

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

Monday, October 02, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

ARSENAL RESOURCES LLC 6031 WALLACE ROAD EXTENSION SUITE 300

WEXFORD, PA 15090

Re:

Permit approval for VELTRI 1HM

47-091-01338-00-00

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: VELTRI 1HM Farm Name: VELTRI, ANTHONY

U.S. WELL NUMBER: 47-091-01338-00-00

Horizontal 6A / New Drill

Date Issued: 10/2/2017

Promoting a healthy environment.

API Number:	

PERMIT CONDITIONS 0 9 1 0 1 - * .

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. 4709991338

CONDITIONS

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

API Number:	
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PERMIT CONDITIONS 9 9 1 4 3 3 8

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	
OPERATOR WELL NO.	Veltri 1HM
Well Pad Name: Veltri	

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

1) Well Operator: Arsenal Resources	494519412	Taylor	Courthou	Grafton
-	Operator ID	County	District	Quadrangle
2) Operator's Well Number: Veltri 1HM	Well Pa	ad Name: Velt	ri	
3) Farm Name/Surface Owner: Anthony Velta	ri Public Ro	ad Access: C	R's 119/28,	119/27, 13/6
4) Elevation, current ground: 1474	Elevation, proposed	l post-construc	tion: 1474	
5) Well Type (a) Gas X Oil Other	Uno	lerground Stor	rage	
(b)If Gas Shallow X	Deep			
Horizontal X				
6) Existing Pad: Yes or No Yes				
7) Proposed Target Formation(s), Depth(s), An Marcellus Shale, 7881 ft (Top)- 7968 ft (Bottom), 87 ft, 0.5 psi/ft	ticipated Thickness	and Expected	Pressure(s):	
8) Proposed Total Vertical Depth: 7954 ft		-		
	lus Shale			
10) Proposed Total Measured Depth: 15917	ft			
11) Proposed Horizontal Leg Length: 7562 ft				
12) Approximate Fresh Water Strata Depths:	550 ft			
13) Method to Determine Fresh Water Depths:14) Approximate Saltwater Depths: 2010 ft.	Offsetting wells reported	d water depths (091	-00825, 091-0082	26, 091-00967, 091-00991)
15) Approximate Coal Seam Depths: Approximate Coal Seam	m Depths: Harlem – 420, Bakerstown – 503°, Brush C	Creck - 598', Upper Freeport - 673', Lo	wer Freeport – 720', Upper Kittannin	ng – 760°, Middle Kittanning – 818°, Lower Kittanning – 8
16) Approximate Depth to Possible Void (coal				_
17) Does Proposed well location contain coal s directly overlying or adjacent to an active mine	eams		None kno	own
(a) If Yes, provide Mine Info: Name:				
Depth:				
Seam:				
Owner:				

WW-6B	
(04/15)	

API NO. 47-091 -			
OPERATOR WELL	NO.	Veltri 1HM	
Well Pad Name:	Veitri		

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#	630'	630'	CTS
Coal							
Intermediate	9.625"	New	J-55	40#	2700'	2700'	CTS
Production	5.5"	New	P-110	20#	15,917'	15,917'	TOC @ 2,550'MD
Tubing							
Liners							

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TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24°	36"			0	Classo /., 3% Codekson	1.20
Fresh Water	13.375"	17.5°	0.38"	2730	0	Class A, 3% CaCl2	1.20
Coal					0		
Intermediate	9.625"	12.25°	0.395"	3950psi	0	Class A, 2% CeCl2	1.29
Production	5.5"	8.5-8.75	0.361"	12,640psi	9500	Class A	1.64/1.32
Tubing					5000		
Liners					N/A		

PACKERS

Kind:		
Sizes:		
Depths Set:		
	.	

WW-6E	3
(10/14)	Ì

API NO. 47	
OPERATOR WELL NO.	Veltri 1HM
Well Pad Name: Veltri	

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

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and grout cement back to surface. The conductor rig will move out and the drilling rig will move in and rig up. The drilling rig will then spud a 17 ½" hole and drill to fresh water casing (Surface) to the programmed depth, Run 13- 3/8" casing and cement to surface. The rig will continue drilling a 12- ¼" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig with then continue to drill an 8- ¾" hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 ½" casing and cement according to the program.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The well will be completed using a plug and perforation method and stimulated with a slickwater and sand slurry. The anticipated maximum rate will be 90 bpm and the maximum pressure will be 9,500 psi.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.4
- 22) Area to be disturbed for well pad only, less access road (acres): 3.36
- 23) Describe centralizer placement for each casing string:

20"- 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 2,700'; there will be no centralizers from 2,700 to surface.

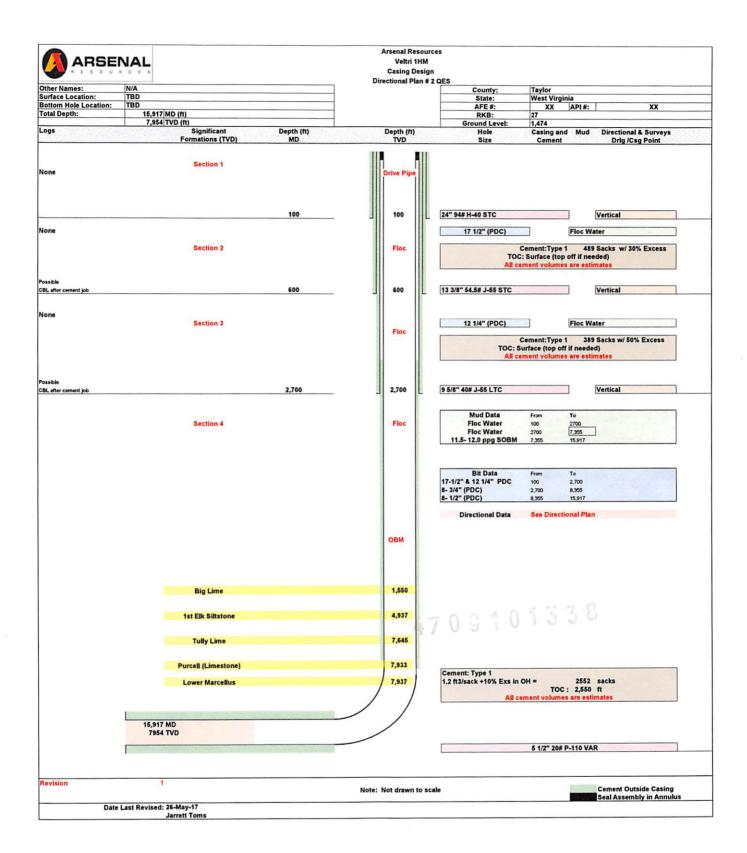
24) Describe all cement additives associated with each cement type:

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 2,450" (+/- 150" 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.





4709101336

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 Taylor County, WV prior to hydraulic fracturing at the following ARSENAL RESOURCES wells on the Veltri 1HM 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 8,000'TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Benson formation (approximately 4,500' TVD).

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

1. Communications with Conventional Operators.

ARSENAL RESOURCES, using available data (WV Geological Survey, WVDEP Website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in Attachment A. Upon approval of this plan, ARSENAL RESOURCES will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in Attachment B.

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

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

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



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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.

