

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 206

47-033-05909-00-00

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 206 Farm Name: IRA & LAURA PRITT

U.S. WELL NUMBER: 47-033-05909-00-00

Horizontal 6A / New Drill

Date Issued: 11/15/2017

Promoting a healthy environment.

API Number: 33-05909

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 33-05909

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		
OPERATOR WEL	L NO.	Pritt South 206
Well Pad Name:	Pritt S	outh

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

	tor: Arsenal	Resources	494	1519412	Harrison	Simpson	Brownton
			Op	erator ID	County	District	Quadrangle
2) Operator's V	Well Number:	Pritt South 206		Well Pa	ad Name: Pritt	South	
3) Farm Name	Surface Own	er: Ira and Laur	a Pritt	_ Public Ro	ad Access: Co	ounty Route	17
4) Elevation, co	urrent ground	: 1,342.20'	Elevati	on, proposed	post-construc	tion: 1,345.	90'
5) Well Type	(a) Gas _	X Oil		Und	lerground Stor	age	
	(b)If Gas	Shallow	x	Deep			
		Horizontal	X	700			
6) Existing Pad	: Yes or No	No					
7) Proposed Ta Marcellus Shale	rget Formatio	on(s), Depth(s), A eel) - 7790.0ft (TVD To	nticipateo	d Thickness : 5 psi/ft Base of	and Expected I	Pressure(s): 390.0ft (TVD Hee	el) - 7890.0ft (TVD Toe)
8) Proposed To	tal Vertical D	epth: 7,874 ft					and the second
9) Formation at		The second second	ellus shal	е			
10) Proposed T	otal Measure	1 Depth: 14,40	1 ft				
			.33 ft				
11) Proposed H	orizontal Leg	Length: 5,594					
11) Proposed H 12) Approxima		Length: 5,594 or Strata Depths:	400	ft			
12) Approxima 13) Method to I	te Fresh Wate Determine Fre	er Strata Depths:			depths (033-00660, 033-0	00950, 033-00960, 03	3-00976, 033-00980, 033-03262)
12) Approxima 13) Method to I 14) Approximat	te Fresh Wate Determine Fre te Saltwater D	er Strata Depths: esh Water Depths Depths: 1400'	Offsetting v	wells reported water of			3-00976, 033-00980, 033-03262) Kitanning B38', Lower Kitanning B51'
12) Approximate 13) Method to I 14) Approximate 15) Approximate	te Fresh Water Determine Freste Saltwater Determine Total	er Strata Depths: esh Water Depths Depths: 1400'	Offsetting v	wells reported water of water	', Lower Freeport 703', Uppe		
12) Approximate 13) Method to I 14) Approximate 15) Approximate 16) Approximate 17) Does Propos	te Fresh Water Determine Freste Saltwater Determine Coal Seam te Coal Seam te Depth to Posed well locat	er Strata Depths: esh Water Depths Depths: 1400' Depths: Bakerstown 48	Offsetting of the creek of the	wells reported water of water	', Lower Freeport 703', Uppe	r Kittanning 778', Middle	
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ADI	NO	47-	033	
(A)	INU.	41-		_

OPERATOR WELL NO. Pritt South 206

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#	14,401'	14,401'	TOC @ 1,350'MD
Tubing							
Liners							



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 or Oil and Gas

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(10/14)	

API NO. 47- 033 -

OPERATOR WELL NO. Pritt South 206

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- ½" 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.

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 29.78

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

23) Describe centralizer placement for each casing string:

24"- No centralizers 13 3/8" – one bow spring centralizer on every other joint 9 5/8" – one bow spring centralizer every third joint from TD to surface 5 $\frac{1}{2}$ " – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,400'; there will be no centralizers from 1,400' to surface.

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

24" will be grouted from surface. The 13-3/8" casing will be cemented to surface with Class A cement and no greater than 3% CaCl (calcium chloride). The 9-5/8" casing will be cemented to surface with Type 1 cement, & no greater than 3% calcium chloride. The 5-1/2" production string will be cemented back to 1,150' (+/- 200' above the casing shoe for the 9-5/8") with Type 1 or Class A cement retarder (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly a gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right-angle" set) during the plastic phase of the cement set-up.

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

047-033-05909 Arsenal Resources ARSENAL Pritt South 206 Casing Design Directional Plan #1 QES Other Names: County: Harrison Surface Location: Bottom Hole Location: TBD TBD State: AFE #: West Virginia
XX API#: 14,401 MD (ft) 7,874 TVD Total Depth: RKB: 1,354 Casing and Mud Ground Level: Depth (ft) Depth (ft) Directional & Surveys Logs Significant Hole Formations (TVD) MD TVD Size Cement Drig /Csg Point None 80 24" 94# H-40 STC Vertical None 17 1/2" (PDC) Floc Water Cement:Type 1 489 Sack TOC: Surface (top off if needed) 489 Sacks w/ 30% Excess Section 2 Floc nes are estimat Vertical 13 3/8" 54.5# J-55 STC CBL after 450 450 Floc Water Section 3 12 1/4" (PDC) Floc 678 Sacks w/ 50% Excess Cement:Type 1 678 S TOC: Surface (top off if needed) mes are estima CBL after ce 1,500 1,500 9 5/8" 40# J-55 LTC Vertical Mud Data To Section 4 Floc Floc Water 1500 7,700 Floc Water 1500 11.5- 12.0 ppg SOBM Bit Data 17-1/2" & 12 1/4" PDC From 80 8- 3/4" (PDC) 8- 1/2" (PDC) 1,500 8,700 See Directional Plan Directional Data ОВМ Big Lime 1,536 1st Elk Siltstone 4,894 Tully Lime 7.494 Purcell (Limestone) 7,864 Cement: Type 1 1.2 ft3/sack +10% Exs in OH = Lower Marcellus 7,867 2507 sacks TOC: 1,350 ft 14,401 MD 7874 TVD 5 1/2" 20# P-110 VAR Note: Not drawn to scale Cement Outside Casing Seal Assembly in Annulus Date Last Revised: 24-Aug-17

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near Arsenal Resources hydraulic fracturing in Harrison County, WV prior to hydraulic fracturing at the following Arsenal Resources wells on the Pritt South 206 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:

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



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.
- 3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
- 4. Notify the OOG and ARSENAL RESOURCES if any changes in water, gas production, pressure or other anomalies are identified.

