until WVDEP issues the drilling permit. At least 7					
1					

**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.

We	ll Number(s):	API Number(s) – If issued:	
See	Attached		
			RECEIVED
			Office of Oil and Go
			AUG <b>2</b> 9 2017
			W/ Deportment of Environmental Protect
Sec Imp	oundments or Pits. Include the	Checklist To Register Permit Asset following information and plans with	ociated application.
	Engineered Construction Plans, cert	• • • • • • • • • • • • • • • • • • • •	
X	Erosion and Sediment Control Plan, Reclamation Plan, certified by WV R	•	
Sec	defined as a dam, under W.Va Rule all permits regulating dams will be re	n evaluated by the applicant to determine it of §47-34. If the design of this structure qualification prior to registering the structure with P. Div. Of Water and Waste, is available for r	ies it to be defined as a dam, the Office of Oil and Gas.
Sec		ny additional comments concerning t	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: 3 cum Parling		
Title: Diercha		
Signature:		
Taken, subscribed and swern to before me this, pay of May	20	17
Notary Public: Lungher a. Campbell		
My commission expires. 4/18/2/		
Notary Seal:		
COMMONWEALTH OF PENNSYLVANIA  NOTARIAL SEAL	RE? Office of	DEIVED Oil and Gas
Kristen Ann Campbell, Notary Public Armstrong Twp., Lycoming County My Commission Expires April 18, 2021	AUG 2	2 9 2017
MEMBER, PENNSYLVANIAASSOCIATION OF NOTARIES	WV Der Environme	ertment of

#### Section 9. Submittal Instructions

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 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

RECEIVED
Office of Oil and Gas

AUG 2 9 2017

VM Department of Environmental Protection