Area of Review Report - Veltri Pad, 1HM Lateral, Taylor County, WV

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		Producing Zones not Perforated	NA	NII NII	NA														
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	Longhide		-80.051729	-80.055088				-											
	Latitude	200000000	39.404933	39.270878															
	Well Type	Variables Culture	Ver ucal/Existing	Vertical/Existing															
A	Operator Name / Address	Alliance Detroloum Cornoration	America Landeniii col polanoii	Alliance Petroleum Corporation															
A Pet at	API Number	091-00134		091-00825			-												
Lifeli Manne	DATE WATER	Eldon/Lois Findley 2		uilla J Greathouse et al 1								Section of the last contract o	-						

API Number 47 -	091	<u>-</u>
Operator's	Well No.	Veltri 1HM

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Arsenal Resources OP Code 494519412
Watershed (HUC 10) Long Run Quadrangle Grafton
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? If so, describe: Yes, The closed loop system will contain all of the drilling medium and drill cuttings on location to than be taken to a landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Bentonite, Soap & Polymer sticks, Soda Ash, Sodium Bicarbonate, Defoamer, Base Oil, Emulsifiers, Lime, Barite
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)_N/A
-Landfill or offsite name/permit number? Advanced Disposal Services and Chestnut Valley Landfill
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official (Typed Name) William Veigel
Company Official Title Designated Agent
Subscribed and sworn before me this 30 TH day of MAY OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA CAROLINDA FLANAGAN PO BOX 603

Proposed Revegetation Treatm	nent: Acres Disturbed 14	l.4	Prevegetation pH 6.8	3 Average
Lime 4	Tons/acre or to correct	t to pH 6.0-7.5		
Fertilizer type 10-20	0-20			
Fertilizer amount 50	0	lbs/acre		
Mulch 2		Tons/acre		
		Seed Mixtures	0	
Tem	iporary		Permanent	
Seed Type	lbs/acre		Seed Type	lbs/acre
Annual Rye	40	Swish	er Meadow Mix	100
Field Bromegrass	40	_		
Winter Rye	168			
Winter Wheat	180			
Attach: Maps(s) of road, location, pit a provided). If water from the pi acreage, of the land application	t will be land applied, incl n area.	application (unless elude dimensions (L x	engineered plans including the W x D) of the pit, and dime	nis info have beer nsions (L x W), a
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by:	t will be land applied, incl n area. ed 7.5' topographic sheet.	lude dimensions (L x	W x D) of the pit, and dime	nsions (L x W), a
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Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Per regulation. Up necessary.	t will be land applied, incl n area. ed 7.5' topographic sheet. musch signal mulch all disturi	bed areas as	W x D) of the pit, and dime	bly possibl



SITE SAFETY PLAN 9 1 0 13 7 5

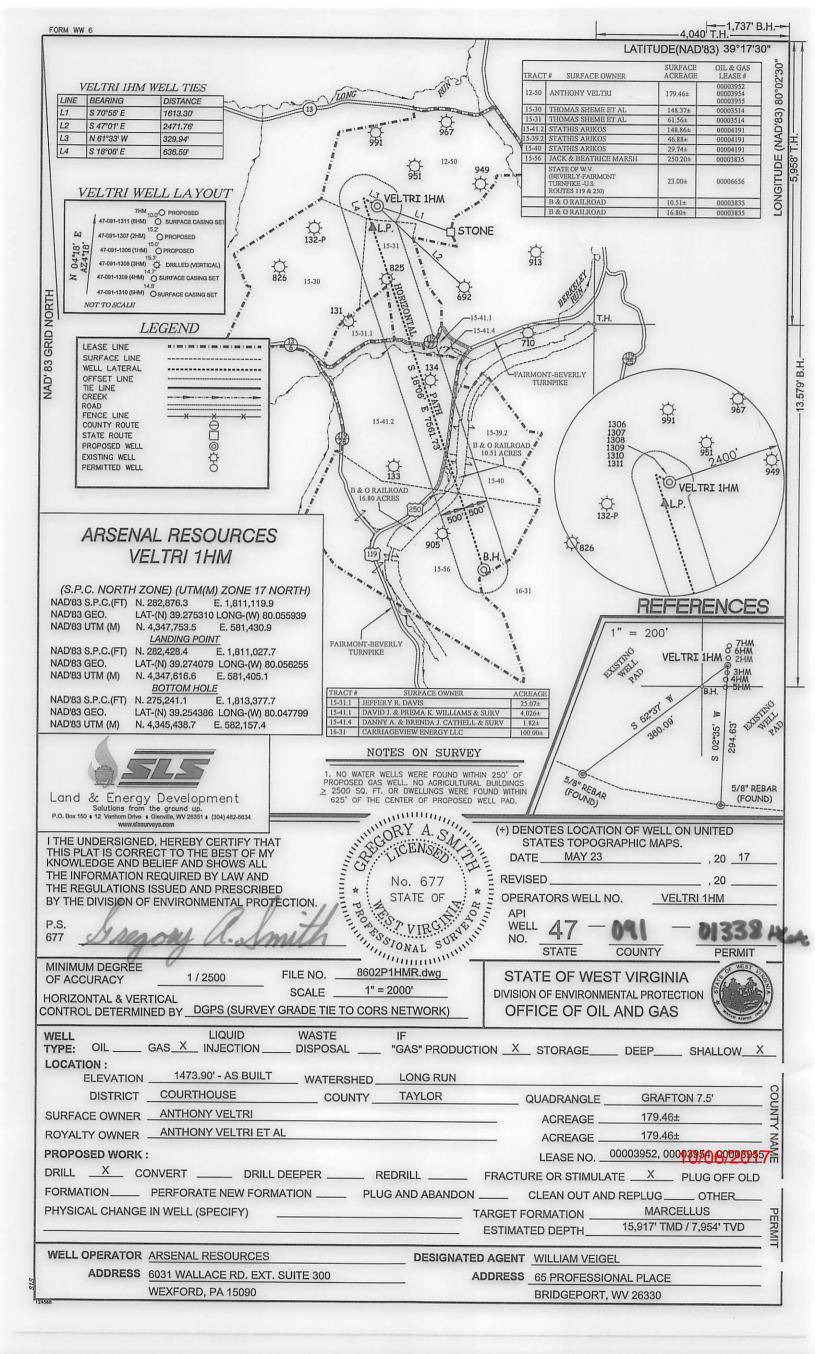
VELTRI 1HM WELL PAD

911 Address:

4728 Webster Pike

Grafton, WV 26354

Lound 1. Shayorch 5-25-17



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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

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Book/Page

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

Attachment to WW-6A1, Veltri 1HM

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Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
00003952	Dorsey C. Setler and Maude S. Setler, his wife	Petroleum Development Corporation	0.125	42/264 43/351 44/332 45/613 46/579 48/367	240
	Petroleum Development Corporation	PDC Mountaineer, LLC		30/698	
	PDC Mountaineer, LLC	River Ridge Energy, LLC			
00003954		Petroleum Development Corporation	0.125	41/605 43/264 44/364 45/656 46/666 62/574 48/639	40.86
i	Petroleum Development Corporation	PDC Mountaineer, LLC		30/698	
	PDC Mountaineer, LLC	River Ridge Energy, LLC			
00003955	Anthony J. and Geraldine M. Veltri	Petroleum Development Corporation	0.125	41/164 43/262 44/366 45/654 46/664 62/572 48/637 49/263	137
	Petroleum Development Corporation	PDC Mountaineer, LLC		30/698	
	PDC Mountaineer, LLC	River Ridge Energy, LLC			

00003514	Haymond J. Nuzum, single; Zona V. Nuzum, widow; Gloria D. Short, divorced	Consolidated Gas Supply Corporation	0.125	33/274	505.88
	Adolphus T. Leach and Leona C. Leach, his wife; Haymond J. Nuzum, single, Gloria D. Short, divorced	Petroleum Development Corporation; Consolidated Gas Supply Corporation		34/89	
	Petroleum Development Corporation	single; Gloria D. Short, divorced		34/98	
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation		5/555	
	Consolidated Gas Transmission Corporation	CNG Development Company		6/443	
	CNG Development Company	CNG Producing			
	CNG Producing	Dominion Exploration and Production, Inc.		6 C	· · · · · · · · · · · · · · · · · · ·
	Dominion Exploration and Production, Inc.	Consol Gas Company		8/368	
	Consol Gas Company	CNX Gas Company LLC		8/368	
	CNX Gas Company LLC	Noble Energy, Inc.		32/54	
	CNX Gas Company LLC and Noble Energy, Inc.	PDC Mountaineer, LLC		33/198	
	PDC Mountaineer, LLC	River Ridge Energy, LLC			
00004191	Eldon L. Findley and Lois J. Findley, each in his own right as husband and wife	Consolidated Gas Supply Corporation	0.125	31/62	256
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation		5/555	
	Consolidated Gas Transmission Corporation	CNG Development Company		6/443	
	Petroleum Development Corporation	PDC Mountaineer, LLC		30/698	
	PDC Mountaineer, LLC	River Ridge Energy, LLC			