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

	Producing Zones not Per	AN	NA	NA	AN	NA			
County, WV	Total Depth Perforated Formation(s)	Benson							
Harrison	Total Depth	4508							
206 Lateral,	Longitude	-80.178027							
Area of Review ReportPritt SouthPad,206 Lateral,HarrisonCounty, WV	Latitude	39.240368							
eview ReportPritt	Well Type	Plugged - 7/15/2010							
Area of Re	Operator Name / Address	ant Corp.							
	ш	033-00489							
	Well Name	Lyda Drainer 1							

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WV Department of Environmental Protection 11/17/2017

WW-9 (4/16)

API Number 47 -	033	-
Operator	a Wall	No new near

Operator's Well No. Pritt South 206 STATE OF WEST VIRGINIA NT OF ENVIRONMENT 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 com	nplete the proposed well work? Yes V No
Vill a pit be used? Yes ✓ No	
If so, please describe anticipated pit waste: Produc	ced Water
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 60 ml
Proposed Disposal Method For Treated Pit Wastes:	SDOW
Land Application	5DW 8/24/2017
Underground Injection (UIC Pern	nit Number
Reuse (at API Number Various Off Site Disposal (Supply form W	/W-9 for disposal location)
Other (Explain	, 7 7 101 disposal foculton,
/ill closed loop system be used? If so, describe: Yes, The closed	loop system will contain all of the drilling medium and drill cuttings on location to than be taken to a landfill.
rilling medium anticipated for this well (vertical and horizon	ntal)? Air, freshwater, oil based, etc
-If oil based, what type? Synthetic, petroleum, etc	Synthetic
dditives to be used in drilling medium? Bentonite, Soap and Poly	ymer sticks, Soda Ash, Sodium Bicarbonate, Defoamer, Base Oil, Emulsifiers, Lime, & Barite
rill cuttings disposal method? Leave in pit, landfill, remove	Viv. I Viv
-If left in pit and plan to solidify what medium will b	
-Landfill or offsite name/permit number? Advanced to	Disposal Services, Chestrut Valley Landilli
	Gas of any load of drill cuttings or associated waste rejected at any ed within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Vorovisions of the permit are enforceable by law. Violations aw or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that, bas	d conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable lly examined and am familiar with the information submitted on this sed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant identity of fine or imprisonment.
Company Official Signature WWW (Office of County Co
ompany Official (Typed Name) William Veigel	THE PER STATE
ompany Official Title_ Designated Agent	AUG 3 1 2017
	V 1/T/ = orl - orl - EUVine min (Uha)
ubscribed and sworn before me this 29th day of	1
Kelly a. Eddy Ay commission expires September 18, 2	NOTARY PUBLIC OFFICIAL SEAL OCAR PUBLIC OFFICIAL SEAL OCAR PUBLIC OFFICIAL SEAL KELLY A. EDDY RT 2 BOX 225A JANE LEW, WY 26378
,	MY COMMISSION EXPIRES SEPT. 18, 2018 17/20

Operator's Well No. Pritt South 206

	ent: Acres Disturbed 29.78	Prevegetation pH 6.8	3 average
	Tons/acre or to correct to pH	6.0-7.5	
Fertilizer type _10-20	-20		
Fertilizer amount_500	lbs	/acre	
Mulch 2	Tons/ac	ere	
	Seed	Mixtures	
Temp	porary	Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye	40	Swisher Meadow Mix	100
Field Bromegrass	40		
Winter Rye	168		
Winter Wheat	180		
	will be land applied, include dim area.	tion (unless engineered plans including th ensions (L x W x D) of the pit, and dimer	
Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application Photocopied section of involved Plan Approved by:	will be land applied, include dimarea. 17.5' topographic sheet.	ensions (L x W x D) of the pit, and dimer	nsions (L x W), an
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SITE SAFETY PLAN

Pritt South #206 WELL PAD

911 Address:

3460 Green Valley Road

Bridgeport, WV 26330

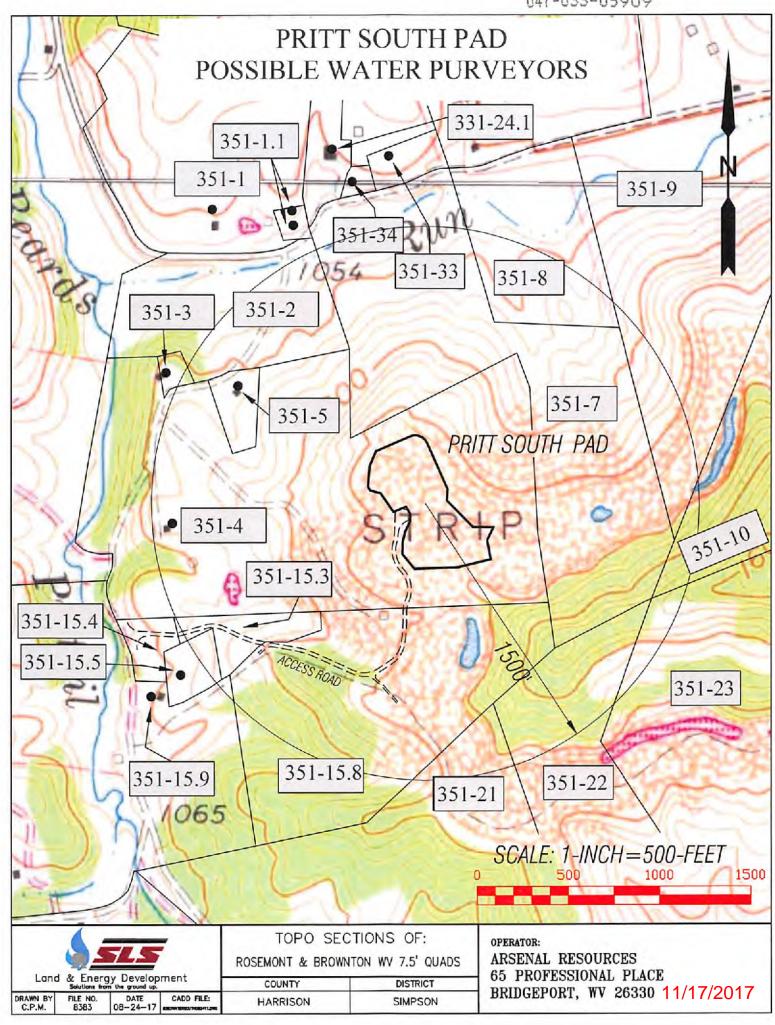
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VA/ Department of Environmental Frequesion