23	67/659	0.2	Mar Key, LLC	West Virginia Department of Transportation, Division of Highways	00006656
			River Ridge Energy, LLC	PDC Mountaineer, LLC	
	30/698		PDC Mountaineer, LLC	Petroleum Development Corporation	
273	44/647 61/49	0.125	Petroleum Development Corporation	Jack B. Marsh and Beatrice L. Marsh, his wife	00003835

West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business Organization Detail

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

DOMINION TRANSMISSION, INC.

Organization I	nformatio	n						
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
C Corporation	1/17/1984		1/17/1984	Foreign	Profit			

Business Purpose	4862 - Transportation and Warehousing - Pipeline Transportation - Pipeline Transportation of Natural Gas	Capital Stock	0.0000
Charter County		Control Number	0
Charter State	DE	Excess Acres	0
At Will Term		Member Managed	
At Will Term Years		Par Value	0.00000
Authorized Shares	0		

Addresses	
Туре	Address
Local Office Address	5400 D BIG TYLER ROAD CHARLESTON, WV, 25313
Mailing Address	445 WEST MAIN STREET CLARKSBURG, WV, 26301 USA
Notice of Process Address	CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313
Principal Office Address	445 WEST MAIN STREET CLARKSBURG, WV, 26301 USA
Туре	Address

Officers		
Туре	Name/Address	
Director	DAVID A. CHRISTIAN 120 TREDEGAR STREET RICHMOND, VA, 23219	
President	DIANE LEOPOLD 120 TREDEGAR STREET RICHMOND, VA, 23219	C.)
Secretary	CARTER M REID 100 TREDEGAR STREET 2ND FL. RICHMOND, VA, 23219	M - 0
Treasurer	JAMES R. CHAPMAN 120 TREDEGAR ST RICHMOND, VA, 23219	0)
Vice-President	ARNOLD J. JORDAN, JR. 100 TREDEGAR STREET RICHMOND, VA, 23219	0 1
Туре	Name/Address	20

Name	e Changes		
Date		Old Name	
	5/10/2000	CNG TRANSMISSION CORPORATION	
Date		Old Name	

Mergers				
Merger Date	Merged	Merged State	Survived	Survived State
1/16/2002	CNG POWER COMPANY	DE	DOMINION TRANSMISSION, INC.	DE
Merger Date	Merged	Merged State	Survived	Survived State

Date	Amendment
1/16/2002	MERGER: MERGING CNG POWER COMPANY, A QUALIFIED DE CORPORATION WITH AND INTO DOMINION TRANSMISSION, INC., A QUALIFIED DE CORPORATION, THE SURVIVOR
5/10/2000	NAME CHANGE: FROM CNG TRANSMISSION CORPORATION
12/2/1994	CHANGE TO AMEND STOCK IN ARTICLES OF CERTIFICATE OF AUTHORITY.
3/22/1993	CHANGE TO AMEND STOCK DESIGNATION IN ARTICLES OF CERTIFICATE OF AUTHORITY.
8/27/1991	AMENDMENT TO CERTIFICATE OF AUTHORITY.
12/19/1990	AMENDMENT TO CERTIFICATE OF AUTHORITY.
1/13/1988	CHANGE OF NAME FROM: CONSOLIDATED GAS TRANSMISSION CORPORATION.
Date	Amendment

Annual Reports	
Date filed	

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

6/13/2014 6/14/2013 6/31/2012 6/9/2010 6/22/2009 8/14/2008 11/1/2007 12/11/2006 9/29/2005 4/25/2005 6/14/2004 4/29/2003	5/26/2016	
6/14/2013 6/31/2012 6/9/2010 6/22/2009 8/14/2008 11/1/2007 12/11/2006 9/29/2005 6/12/2004 6/29/2003	6/15/2015	
5/31/2012 5/27/2011 5/9/2010 5/22/2009 3/14/2008 11/1/2007 12/11/2006 9/29/2005 14/25/2005 5/14/2004 14/29/2003	6/13/2014	
5/27/2011 6/9/2010 6/22/2009 8/14/2008 11/1/2007 12/11/2006 9/29/2005 6/14/2004 4/29/2003	6/14/2013	
6/9/2010 6/22/2009 8/14/2008 11/1/2007 12/11/2006 9/29/2005 6/12/2005 6/14/2004 14/29/2003	5/31/2012	
6/22/2009 8/14/2008 11/1/2007 12/11/2006 9/29/2005 6/14/2004 4/29/2003	5/27/2011	
8/14/2008 11/1/2007 12/11/2006 9/29/2005 6/125/2005 5/14/2004 4/29/2003	6/9/2010	
11/1/2007 12/11/2006 9/29/2005 4/25/2005 5/14/2004 4/29/2003	6/22/2009	
12/11/2006 9/29/2005 9/25/2005 5/14/2004 9/29/2003	8/14/2008	
9/29/2005 4/25/2005 5/14/2004 4/29/2003	11/1/2007	
4/25/2005 5/14/2004 4/29/2003 11/5/2001	12/11/2006	
5/14/2004 4/29/2003 11/5/2001	9/29/2005	
1/29/2003 11/5/2001	4/25/2005	
11/5/2001	5/14/2004	
	4/29/2003	
12/1/2000	11/5/2001	
	12/1/2000	
Date filed	Date filed	

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

Monday, May 22, 2017 — 1:23 PM

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West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business Organization Detail

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

CONSOL GAS COMPANY

Organization I		0						
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
C Corporation	3/26/1973		3/26/1973	Foreign	Profit		1/5/2011	Merger

Organization	Organization Information				
Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction	Capital Stock	0.0000		
Charter County		Control Number	0		
Charter State	DE	Excess Acres	0		
At Will Term		Member Managed			
At Will Term Years		Par Value	0.000000		
Authorized Shares	0				

Addresses	
Туре	Address
Local Office Address	ONE DOMINION DRIVE JANE LEW, WV, 26378
Mailing Address	1000 CONSOL ENERGY DR. CANONSBURG, PA, 15317 USA
Notice of Process Address	CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313 USA
Principal Office Address	ONE DOMINION DRIVE JANE LEW, WV, 26378 USA
Туре	Address

Officers		
Туре	Name/Address	
Director	N. J. DEIULIIS 1000 CONSOL ENERGY DRIVE CANONSBURG, PA, 15317 USA	
President	J. BRETT HARVEY 1000 CONSOL ENERGY DRIVE CANONSBURG, PA, 15317 USA	0
Secretary	P. J. RICHEY 1000 CONSOL ENERGY DRIVE CANONSBURG, PA, 15317	17
Treasurer	J. M. REILLY 1000 CONSOL ENERGY DRIVE CANONSBURG, PA, 15317 USA	
Vice-President	N. J. DEIULIIS 1000 CONSOL ENERGY DRIVE CANONSBURG, PA, 15317	
Туре	Name/Address	3.40

Name Changes	
Date	Old Name
5/21/2010	DOMINION EXPLORATION & PRODUCTION, INC.
5/10/2000	CNG PRODUCING COMPANY
Date	Old Name

Mergers				
Merger Date	Merged	Merged State	Survived	Survived State
7/7/2010	CONSOL GAS RESERVES INC.	VA	CONSOL GAS COMPANY	DE
7/7/2010	CONSOL GAS COALBED METHANE, INC.	DE	CONSOL GAS COMPANY	DE
11/19/2010	CONSOL ENERGY HOLDINGS LLC XVI	DE	CONSOL GAS COMPANY	DE
Merger Date	Merged	Merged State	Survived	Survived State

Subsidiaries	
Name	Address
	CNG PIPELINE CO 1450 POYDRAS STREET NEW ORLEANS, LA, 70112 USA
	CONSOLIDATED NATURAL GAS COMPANY 625 LIBERTY AVE. PITTSBURGH, PA, 15222 USA
	DOMINION COALBED METHANE, INC ONE DOMINION DR JANE LEW, WV, 26378 USA

Address

Date	Amendment	
7/16/1974	CERTIFICATE OF INCORPORATION ROLL 85	
1/31/1975	CERTIFICATE OF INCORPORATION ROLL 91	
6/23/1980	MERGER: HIDALGO-WILLACY OIL COMPANY, A TEXAS CORP. NOT QUAL. IN WV, WITH AND INTO CNG PRODUCING COMPANY, THE SURVIVOR	
7/30/1980	CERTIFICATE OF INCORPORATION	
7/23/1982	ARTICLES OF INCORPORATION	
1/18/1985	AMENDMENT: FILED	
5/10/2000	NAME CHANGE: FROM CNG PRODUCING COMPANY	
5/21/2010	NAME CHANGE: FROM DOMINION EXPLORATION & PRODUCTION, INC.	
7/7/2010	MERGER: MERGING CONSOL GAS COALBED METHANE, INC., A QUALIFIED DE CORPORATION WITH AND INTO CONSOL GAS COMPANY, A QUALIFIED DE CORPORATION, THE SURVIVOR	
7/7/2010	MERGER: MERGING CONSOL GAS RESERVES INC., A QUALIFIED VA CORPORATION WITH AND INTO CONSOL GAS COMPANY, A QUALIFIED DE CORPORATION, THE SURVIVOR	· (,
11/19/2010	MERGER: MERGING CONSOL ENERGY HOLDINGS LLC XVI, A NON- QUALIFIED DE ORGANIZATION WITH AND INTO CONSOL GAS COMPANY, A QUALIFIED DE CORPORATION, THE SURVIVOR	
1/5/2011	MERGER: MERGING CONSOL GAS COMPANY, A QUALIFIED DE CORPORATION WITH AND INTO CNX GAS COMPANY LLC, A QUALIFIED VA LIMITED LIABILITY COMPANY, THE SURVIVOR	
Date	Amendment]

Annual Reports	
Date filed	
6/22/2010	
6/26/2009	
8/15/2008	
11/30/2007	
4/11/2007	
10/31/2005	
5/2/2005	
3/22/2004	
5/21/2003	
12/19/2001	
4/26/2001	
Date filed	

Monday, May 22, 2017 — 1:11 PM

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Agreement to Drill, Complete and Operate Oil & Gas Wells

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

1. Term: This Agreement is effective from the Effective Date until terminated by Arsenal on the one hand or River Ridge and River Ridge Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").

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

[Signature Page Follows]

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

ARSENAL RESOURCES LLC

Name: Joel E. Symonds

Title: Vice President - Land

RIVER RIDGE ENERGY, LLC

Name: Joel E. Symonds

Title: Vice President - Land

RIVER RIDGE HOLDINGS, LLC

Name: Joel E. Symonds

Title: Vice President - Land

Agreement to Drill, Complete and Operate Oil & Gas Wells

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

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

[Signature Page Follows]

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

MOUNTAINEER KEYSTONE LLC

Name:

Title: CEO

PDC MOUNTAINEER, LLC

Title: CEO

PDC MOUNTAINEER HOLDINGS, LLC

Name: 🔏

Title: Coo

47091013-



May 25, 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; Veltri Pad

Dear Mr. Martin:

In preparation of filing a permit application for the above referenced well, the Title Department of Arsenal Resources conducted a thorough title examination to determine ownership of the oil and gas underlying all roadways crossed by the proposed wells. The findings of the title examination show that some of the roadways crossed by the proposed wells are owned in fee by the West Virginia Department of Transportation, Division of Highways and that some are right of ways only. If owned in fee by the West Virginia Department of Transportation, Division of Highways, a lease covering its interest in the roadway or roadways has been properly obtained and provided in the application materials. If a right of way only, the oil and gas underlying such roadway or roadways is owned by the adjoining landowners and is also covered by the leaseholds provided in the application materials.

If you have any questions, concerns or need further information, please do not hesitate to contact me at the address listed below.

Sincerely,

William T. Fahey III
Senior Title Attorney

WT Fuly II

4709101338

WW-6AC (1/12)

4709101338

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

Date of Notice Certification: 05/30/2017		API N	API No. 47- 091 - Operator's Well No. Veltri 1HM		
		Opera			
		Well	Pad Name: Veltri		
Notice has b					
	e provisions in West Virginia Code §	22-6A, the Operator has provided the	he required parties w	vith the Notice Forms listed	
	tract of land as follows:				
State:	West Virginia	UTM NAD 83 Eastir			
County:	Taylor	North	-		
District:	Courthouse	Public Road Access:		CR's 119/28, 119/27, 13/6	
Quadrangle:	Grafton	Generally used farm na	me: Veltri		
Watershed:	Long Run				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and signed the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen on the subsection (b), the applicant shall the three been completed by the applicant	ped in subdivisions (1), (2) and (4) ction sixteen of this article; (ii) that revey pursuant to subsection (a), see f this article were waived in writing ender proof of and certify to the secretary.	subsection (b), sec the requirement was tion ten of this arti- g by the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West	
Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY			OOG OFFICE USE ONLY		
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED B SEISMIC ACTIVITY WAS CON	2004-000-000-000-000-00-00-00-00-00-00-00	RECEIVED/ NOT REQUIRED	
☐ 2. NO	☐ RECEIVED				
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED B NOTICE OF ENTRY FOR PLAT WAS CONDUCTED or	N .	RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY SU (PLEASE ATTACH)	RFACE OWNER		
4. NOTICE OF PLANNED OPERATION				☐ RECEIVED	
■ 5. PUE	BLIC NOTICE			☐ RECEIVED	
■ 6. NO	FICE OF APPLICATION			☐ RECEIVED	

Required Attachments:

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

Its:

Certification of Notice is hereby given:

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

Well Operator: Arsenal Resources
By: William Veigel

William Veigel

Designated Agent

Telephone: 724-940-1204

Address: 6031 Wallace Road Ext., Suite 300

Wexford, PA 15090

Facsimile: 304-848-9134

Email: cflanagan@arsenalresources.com

OFFICIAL SEAL
NOTAR YN® FRANTY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 603
Lumberport WV 26386
My Commission Expires September 15, 2021

Subscribed and sworn before me this 31 day of

Notary Public

My Commission Expires 09/15/2021

Oil and Gas Privacy Notice:

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

WW-6A (9-13)

API NO. 47- ⁰⁹¹ -	
OPERATOR WELL NO.	Veltri 1HM
Well Pad Name: Veltri	

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: 05/30/2017 Date Permit Application Filed: 05/31/2017 Notice of: CONSTRUCTION OF APPROVAL FOR THE PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) ✓ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL ☐ REGISTERED RECEIPT OR SIGNATURE CONFIRMATION **SERVICE** MAIL Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: CoalQuest Development LLC c/o Chuck Duckworth Name: Anthony Veltri Address: 100 Tygart Drive Address: RR 2 Box 416 Grafton, West Virginia 26354 Grafton, WV 26354 COAL OPERATOR Name: Name: Address: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL Name: Thomas R. Sheme AND/OR WATER PURVEYOR(s) Address: 722 Nuzum Road Name: See Attached Grafton, WV 26354 Address: _____ Name: ______ Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: _____ SURFACE OWNER(s) (Impoundments or Pits) Address: Name: ______ *Please attach additional forms if necessary

WW-6A (8-13) API NO. 47-091

OPERATOR WELL NO. Veltri 1HM

Well Pad Name: Veltri

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. 47-091 - OPERATOR WELL NO. Vettri 1HM

Well Pad Name: Veltri

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

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- 091 - OPERATOR WELL NO. Veltri 1HM
Well Pad Name: Veltri

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.