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WW-6A1 (5/13)

Operator's Well No.	Pritt South 206

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

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

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

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

* See Attached

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

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

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

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

Well Operator: Arsenal Resources

By: William Veigel

Its: Designated Agent

Page 1 of 10

CTU COLLAND Gas

	C-F				•
			AUS 2 1 2017	2017	017
	At	Attachment to WW-6A1, Pritt South 206			/2
Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	mont of Figure 800k/Page	Acreage 7
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 O. Carl Morris and Rachel L. Morris,	River Ridge Energy, LLC		59/1263	
B [Lease 00004364 (WVL00561.000)]	his wife; William T. Morris and Willa R. Morris, his wife; Mary Morris Warder and Willis E. Warder, her	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 [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 James R. Collins, Jr.	Mar Key, LLC	15.00%	1561/490	85
D [Lease 00006697]	Gale M. Steele, widow	Mar Key, LLC	15.00%	1568/76	85
D [Lease 00007736]	Marlene B. Steele, widow, by David E. Bowen and Cheryl L. Bowen, as Attorney-in-Fact	Mar Key, LLC	15.00%	1585/239	85

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[Lease 00007761]	George F. Jack, Jr., Single	iviar key, LLC	15.00%	1598/842	85.13/5
D [Lease 00007766]	Charles H. Roberts, widower	Mar Key, LLC	15.00%	1596/493	85.1375
D [Lease 00007864]	Mike Ross Inc. & Waco Oil and Gas Inc.	Mar Key, LLC	15.00%	1599/315	85.1375
E, F [Lease 00003555 (WVL00103.000)]	Lydia Drainer, widow	Union Carbide Corporation	12.50%	853/91	380
	Union Carbide Corporation	Creslenn Oil Company		897/286	
	Creslenn Oil Company	Delta Producing Corporation		925/629	
	Delta Producing Corporation	Petroleum Corporation of America		967/575 977/168	
	Petroleum Corporation of America	Petroleum Development Corporation		977/153	
	Petroleum Development Corporation	PDC Mountaineer, LLC		1440/364	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
G [Lease 00003907 (WVL00332.000)]	Michal Stein, Trustee for Linda Waldman and Robert S. Stein	Petroleum Development Corporation	12.50%	110/258	70
	Petroleum Development Corporation	PDC Mountaineer, LLC		150/444	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		17/228	

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West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

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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

Organization Information								
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
LLC Limited Liability Company	7/11/2011		7/11/2011	Domestic	Profit			

Business	2111 - Mining, Quarrying, Oil &	0	
Purpose	Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction	Capital Stock	
Charter		Control	99Q1F
County		Number	
Charter State	w	Excess Acres	
At Will		Member	
Term	A	Managed	MBR
At Will			
Term		Par Value	
Years			

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Authorized Shares	AUG 9 1 2017
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Addresses	•	
Туре	Address	
Designated Office Address	65 PROFESSIONAL PLACE SUITE 200 BRIDGEPORT, WV, 26330	
Mailing Address	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA	
Notice of Process Address	CORPORATION SERVICE COMPANY 209 WEST WASHINGTON STREET CHARLESTON, WV, 25302	
Principal Office Address	6031 WALLACE ROAD EXTENSION SUITE 300 WEXFORD, PA, 15090 USA	
/ре	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	_		
уре	Name/Address			

Annual Reports	
Date filed	
	11//

Page 3 of 3

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

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

Thursday, February 23, 2017 — 9:08 AM

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Office Consultations
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Agreement to Drill, Complete and Operate Oil & Gas Wells

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Arsenal Resources LLC, a West Virginia limited liability company ("Arsenal"), River Ridge Energy, LLC, a Delaware limited liability company ("River Ridge 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]

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

ARSENAL RESOURCES LLC

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: Icel E Symonds

Title: Vice President - Land

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Agreement to Drill, Complete and Operate Oil & Gas Wells

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

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

[Signature Page Follows]

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

MOUNTAINEER KEYSTONE LLC

Name: 264-1 Keel

Title: CEO

PDC MOUNTAINEER, LLC

Name: Plat Kal

Title: Co

PDC MOUNTAINEER HOLDINGS, LLC

Name: ELLE K-/

Title: Co

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People Powered. Asset Strong.

May 18, 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

Mr. Martin:

In preparation of filing a permit application for the above referenced well, the Title Department of Arsenal Resources has conducted a thorough title examination in order to determine the ownership of the oil and gas underlying all roadways crossed by the proposed wells. The findings of the title examinations show that the roadways crossed by the proposed wells are right of ways, with the oil and gas being owned and covered by the leaseholds identified on the plat for the proposed wells.

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

Office of On and Cas

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Environmental research

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 Noti	ce Certification: 8-29-17	API No. 47- 03	3 -	
		Operator's We		South 206
		Well Pad Name	e: Pritt Sou	th
	ne provisions in West Virginia Code §	22-6A, the Operator has provided the require	d parties w	rith the Notice Forms listed
State:	tract of land as follows: West Virginia	Costing: 570	,146.2	
County:	Harrison	ITM NAD 83	14,372.2	
District:	Simpson		County Route 17	
Quadrangle:	Brownton	Generally used farm name: Ira F		
Watershed:	Beards Run & Pigtail Run	Generally used harm manie		
information r of giving the requirements Virginia Cod of this article	equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall to have been completed by the applican	erator has attached proof to this Notice Certifi	ement was of this artic surface ow the notice	deemed satisfied as a resul cle six-a; or (iii) the notice oner; and Pursuant to Wes
*PLEASE CH	ECK ALL THAT APPLY			ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or NO PLAT SURVEY WAS COND	UCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	□ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	(Contract)	19	RECEIVED
		CURE CLOW MICE GES	and Gas	RECEIVED
5. PU	BLIC NOTICE	Alto Dis com		L RECEIVED
■ 6 NO	TICE OF APPLICATION	AUS 9 1 2617		RECEIVED
- 6. NO	TICE OF APPLICATION	VALTATION OF ME		LI RECEIVED

Required Attachments:

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

By:

Its:

Certification of Notice is hereby given:

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

Well Operator: Arsenal Resources

Arsenal Resources
William Veigel

Designated Agent

Telephone: 724-940-1218

Address:

6031 Wallace Road Extension, Suite 300

Wexford, PA 15090

Facsimile: 304-848-9134

Email: keddy@arsenalresources.com

NOTARY SEAL

NOTARY PUBLIC OFFICIAL SEAL
STATE OF WEST VIRGINIA
KELLY A. EDDY
RT 2 BOX 225A
JANE LEW, WV 26378
LY COMMISSION EXPIRES SEPT. 18, 2018

Subscribed and sworn before me this 29th day of August

Notary Public

My Commission Expires September 18, 2018

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 deepprivacyofficer@wv.gov.