WW-6A	
(8-13)	
	11.11.11
Notice is hereby given by: Well Operator: Arsenal Resources	11/11/11/11
Well Operator: Arsenal Resources	100 20

API NO. 47- 091 OPERATOR WELL NO. Veltri 1HM
Well Pad Name: Veltri

Address: 6031 Wallace Road Ext., Suite 300

Wexford, PA 15090

Facsimile: 304-848-9134

Oil and Gas Privacy Notice:

Email: cflanagan@arsenalresources.com

Telephone: 724-940-1224

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 603
Lumberport W 28386
My Commission Explares Beptember 15, 2021

Subscribed and sworn before me this 31 57 day of May 2017.

Notary Public

My Commission Expires 09/15/2021

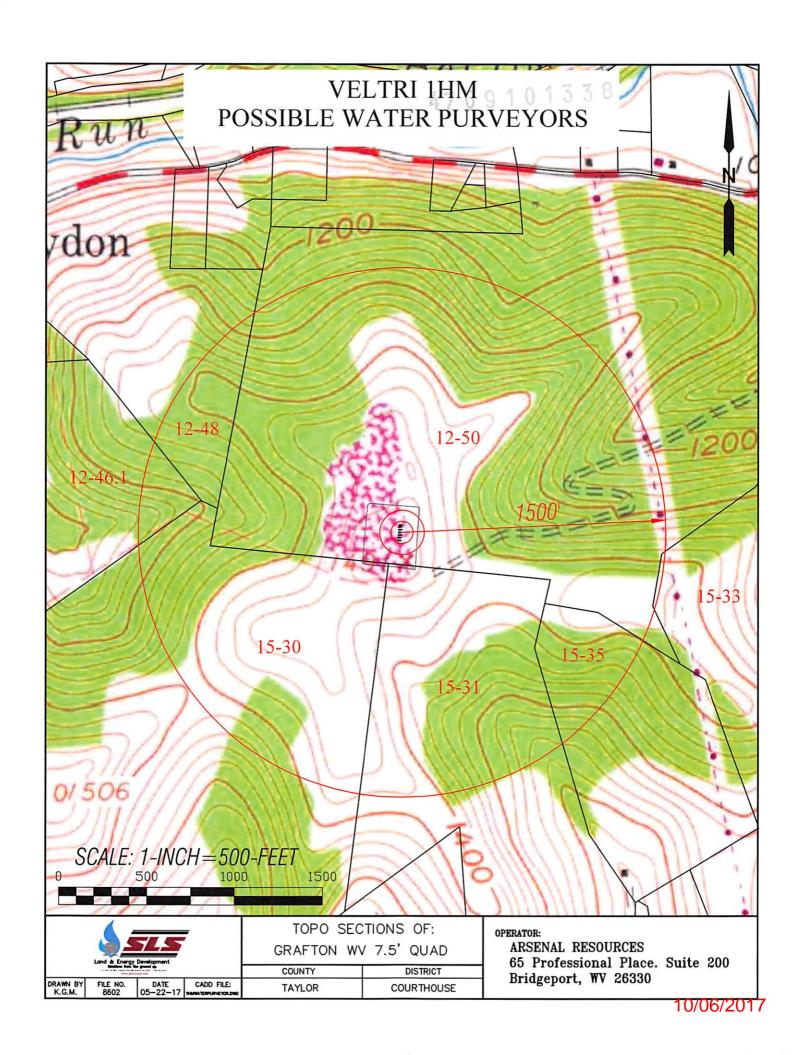
4709101330



Possible Water Purveyors within 1,500 feet of Veltri Pad

MAP	PARCEL	OWNER	ADDRESS
12	46.1	SHEME THOMAS RICHARD JR	722 NUZUM RD , GRAFTON , WV 26354
12	48	NEAL MARK WAYNE & JUDY ELAINE	P O BOX 144 , WALTON , WV 25286
12	50	VELTRI ANTHONY J.	RR 2 BOX 416, GRAFTON, WV 26354
15	30	SHEME THOMAS R JR JAYPRADHA WHITE	722 NUZUM RD , GRAFTON , WV 26354
15	31	SHEME THOMAS R JR JAYPRADHA WHITE	722 NUZUM RD , GRAFTON , WV 26354
15	33	MCVICKER JAMES D	5661 WEBSTER PIKE , GRAFTON , WV 26354
15	35	MINARD JEFFREY	RR 2 BOX 426 , GRAFTON , WV 26354

4709101338



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

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

Notice Time I Date of Notic		at least TEN (10) days prior to filing a permit Application Filed: 05/31/2017	permit application.
Delivery met	nod pursuant to West Virginia Code §	§ 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		EQUESTED	
receipt reques drilling a hori of this subsect subsection ma	ted or hand delivery, give the surface or zontal well: <i>Provided</i> , That notice give tion as of the date the notice was provid by be waived in writing by the surface or	wner notice of its intent to enter upon the pursuant to subsection (a), section tended to the surface owner: <i>Provided, how</i>	an operator shall, by certified mail return e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this ade the name, address, telephone number, r's authorized representative.
Notice is her	reby provided to the SURFACE O	WNER(s):	
Name: Anthony	/	Name:	0.40
Address: RR 2 Grafton, WV 263		Address:	9 1 0 1 3 3 8
Notice is her Pursuant to W the surface ov State:	est Virginia Code § 22-6A-16(b), notice	ce is hereby given that the undersigned thorizontal well on the tract of land as for Easting: UTM NAD 83	well operator has an intent to enter upon llows: 581,430.9
County:	Taylor	Northing:	4,347,753.5
District:	Courthouse		CR's 119/28, 119/27, 13/6
Quadrangle:	Grafton	Generally used farm name:	Veltri
Watershed:	Long Run		
Pursuant to V facsimile num	nber and electronic mail address of the izontal drilling may be obtained from the	e operator and the operator's authorize the Secretary, at the WV Department of	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	reby given by:		
Well Operato	r: Arsenal Resources	Authorized Representative:	William Veigel
Address:	6031 Wallace Road Ext., Suite 300	Address:	65 Professional Place, Suite 200
Wexford, PA 150	990	Bridgeport, WV 26330	
Telephone:	724-940-1224	Telephone:	724-940-1224
Email:	cflanagan@arsenalresources.com	Email:	cflanagan@arsenalresources.com
Facsimile:	304-848-9134	Facsimile:	304-848-9134

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

Operator '	Well	No.	Veltri	1HM
Operator	weii	NO.	veitti	ILIM

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

	e Time Re of Notice:	equirement: notice shall be provided no later 05/30/2017			application.
Delive	ery metho	d pursuant to West Virginia Code § 22-6A	-16(c)		
	CERTIFII RETURN		ID IVERY		
return the pl requir drillin damag	receipt re anned ope ed to be page of a horages to the se ne notices	Va. Code § 22-6A-16(c), no later than the dispersion of the surface of quested or hand delivery, give the surface oweration. The notice required by this subsect rovided by subsection (b), section ten of this arizontal well; and (3) A proposed surface us surface affected by oil and gas operations to the required by this section shall be given to the section.	mer whose land ion shall includer article to a surface and compens the extent the da	will be used fo de: (1) A copy ace owner whos ation agreemen mages are comp t the address lis	or the drilling of a horizontal well notice of of this code section; (2) The information is land will be used in conjunction with the it containing an offer of compensation for consable under article six-b of this chapter. Seted in the records of the sheriff at the time
(at the Name Addre		/	f notice): Name: _ Address	470	9101338
Pursu	tion on the	y given: st Virginia Code § 22-6A-16(c), notice is here e surface owner's land for the purpose of drill	ing a horizonta	l well on the tra	
Count	_	aylor	UTM NAD 8	Northing:	4,347,753.5
Distri	-	Courthouse	Public Road		CR's 119/28, 119/27, 13/6
		Grafton	Generally use	ed farm name:	Veltri
Pursu to be horize surfac inform headq	Notice Shant to Wear provided ontal well; see affected mation relations	all Include: st Virginia Code § 22-6A-16(c), this notice sl by W. Va. Code § 22-6A-10(b) to a surface and (3) A proposed surface use and compend by oil and gas operations to the extent the ated to horizontal drilling may be obtained for cated at 601 57th Street, SE, Charleston, alt.aspx.	e owner whose sation agreement damages are confrom the Secret	e land will be unt containing and ompensable und ary, at the WV	ased in conjunction with the drilling of a n offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Well	Operator:	Arsenal Resources	Address:	6031 Wallace Road	Ext., Suite 300
Telep		724-940-1204		Wexford, PA 15090	
Email		cflanagan@arsenalresources.com	Facsimile:	304-848-9134	
٥.,	10 -				

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.

API NO. 47- 091 -	
OPERATOR WELL NO.	Veltri 1HM
Well Pad Name: Veltri	

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

provisions lis WW-6A and	, hereby state that I have read ted above, and that I have received copies of a attachments consisting of pages one (1) through the well plot all for proposed well work on the	Notice of Apugh	oplication, an App , including t	olication for a Well Work Permit on Form
State:	Public Road Access: Grafton Long Run Courthouse Generally used farm name: CR's 119/28, 119/27, 13/6 Veltri Veltri Courthouse Grafton Long Run CR's 119/28, 119/27, 13/6 Veltri FOR EXECUTION BY A NATURAL PERSON AND STORMAR PERSON			
County:	Taylor	U IM NAD	Northing:	4,347,753.5
District:	Courthouse			
Quadrangle:	Grafton	Generally u	ised farm name:	Veltri
Watershed:	Long Run			
		scribed in the	ese materials, and	I have no objection to a permit being
*Please check	1/11	o p	FOR EXECUT	ION BY A NATURAL PERSON
☐ SURFAC	CE OWNER	U Departnie of	Signature:	KIR XV. H
■ SURFAC	CE OWNER CE OWNER (Road and/or Other Disturband CE OWNER (Impoundments/Pits)	ce)	Print Name: The	
☐ SURFAC	CE OWNER (Impoundments/Pits)			YOU DU A CODDOD ATION ETC
D COAL C	OWNER OR LESSEE		The state of the s	ION BY A CORPORATION, ETC.
L COAL C	WINER OR LESSEE			
□ COAL C	PERATOR		Its:	
■ WATER	RPURVEYOR		Signature:	
□ OPERA	TOR OF ANY NATURAL GAS STORAG	E FIELD	Date:	

Oil and Gas Privacy Notice:

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

Paul A. Mattox, Jr., P. E.
Secretary of Transportation
Commissioner of Highways

June 1, 2017

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

601 57th Street, SE
Charleston, WV 25304
Subject: DOH Permit for the Veltri Well Pad, Taylor County
Veltri 1HM Well Site

Dear Mr. Martin,

Earl Ray Tomblin

Governor

This well site will be accessed from a Permit #04-2013-0786 transferred to Arsenal Resources for access to the State Road for a well site located off of WV Route 119 F in Taylor County.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Day K. Clayton

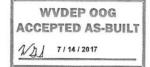
Cc: Kelley Eddy
Arsenal Resources
CH, OM, D-4
File

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

PROJECT INFORMATION

PROJECT NAME: VELTRI SURFACE OWNERS:

ANTHONY J. VELTRI TW 12 PAR 50



PROPERTY DISTURBANCE COMPUTATIONS

PERMITTED 100

LOCATION COORDINATES

PAD SITE ENTRANCE LATITUDE 39.279(29) LONGITUDE -80.045808 (NAD 83)

CENTER OF WELL PAD LATITUDE: 39.275287 LONGITUDE: -80.008100 (MAD 83)

CENTER OF TANK PAD LATITUDE 39.276393 LONGITUDE -60.056244 (NAD 63)

ENTRANCE PERMIT

AN ENCREACHMENT FERMI (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS WAS OBTAINED UNDER FDC MOUNTAINESE, LLC.

MISS_UTILITY_STATEMENT
IT IS UNDRESTOOD THAT WESS UTILITY WAS NOTIFIED PRIOR TO CONSTRUCTION OF
THE VIZING SIZE DAY ALL KNOWN UTILITIES WERE NOTED ON A SET OF DESIGN
FLANS PREPARED BY HONDER BEOTHERS ENGINEERING DATED 2-24-14. NO NEW
UTILITIES WERE NOTED DURING SIZES FIELD VISITS ON 10-24-16 & 10-25-16

FLOODPLAIN NOTE
THE EXISTING ACCESS TO THE YELTRI PAD APPEARS TO CROSS A FLOODPLAIN THAT
INDIFICIED ON FIRM MAY 54004C0120D AND IS ILLUSTRATED USING SHAPEFILES.

GEOTECHNICAL NOTE

EXPLORATION IS ANTICIPATED

ENVIRONMENTAL NOTE

A VITLANJOSTREAM RELIAMATION MAS PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC.) ON

A VITLANJOSTREAM RELIAMATION MAS PERFORMED BY A REPORT DATED 6-28-13. ACCORDING TO THIS REPORT 10

DIFFERENT STREAMS WERE ILECTIFIED TOTALING 1944 ELIMAR FERT INSIDE CECS AREA OF INVESTIGATION

CHOS AGO, THESE APPLIANT DE DE A TOTAL OF 9 WITLANDS DESCRIPTED TOTALING CIVIL AREAS WITCH

CHOS AGO. ACCORDING TO INDICATE REGO. ENCHRIBERS STEET FLANS AND PERMITS PERFARED AND SUMMITTED

FOR CEC, A TOTAL OF 54 LINEAR TEST OF INPICET WAS TO OCCUR ON TREMETRY 9 AND A TOTAL OF DOA

ACRES OF IMPACT WAS TO OCCUR ON WITLANDS 6 & 7. ALL CEC DELINEATED STREAMS AND VETLANDS ARE

SHOWN ON HIS AS-DUILT LIST FLAN.

GENERAL DESCRIPTION

AT THIS TIME, ONLY ONE OF SIX MARCELLUS GAS WELLS WERE DRILLED, WHICH IS THE SHM. THIS WELL HOWEVER IS NOT IN PRODUCTION.

RESTRICTIONS NOTES:

1. ONE PERMITTED IMPACT OF WETLAND 6 OCCURRED WITHIN 100 FEET OF THE WELL PAD LOD

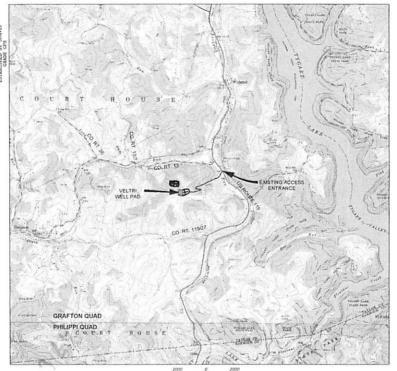
SURVEYOR NOTE

THE CERTIFICATION OF THIS DRAWING ONLY APPLIES TO THE TOPOGRAPHY AND DETAILS AS CENERATED FROM THEID DATA CRITISHED ON TO/FAY/18 & 10/25/18 SILS HAS NO KNOWLEDGE AND IS NOT RESPONSIBLE FOR ANY CHANGES AFTER THE DATES MENTIONED THAT COULD ALTER THE TOPOGRAPHY OR DETAILS.