AUG 3 1 2017

API NO. 47- 033

OPERATOR WELL NO. Pritt South 206

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: 8-29-17 Date Permit Application Filed: 8-30-17 Notice of: PERMIT FOR ANY ☑ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL. REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the crosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: See Attached List Name: Ira H. Pritt & Laura E. Pritt Address: 3444 Green Valley Road Address: Bridgeport, WV 26330 COAL OPERATOR Name: Name: Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) ☑ SURFACE OWNER OF WATER WELL Name: See Attached List AND/OR WATER PURVEYOR(s) Address: Name: See Attached List Address: Name: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☑ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Oran Lee Warder Address: 2381 Silverado Drive *Please attach additional forms if necessary Weatherford, TX 76087



A.3.11.207.

047-033-05909

API NO. 47- 033

OPERATOR WELL NO. Pritt South 206.

Well Pad Name: Pritt South

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending 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 206

Well Pad Name: Pritt South

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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VM Describeration of Environment at 1 resolution

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 206

Well Pad Name: Pritt South

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A (8-13)

API NO. 47-033 OPERATOR WELL NO. Pritt South 206

Well Pad Name: Pritt South

Notice is hereby given by:

Well Operator: Arsenal Resources Telephone: 724-940-1218

Email: keddy@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.

NOTARY PUBLIC OFFICIAL SEAL STATE OF WEST VIRGINIA KELLY A. EDDY RT 2 BOX 225A JANE LEW, WV 26378 COMMISSION EXPIRES SEPT. 18, 2018

Subscribed and sworn before me this 29th day of August 2017.

Kelly a. Eddy Notary Public

My Commission Expires September 18, 2018

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

<u>Surface Owner(s) by (Road and/or Other Disturbance):</u>

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 16th Street Wheeling, WV 26003

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

Edith Gans Burns 264 South Lake Road Columbia, SC 29223

Omes Unchanders
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Entre the contact of the

Coal Owner, Operator or Lessee, continued:

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

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

Spartan Exploration Company

P.O. Box 316

Mt. Pleasant, MI 48858

Ryan C. Radtka / 205 Mystic Drive Morgantown, WV 26508

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

CoalQuest Development, LLC 100 Tygart Drive Grafton, WV 26354

Water Purveyors:

Kevin McNemar 1048 Indiana Ave. Stonewood, WV 26301

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

Ira & Laura Pritt 3444 Green Valley Road Bridgeport, WV 26330 ometric and ensign AUG SI 2017

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Environment Chan

Water Purveyors, continued:

Oran Warder etal 2381 Silverado Drive Weatherford, TX 76087

Renee Johnson 511 Beards Run Road Bridgeport, WV 26330

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

Julia Crim
75 Crim Lane
Bridgeport, WV 26330

Sandy Crim
75 Crim Lane
Bridgeport, WV 26330

Della R. Riffle

11 Crim Lane
Bridgeport, WV 26330

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

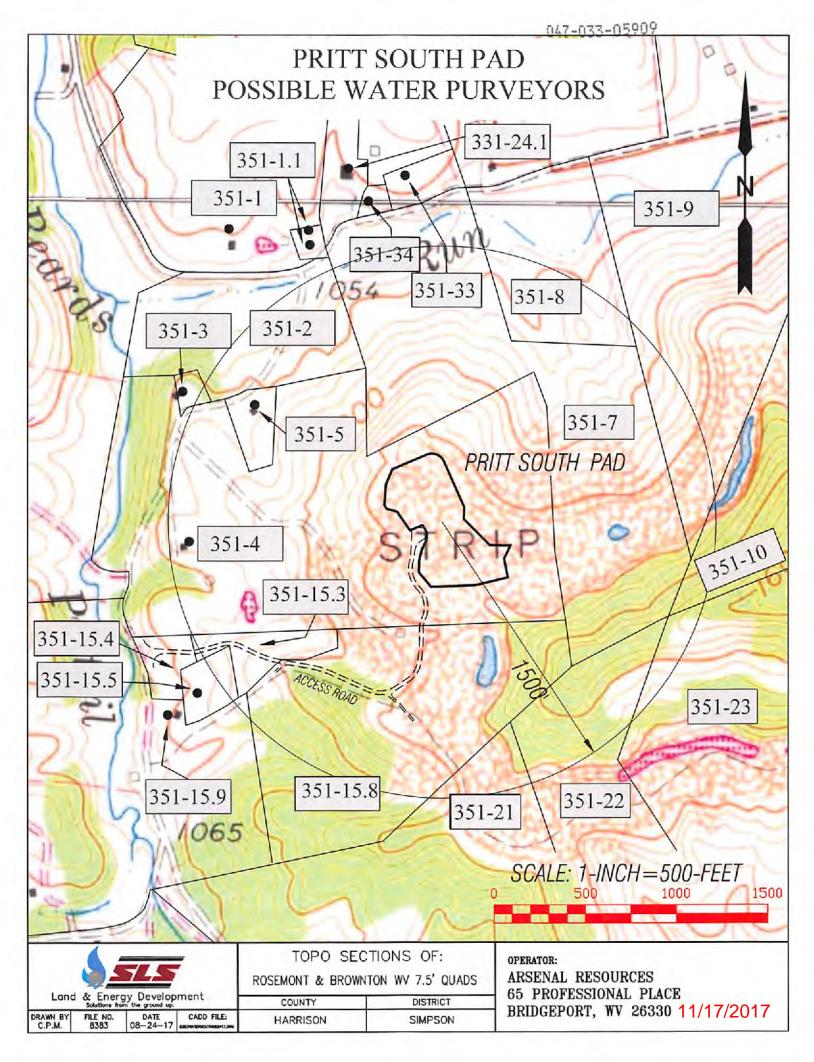
John & Cynthia Snider 95 Beards Run Road Bridgeport, WV 26330

Joyce Bailey etal PO Box 4 Rosemont, WV 26424

Joshua Thompson 143 Beards Run Road Bridgeport, WV 26330 Office Country Cos

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Part Description of Control Control





Possible Water Purveyors within 1500' of Pritt South Pad

351-1

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

351-1.1

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

351-2

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

351-3

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

351-4

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

351-5

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

351-7 Oran Warder etal 2381 Silverado Drive Weatherford, TX 76087

351-8

Oran Warder etal 2381 Silverado Drive Weatherford, TX 76087

351-9

Renee Johnson 511 Beards Run Road Bridgeport, WV 26330

351-10

Renee Johnson 511 Beards Run Road Bridgeport, WV 26330

351-15

Ronald & Jody Crim 2825 Green Valley Rd. Bridgeport, WV 26330

PECEL/ED Office of Cil and Gas

AUG 3 1 2017

V.V Decartment 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 of Oil and Gas

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

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WW-6A4 (1/12) Operator Well No. Pritt South 206

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.