VELTRI WELL PAD AS-BUILT AND FINAL AST SITE PLAN ARSENAL RESOURCES

PROPOSED WELLS: 1HM 47-091-01306, 2HM 47-091-01307, 3HM 47-91-01308, 4HM 47-91-01309, 5HM 47-91-01310, 6HM 47-91-01311, AND 7HM.

> SITUATE ON THE WATERS OF LONG RUN AND BERKELEY RUN IN COURTHOUSE DISTRICT, TAYLOR COUNTY, WEST VIRGINIA



MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

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	LEC	END	
EXISTING		PROPOSED	6
INDEX CONTOUR	200	INDEX CONTOUR	
INTERMEDIATE CONTOUR		INTERMEDIATE CONTOUR	-
BOUNDARY LINE		RECLAMATION S. CONTOUR	
ROAD EDGE OF GRAVEL/DIRT ROAD EDGE OF PAVEMENT		RECLAMATION 10' CONTOUR GRADING LIMITS	-
ROAD CENTERLINE		PERMITTED LIMITS OF DISTURBA	NCE
DITCHLINE		WELL PAD	-
CULVERT		WELL HEAD	•
GUARDRAIL	-0-	4" PVC DRAIN PIPE	
FENCELINE		SUMP DRAIN	
GATE		CONTAINMENT BERM	
OVERHEAD UTILITY		PIT/IMPOUNDMENT CL PERIMETER SAFETY FENCE	
OVERHEAD UTILITY R/W POWER POLE		ACCESS GATE WITH	
GUY WIRE	-	EMERGENCY LIFELINE	-
TELEPHONE LINE		100 per service de la constante	
CASLINE			
GASLINE R/W			
WATERLINE	7020		
WATER WELL.	0.0	ROCK CONSTRUCTION ENTRANCE	
GAS WELL TREELINE	Ø-	2.77	
REFERENCE TREE	~		
DELINEATED STREAM (PROVIDED			
BY MOUNTAINEER KEYSTONE)		ROAD EDGE OF GRAVEL	
		ROAD CENTERLINE	
DELINEATED WETLAND (PROVIDED BY MOUNTAINEER KEYSTONE)	-	V-DITCH W/ CHECK DAWS	
BUILDING		DITCH RELIEF	22-77-11
		CULVERT (DRC)	
BRIDGE		RIP-RAP OUTLET PROTECTION	5
100" WETLAND/STREAM BUFFER		GUARDRAIL	U
CEC AREA OF INTEREST			
		18" COMPOST FILTER SOCK	
		18" COMPOST FILTER SOCK	
		24" COMPOST FILTER SOCK 18" TRIPLE STACK COMPOST	
		FILTER SOCK	
		"A'	4
		SECTION LINE	+00
		100000000000000000000000000000000000000	
		MATCHLINE	
		X-SECTION GRID INDEX X-SECTION GRID INTERNEDIATE	
		X-SECTION GRID INTERMEDIATE	
		X-SECTION EXISTING GRADE	
		X-SECTION WATER SURFACE	
		SPOT ELEVATION	1000
		SUBGRADE ELEVATION	8.623
		SUBGRADE SLOPE FINISH GRADE ELEVATION	110
		FINISH GRADE SLOPE	3.57

OPERATOR

ARSENAL RESOURCES 65 PROFESSIONAL PLACE SUITE 200 BRIDGEPORT, WV 26330 PHONE: (304) 842-3597

ENGINEER/SURVEYOR

SMITH LAND SURVEYING, INC. 12 VANHORN DRIVE P.D. BOX 150 GLENVILLE, WV 26351 PHONE: (304) 462-5834

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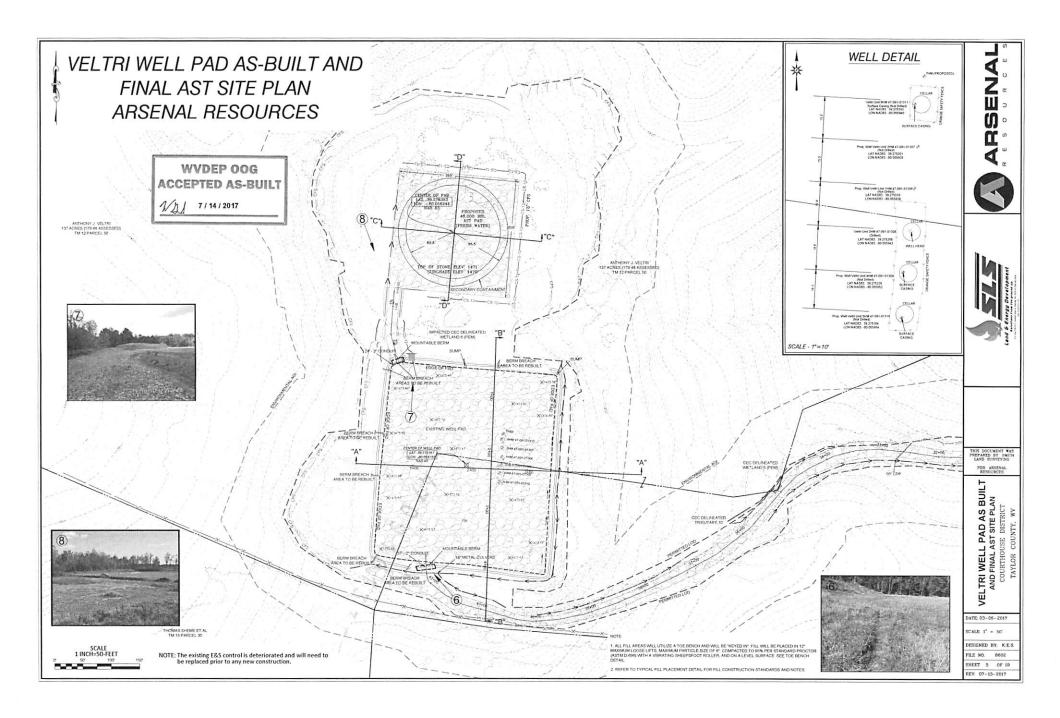


FOR ARSENAL RESOURCES

VELTRI WELL PAD AS BUILT
AND FINAL AST SITE PLAN
COURTHOUSE DISTRICT
TAYLOR COUNTY, WV

DATE: 03-06-2017 SCALE 1" = 2000"

DESIGNED BY KES FILE NO. 8602 SHEET 1 OF 19 REV: 07-13-2017



PROJECT INFORMATION

PROJECT NAME: VELTRI

SURFACE OWNERS:

ANTHONY J. VELTRI
TM 12 PAR 50
COUNTHOUSE DISTRICT
TAYLOR COUNTY, WY
TOTAL PROPERTY AREA: 179.46 ACRES

SITE LOCATION:

THE VELIES WELL PAD IS LOCATED ON THE WESTERN SIDE U.S. ROUTES 119 & 250.
APPROXIMATELY 0.15 MILES SOUTHEAST OF THE INTERSECTION OF COUNTY ROUTE 13 AND
U.S. ROUTES 119 & 250.

PROPERTY DISTURBANCE COMPUTATIONS

LOCATION COORDINATES

PAD SITE ENTRANCE LATITUDE: 39.279329 LONGITUDE: -80.045808 (NAD 83)

CENTER OF WELL PAD LATITUDE: 39.275267 LONGITUDE: -80.056155 (NAD 83)

CENTER OF TANK PAD LATITUDE: 39.276393 LONGITUDE: -80.058244 (NAD 83)

ENTRANCE PERMIT

AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS WAS OBTAINED UNDER PDC MOUNTAINEER, LLC.