	Requirement: Notice shall be provided at le e: 8-29-17 Date Perm	east TEN (10) days prior to filing a hit Application Filed: _ \$ - 30 -	permit application. 77 — Once Mark Control Casa
Delivery meth	nod pursuant to West Virginia Code § 22	-6A-16(b)	AUG 31 2017
HAND DELIVE	CERTIFIED MAIL RY RETURN RECEIPT REQU	JESTED	Environment of
receipt request drilling a horiz of this subsect subsection ma and if available	. Va. Code § 22-6A-16(b), at least ten days ed or hand delivery, give the surface owner contal well: <i>Provided</i> . That notice given prion as of the date the notice was provided to be waived in writing by the surface owner, facsimile number and electronic mail addreby provided to the SURFACE OWN	r notice of its intent to enter upon the ursuant to subsection (a), section to the surface owner: <i>Provided, hower.</i> The notice, if required, shall includes of the operator and the operator	ne surface owner's land for the purpose of n of this article satisfies the requirements never, That the notice requirements of this add the name, address, telephone number,
Name: Ira H. Pritt		Name:	
Address: 3444		Address:	/
Bridgeport, WV 26	330		
Pursuant to West Virginia Code § 22-6A-16(b), notice is he the surface owner's land for the purpose of drilling a horizor State: West Virginia County: Harrison		Facting	Hows: 570,146.2
	Harrison	Northing:	4,344,372.2
District:	Harrison Simpson	Public Road Access:	4,344,372.2 County Route 17
	Harrison	Northing:	4,344,372.2
District: Quadrangle: Watershed: This Notice: Pursuant to W facsimile num related to hori	Harrison Simpson Brownton	Public Road Access: Generally used farm name: otice shall include the name, addrerator and the operator's authorize Secretary, at the WV Department o	4,344,372.2 County Route 17 Ira Pritt ess, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters,
District: Quadrangle: Watershed: This Notice ! Pursuant to W facsimile num related to hori located at 601 Notice is her	Harrison Simpson Brownton Beards Run & Pigtail Run Shall Include: /est Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the op zontal drilling may be obtained from the S 57th Street, SE, Charleston, WV 25304 (30 eby given by:	Public Road Access: Generally used farm name: otice shall include the name, addrerator and the operator's authorize Secretary, at the WV Department of 14-926-0450) or by visiting www.de	ess, telephone number, and if available, de representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
District: Quadrangle: Watershed: This Notice ! Pursuant to W facsimile num related to hori located at 601 Notice is her Well Operator	Harrison Simpson Brownton Beards Run & Pigtail Run Shall Include: Vest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the op zontal drilling may be obtained from the S 57 th Street, SE, Charleston, WV 25304 (30)	Public Road Access: Generally used farm name: otice shall include the name, addrerator and the operator's authorized Secretary, at the WV Department of 14-926-0450) or by visiting www.de	4,344,372.2 County Route 17 Ira Pritt ess, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters,
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District: Quadrangle: Watershed: This Notice of Pursuant to We facsimile num related to horilocated at 601 Notice is her Well Operator Address: Wexford, PA 1509 Telephone:	Harrison Simpson Brownton Beards Run & Pigtail Run Shall Include: /est Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the opt zontal drilling may be obtained from the S 57th Street, SE, Charleston, WV 25304 (30 eby given by: Arsenal Resources 6031 Wallace Road Extension, Suite 300	Public Road Access: Generally used farm name: otice shall include the name, addrerator and the operator's authorized Secretary, at the WV Department of 14-926-0450) or by visiting www.de Authorized Representative: Address: Bridgeport, WV 26330 Telephone:	4,344,372.2 County Route 17 Ira Pritt ess, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx. William Veigel
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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 deprivacyofficer@wv.gov.

WW-6A5 (1/12) Operator Well No. Pritt South 206

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

Date of Notice	ce: 8-29-17 Date Per	mit Application Filed:	0 30-11		Office or Commit Gas
Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)			AUG 0 1 2017
	FIED MAIL RN RECEIPT REQUESTED	☐ HAND DELIVERY			PARTICIPATION OF TOURSELION
return receipt the planned of required to be drilling of a damages to the	W. Va. Code § 22-6A-16(c), no lat requested or hand delivery, give the operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A propose ne surface affected by oil and gas on es required by this section shall be	this subsection shall incluing this subsection shall incluing ten of this article to a surfed surface use and compensionaritions to the extent the data.	I will be used for de: (1) A copy ace owner whose sation agreement mages are comp	or the drilling of of this code sees see land will be un the containing an pensable under a	a horizontal well notice of ction; (2) The information sed in conjunction with the offer of compensation for article six-b of this chapter.
	eby provided to the SURFACE O				/
Name: Ira H. Pr	s listed in the records of the sheriff	at the time of notice): Name:			
I valifie, indicate	M. G. Debite E. T. Mi.	ivaliic.			
	Green Valley Road	Addres	e.		
Address: 3444 Bridgeport, WV 2	eby given:	Address		well operator ha	s developed a planned
Address: 3444 Bridgeport, WV 20 Notice is her Pursuant to W operation on State:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia	notice is hereby given that the	ne undersigned value on the tra	act of land as foll 570.146.2	
Address: 3444 Bridgeport, WV 20 Notice is her Pursuant to W operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Harrison	notice is hereby given that the rpose of drilling a horizonta	ne undersigned value well on the tra Easting: Northing:	act of land as foll 570,146.2 4,344,372.2	
Address: 3444 Bridgeport, WV 20 Notice is her Pursuant to W operation on State: County: District:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia	notice is hereby given that the rpose of drilling a horizonta UTM NAD 8 Public Road	ne undersigned valued on the tra Basting: Northing: Access:	act of land as foll 570.146.2	
Address: 3444 Bridgeport, WV 20 Notice is her Pursuant to W operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c), r the surface owner's land for the pu West Virginia Harrison Simpson	notice is hereby given that the rpose of drilling a horizonta UTM NAD 8 Public Road	ne undersigned value well on the tra Easting: Northing:	570,146,2 4,344,372,2 County Route 17	
Address: 3444 Bridgeport, WV 22 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information of	reby given: Vest Virginia Code § 22-6A-16(c), rebe surface owner's land for the put west Virginia Harrison Simpson Brownton Beards Run & Pigtail Run Shall Include: Vest Virginia Code § 22-6A-16(c), red by W. Va. Code § 22-6A-10(b) religion and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE,	notice is hereby given that the rpose of drilling a horizonta UTM NAD 8 Public Road Generally use this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are contained from the Secret	ne undersigned of well on the tra 3 Easting: Northing: Access: ed farm name: A copy of this e land will be undersigned and containing and compensable undersy, at the WV	act of land as follows to fland as follows to	The information required tion with the drilling of a ensation for damages to the of this chapter. Additional Environmental Protection
Address: 3444 Bridgeport, WV 22 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters,	reby given: Vest Virginia Code § 22-6A-16(c), resulting the surface owner's land for the purity of the surface owner's land surface owner's land (Shall Include: Vest Virginia Code § 22-6A-16(c), red by W. Va. Code § 22-6A-10(b) cell; and (3) A proposed surface use the land gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	notice is hereby given that the rpose of drilling a horizonta UTM NAD 8 Public Road Generally use this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are contained from the Secret	ne undersigned of well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be understand and many are the WV (304-926-0450)	act of land as follows to fland as follows to	The information required tion with the drilling of a ensation for damages to the of this chapter. Additional Environmental Protection
Address: 3444 Bridgeport, Wv 2 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	reby given: Vest Virginia Code § 22-6A-16(c), resulting the surface owner's land for the purity of the surface owner's land surface owner's land (Shall Include: Vest Virginia Code § 22-6A-16(c), red by W. Va. Code § 22-6A-10(b) cell; and (3) A proposed surface use the land gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	this notice shall include: (1) to a surface owner whose and compensation agreeme e extent the damages are cope obtained from the Secret Charleston, WV 25304	ne undersigned of well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be understand and many are the WV (304-926-0450)	act of land as follows. 570,146.2 4,344,372.2 County Route 17 Ira Pritt code section; (2 used in conjunct offer of competer article six-by Department of or by visiting	The information required tion with the drilling of a ensation for damages to the of this chapter. Additional Environmental Protection

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 deprivacyofficer@wv.gov.

WW-6AW (1-12)

T Mike Ross

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

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

State: County:	West Virginia Harrison	UTM NAD 8	Basting:	See Attached	
District:	Simoson	Northing: Public Road Access: Generally used farm name:		See Attached County Route 17	
Quadrangle:					
Vatershed:	Beards Run & Pigiali Run		many,		
ICESÉ CIICUS	the box that applies	F	OR EXECUTI	ION BY A NATURAL PERSON	
SURFACE OWNER		T P	OR EXECUTE	ON RY A NATTIRAL PEDSON	
		1			
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□ SURFAC □ SURFAC □ SURFAC	CE OWNER CE OWNER (Road and/or Other Disturbanc	se) SP	gnature: rint Name: ate:		
□ SURFAC □ SURFAC □ SURFAC	CE OWNER CE OWNER (Road and/or Other Disturbanc CE OWNER (Impoundments/Pits) WWNER OR LESSEE	Si Pi Di C Bi	gnature: rint Name: ate:	Office of Con By A Corporation, ETC. P	
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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-6AW (1-12)

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

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

provisions its WW-6A and required, and State: County: District: Quadrangle: Watershed:	hereby state that I have read ted above, and that I have received copies of a attachments consisting of pages one (1) throw the well plat, all for proposed well work on the west vergina Herison Simpson Rownton Beards Run & Pigtat Run that I have no objection to the planned work design attachments.	Notice of Apugh	plication, an Ap, including s follows: B3 Easting: Northing: Access: ed farm name:	plication for a Well Work Permit on Form the erosion and sediment control plan, if See Attached See Attached County Route 17 ta Prits
*Please check	the box that applies] 1	FOR EXECUT	ON BY A NATURAL PERSON
□ SURFAC	E OWNER		Signature: /-	sere- Bailet
☐ SURFAC	E OWNER (Road and/or Other Disturbance	e) 1	Print Name:	Loyce Bailey
□ SURFAC	E OWNER (Impoundments/Pits)		Date: <u>4/4</u>	/ N
COAL O	WNER OR LESSEE		F OR EXECUTI Company:	ON BY A CORPORATION, ETC.
☐ COAL OF	PERATOR	Į I	By: ts:	
■ WATER	PURVEYOR	j	()	ger Bailey GED Oil and Gas
OPERAT	OR OF ANY NATURAL GAS STORAGE		Signature: Joseph Date: 9/5/	18 2017
Oil and Gas P. The Office of C	rivacy Notice: Dil and Gas processes your personal information	n, such as nam	e, address and te	Environmental ment of

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.



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

October 31, 2017

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

Subject: DOH Permit for the Ira Pritt Well Pad, Harrison County
Pritt South 206

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.