MISS UTILITY STATEMENT
IT IS UNDERSTOOD THAT MISS UTILITY WAS NOTIFIED PRIOR TO CONSTRUCTION OF
THE VELTRI SITE AND ALL MOON UTILITIES WERE NOTED ON A SET OF DESIGN
PLANS PREPARED BY HORKE BROTHERS ENCINEERING DATED 2-24-14. NO NEW
UTILITIES WERE NOTED DURING SLS'S FIELD VISITS ON 10-24-18 & 10-25-16.

FLOODPLAIN NOTE
THE EGISTING ACCESS TO THE VELTRI PAD APPEARS TO CROSS A FLOODPLAIN THAT
IS DEPICTED ON FIRM MAP \$4091C0120D AND IS ILLUSTRATED USING SHAPEFILES
FROM MYGIS.

GEOTECHNICAL NOTE

POINT NO GEOTECHNICAL EXPLORATION IS ANTICIPATED

ENVIRONMENTAL NOTE

ENVIKUNMENTAL NOTE

A WETLAND/STREAM DELINEATION WAS PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) ON

4-17-13 & 6-10-13 AND WAS ILLUSTRATED IN A REPORT DATED 6-26-13. ACCORDING TO THIS REPORT II

DIFFERENT STREAMS WERE IDENTIFIED TOTALING 1764.6 LINEAR FEET INSIDE CEC'S AREA OF INVESTIGATION

(AGI). ALSO, THERE APPEARS TO BE A TOTAL OF 9 WETLANDS IDENTIFIED TOTALING 0.194 ACRES WITHIN

CEC'S AOI. ACCORDING TO HORNIER BROS. ENGINEERS' SITE FLANS AND PERMITS PREPARED AND SUBMITTED

BY CEC. A TOTAL OF 44 LINEAR FEET OF INDACT WAS TO OCCUR ON TRIBUTARY 9 AND A TOTAL OF 0.04

ACRES OF DEPACT WAS TO OCCUR ON WETLANDS 8 & 7. ALL CEC DELINEARED STREAMS AND WETLANDS ARE

SHOWN ON THIS AS-BUILT SITE PLAN.

GENERAL DESCRIPTION

AT THIS TIME, ONLY ONE OF SIX MARCELLUS GAS WELLS WERE DRILLED, WHICH IS THE 3HM. THIS WELL HOWEVER IS NOT IN PRODUCTION.

RESTRICTIONS NOTES:

1. ONE PERMITTED IMPACT OF WETLAND 6 OCCURRED WITHIN 100 FEET OF THE WELL PAD LOD.

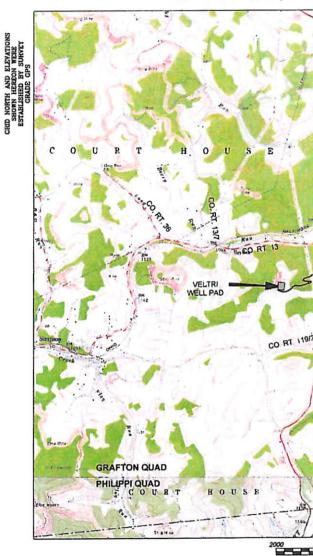
SURVEYOR NOTE

THE CERTIFICATION OF THIS DRAWING ONLY APPLIES TO THE TOPOGRAPHY AND DETAILS AS GENERATED FROM FIELD DATA OBTAINED ON 10/24/16 & 10/25/16. SLS HAS NO KNOWLEGG AND IS NOT RESPONSIBLE FOR ANY CHANGES AFTER THE DATES MENTIONED THAT COULD ALTER THE TOPOGRAPHY OR DETAILS.

VELTRI WELL PAD I FINAL AST SI ARSENAL RES

PROPOSED WELLS 1HM, 2HM, 3HM (4

SITUATE ON THE WATERS OF LO IN COURTHOUSE DISTRICT, TAY



MISS Utility of 1-800-2 West Virgini (Section XIV: (Requires that business days b the state of IT'S TH

IS-BUILT AND E PLAN **OURCES**

'-091-1308), 4HM, 5HM, AND 6HM

IG RUN AND BERKELEY RUN

OR COUNTY, WEST VIRGINIA.

JUN 1 4 2017

WV Department of Environmental Protection

LIST OF DRAWINGS

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ACCESS ROAD PROFILE

WELL PAD PROFILE

ACCESS ROAD SECTIONS

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ACCESS ROAD SECTIONS

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AST PAD RECLAMATION

CONSTRUCTION NOTES

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19 - CONSTRUCTION NOTES

EXISTING ACCESS

	LEG	END	
EXISTING		PROPOSED	
NDEX CONTOUR		INDEX CONTOUR	
NTERMEDIATE CONTOUR		INTERMEDIATE CONTOUR	
BOUNDARY LINE		RECLAMATION 2' CONTOUR	-
ROAD EDGE OF GRAVEL/DIRT		RECLAMATION 10' CONTOUR	
ROAD EDGE OF PAVEMENT		GRADING LIMITS PERMITTED LIMITS OF DISTURBAN	ce
ROAD CENTERLINE		WELL PAD	CE
DITCHLINE		WELL HEAD	•
CULVERT GUARDRAIL		4° PVC DRAIN PIPE	
FENCELINE		SUMP DRAIN	
GATE	-	CONTAINMENT BERM	
OVERHEAD UTILITY		PIT/IMPOUNDMENT CL	
OVERHEAD UTILITY R/W		PERIMETER SAFETY FENCE	
POWER POLE	ø	ACCESS GATE WITH	-
GUY WIRE	-	EMERGENCY LIFELINE	1
TELEPHONE LINE			3
CASLINE			-14
GASLINE R/W			100
WATERLINE		ROCK CONSTRUCTION	25
WATER WELL	9	ENTRANCE	Mary Mary
GAS WELL	‡		25
TREELINE	0		
REFERENCE TREE	0		1
DELINEATED STREAM (PROVIDED BY MOUNTAINEER KEYSTONE)		ROAD EDGE OF GRAVEL	
		ROAD CENTERLINE	
DELINEATED WETLAND (PROVIDED	()	V-DITCH W/ CHECK DAMS	$\rightarrow \!$
BY MOUNTAINEER KEYSTONE)		DITCH RELIEF	
BUILDING		CULVERT (DRC)	_
BRIDGE		RIP-RAP OUTLET PROTECTION	100
		GUARDRAIL	
100' WETLAND/STREAM BUFFER		COMBINAL	0 0
CEC AREA OF INTEREST		18" COMPOST FILTER SOCK	(5) (5)
		18" COMPOST FILTER SOCK	
		24" COMPOST FILTER SOCK	CS 10-15-16-
		18" TRIPLE STACK COMPOST	
		FILTER SOCK	
		"Δ"	"A"
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		SECTION LINE	00 0+
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		X-SECTION GRID INDEX	
		X-SECTION GRID INTERMEDIATE	
		X-SECTION PROPOSED GRADE	
		X-SECTION EXISTING GRADE	
		X-SECTION WATER SURFACE	
		SPOT ELEVATION	1000°
		SUBGRADE ELEVATION	XXXX X
		SUBGRADE SLOPE	XXXX
		FINISH GRADE ELEVATION FINISH GRADE SLOPE	XXX

West Virginia 5-4848 State Law apter 24-C)
you call two
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COURTHOUSE DISTRICT
TAYLOR COUNTY, WV

DATE: 03-06-2017

SCALE: 1" - 2000" DESIGNED BY: K.E.S.

FILE NO. SHEET 1 OF 19 REV: 05-23-2017