Lan K. Clayton

Regional Maintenance Engineer

Cc: Kelly Davis

ARSENAL Resources

CH, OM, D-4

File

Pritt South 206				
FRACTURING ADDITIVES				
	PURPOSE	TRADE NAME	CAS#	
Additive #1:	Friction Reducer	WFRA-405	Proprietary	
Additive #2:	Scale Inhibitor	SI-1000	7440-21-3	
Additive #3:	Biocide	BIOCLEAR 2000	25314-61-8	
Additive #4:	Gelling Agent	LGC-15	9000-30-0	
Additive #5:	Corrosion Inhibitor	AI-300	111-76-2	
Additive #6:	Gel Breaker	AP-One	7727-54-0	
Additive #7:	Acid	HCI - 7.5%	7647-01-0	

EFORMED Office of Olivated Gas

AUG 3 1 2017

PRITT SOUTH SITE PLAN ARSENAL RESOURCES

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

(NAD 83)

-80.185800

LONGITUDE:

CENTER OF PRITT SOUTH WELL PAD

-80.192380 (NAD 83)

LONGITUDE

ACCESS ROAD ENTRANCE

LATITUDE: 39.241841

(NAD 83)

-80,185139

LONGITUDE:

TANK

CENTER OF ABOVEGROUND STORAGE LATITUDE: 39.244714 LATITUDE: 39.245319 SITUATE ON THE WATERS OF BEARDS RUN AND PIGTAIL RUN IN SIMPSON DISTRICT, HARRISON COUNTY, WEST VIRGINIA



2502 CRANBERRY SOUARE

4.19 AC

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

LARSON DESIGN GROUP

ENGINEER

TOTAL PROPERTY AREA: 31 AC

JULIA CRIM TN 351 PAR 15.8

MORGANTOWN, WV 26508 PHONE: (304) 777-2940

SURVEYOR

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

65 PROFESSIONAL PLACE

SUITE 200

47.40 AC 5.49 AC

TM 351 PAR 7
TOTAL PROPERTY AREA: 1
TOTAL DISTURBED AREA:

ORAN WARDER

ARSENAL RESOURCES

DPERATOR

IRA PRITT TM 351 PAR 4 TOTAL PROPERTY AREA: 69.05 AC TOTAL DISTURBED AREA: 14.57 AC

MAP 351 PARCELS 4, 7, 15, 15.3, 15.5

SURFACE OWNER:

SIMPSON DISTRICT

PROJECT NAME: PRITT SOUTH PROJECT INFORMATION

TAX PARCEL:

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

ARSENAL RESOURCES 55 Professional Place Bridgepert, WY 26.230 PHONE 304 842,3597

GENERAL DESCRIPTION
THE WELL PAD, ASSOCIATED PIT, AND ABOVEGROUND STORAGE TANK ARE BENG CONSTRUCTED TO AID IN THE DEVALOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

AC

STE DISTURBANCE COMPUTATIONS
PRINT SOUTH WELL PAD = 9.15 AG
ABOVEGROUND STORAGE TANK PAD = 3.33
ASSOCIATED WISTE WITHER PIT = 4.98 AG
ACCESS FOAD TO WELL PADS = 10.67 AG

ACCESS ROAD TO AST / PIT = 1.65 ACTOTAL SITE DISTURBANCE = 29.78 ACTOTAL

TIMBER CLEARING AREA = 15.30 AC

ENTRANCE PERMIT

ARSENAL R MM-109) F DIVISION OI ACTIVITIES.

(NAD 83)

-80.183541

LONG/TUDE:

LATITUDE: 39.245265

CENTER OF ASSOCIATED WASTE WATER PIT

BROWNTON CUADRANGLE WEST VIRGINIA SCALE: 1" = 2000

PHONE: (304) 462-5534

GLENVILLE, WV 26351 12 VANHORN DRIVE

MISS Utility or West Vinginio 1–1800–245–4648 West Vinginio State Low (Seedion 2NV Charlet 24–C) Requires that you call two business dos before you dig in the state of West Vinginio. ITS THE LAWII.



6/2/2017 26

RESTRICTIONS NOTES.

1 THERE ARE NO WETLANDS WITHIN 100 FEET OF THE WELL PAD LOD.

L. NERG ARG NO WELLANDS WITHIN 100 FEET OF THE WELL PAD LOD.

2. THERE ARG NO PREFERENAL, STREAGAS, LAKES, POUGS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD LOD.

3. THERE ARE NO BATURALLY PRODUCING TROUT STREAGAS WITHIN 200 FEET OF THE WELL PAD LOD.

4. THERE ARE NO BATURALLY PRODUCING TROUT STREAGAS WITHIN 1000 FEET OF THE WELL PAD AND LOD.

5. THERE ARE NO ARGURD WARLING WATER WILLS OR DEVALORED STRINGS WITHIN 200 FEET OF THE WELL PAD.

6. THERE ARE NO ACCUPIED DIRELLING STRUCTURES WITHIN 625 FEET OF THE WELL PAD.

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

A GEOTECHNICAL INVESTIGATION OF THE PROPOSED STIE WAS CONDUCTED BY CA. COVEY ENGINEERING ON JULY 17 THROUGH JULY 20, 2012. THE REPORT PREPARED BY GA. COVEY ENGINEERING, DATED JULY 2012 RETLECTS THE RESULTS OF THE SUBSURACE INVESTIGATION. THE INFORMATION AND PREPARATION OF THE SUBSURACE IN THIS REPORT WAS USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION OF THESE PLANS.

1 OF 37 10793-005 CM 1335

BHOME 301 482 8924 | IVX 1.24 1.16 2014 - #.w.m. face condesidation to condesidate from the set of

HARRISON COUNTY, WEST VIRIGINA

MISS_UTILITY STATEMENT MISS_UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN: TICKET #150819364 IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS NOT LOCATED WITHIN THE EMSTITUME FEMA 100-YEAR TOODELAIN. NO FEMA MAP EXISTS FOR THIS LOCATION IN HARRISON COUNTY.

FLOODPLAIN NOTE

ENCROACHMENT PERMIT (FORM PARTMENT OF TRANSPORTATION MENCEMENT OF CONSTRUCTION

RESOURCES WILL OBTAIN AN ENCROACHMENT FROM THE WEST VIRIGINIA DEPARTMENT OF OF HIGHWAYS, PRIOR TO COMMENCEMENT C

S Energy Development ENMEDIATE NOTES
WELLAND DELUKEATIONS WERE PERFORMED ON MARCH 17, 2015, WARCH 11, 2015, APRU B. 2015, APRUB B. 20

WASTE WATER PIT CROSS SECTIONS ACCESS ROAD CROSS SECTIONS

RECLAMATION PLAN

DETAILS

WELL PAD CROSS SECTIONS

ACCESS ROAD PROFILE

10-14 19-20 21-24 15-18

SITE LAYOUT

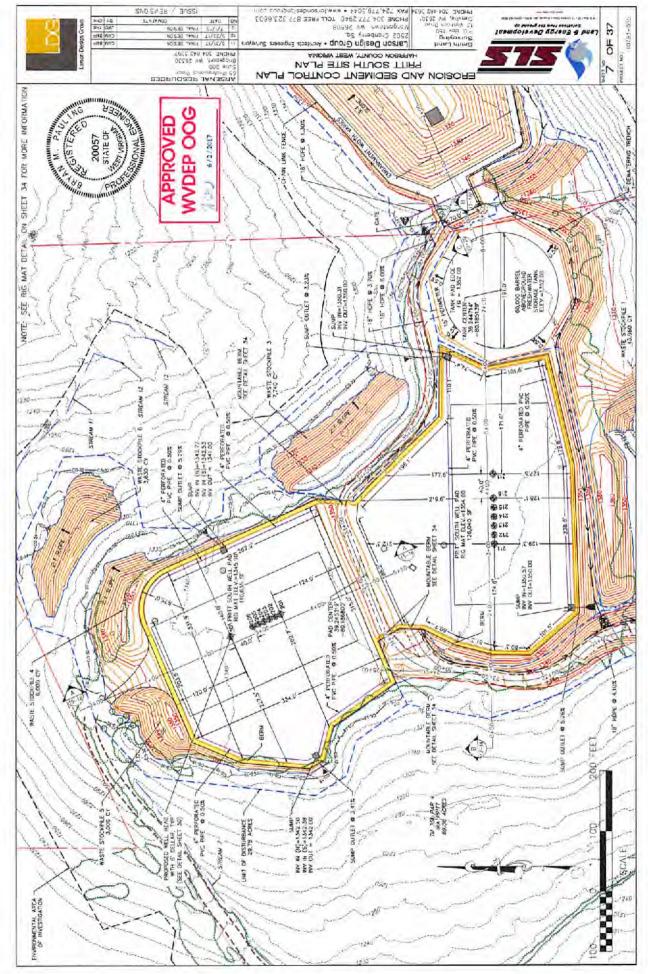
5-8

OVERALL PLAN SHEET INDEX

GENERAL NOTES COVER SHEET

SHEET INDEX

11/17/2017







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: 8-3)- 7
Assigned Impoundment ID#: 033WPA 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	Conta	act Title:	Regulatory Afr	fairs Manager
Contact Phone:	304-629-6309	Contac	ct Email:	ecarder@arser	nalresources.com

Section 2 - Engineering / Design Contractor Information

Company Name:	Smith Land Surveying, Inc. & La	arson Design Grou	р
Address: Street	12 Vanhorn Dr.		
City:	Glenville	State: wv	Zip: 26351
Contact Name: Chris Moyers		Contact Title: Sr. Design Coordinator	
Contact Phone:	Contact Phone: 304-462-5634		cmoyers@slssurveys.com
Certifying Professional E	ngineer: Bryan Pauling		
Professional Engineer F	Registration Number: 20057		

Office of Clubul Cas AUG S 1 2017





Office of Oil and Gas

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 Na	me :) _Pr	itt South Associated Pi	t		
County: Harrison		District:	Simpson		
USGS 7.5' Quad Map Name: _E	Brownton				
Farm Name: Pritt		_			
Pad Name: Pritt South Pad					
Surface Owner Name: Oran Wa	rder & Ira F	Pritt			
Physical Description of Location:	The Pritt S	South Associated Pit is locat	ed the east side o	of Harrison County F	Route 77/6 near the ridge.
With the access road entrance being	0.28 mile	s +/- north of the junction	n of County Ro	utes 77/6 & 23/4.	
(Note: Give general location, example: 2 r	niles south o	of Smalltown, WV on Rt. 22,	left on Buffalo Cre	eek)	
Watershed (nearest perennial):	Beards F	Run			
Distance (Drainage Distance) to r	nearest pe	erennial stream: 1400)'+/-		
Location Coordinates (NAD83, De	ecimal De	grees (xx.xxxx, -xx.xxx	x))		
Latitude: 39.245265	Longit	ude (Use negative sig	n): <u>-80.1835</u>	41	
UTM Coordinates : 570454		E 434	4312		N
Access Road Coordinates (junction	on of state	highway access)			
Latitude: 39.243282	Longi	itude (Use negative sig	gn): <u>-</u> 80.1924	159	
UTM Coordinates : 56968	7	E 434	14085		N
Approximate Dimensions					
Length: 612' +/-	TTIGUI.	200' +/-	_ Height: _3	2.9	
Note: If irregularly shaped, give approxima	ate dimensio	ns of long axis.	_		
Total Capacity - Provide all units	of measu	re below:			
Barrels: 387,574	Gallons:	16,278,095	_ Acre-Feet:	49.96	
			_		
Capacity with 2' Freeboad - Prov	ide all uni	ts of measure below:			
Barrels: 340,964	Gallons:	14,320,480	Acre-Feet:	43.95	
			_		
Incised volume:					
Barrels: 39,572	Gallons:	1,662,011	Acre-Feet:	5.10	
***************************************			_		
Net impounded volume: (Total vo	lume less	incised volume.)			
Barrels: 348,002	Gallons:	14,616,084	Acre-Feet:	44.86	
			_	-	
Anticipated Construction Start Da	te (estima	ition, non-binding):	lune 2017		
Note: No construction may begin	on Assoc	ioated impoundment u			
calendar days prior to confirmed					
inspector of construction start dat	e. Use tor	m INP-2, Notification	or impounam	ent / Pit Constru	CHON.

CENTROPE COMO

Page 2 of 4

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

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

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

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

Section 6 - Dam Standard Qualifying Evaluation

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

Section 7 -Comments - Provide any additional comments concerning this project		
Office of Color of Cos		
AUG 8 1 20:7		
VOCCESS of post of Environment in the Lution		



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:	Born Paling	
Title:	Diescha	
Signature:	The same of the sa	
Taken, subscribe	d and swarn to before me this, 10th pay of 1/ay 20 17	
Notary Public:	Luden a. Campbul	
My commission e	xpires: 4/18/2/	
Notary Seal:		
	COMMONWEALTH OF PENNSYLVANIA	
	NOTARIAL SEAL Kristen Ann Campbell, Notary Public	
	Armstrong Twp., Lycoming County My Commission Expires April 18, 2021	
	MEMBER PENNSYLVANIA ASSOCIATION OF NOTARIES	

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 57th Street, SE
Charleston WW 25304

Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : Depimpoundments@wv.gov Office in Oil and Gas

AUG 3 1 2017

VIV Department of Environment and I resuction

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

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

API Numbers

Pritt 215

Pritt 216

Pritt 217

Pritt 311

Not Yet Assigned by the WV DEP

Office of County of Environment of Environment of County of County