

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:

47-091-01339-00-00

Permit approval for VELTRI 2HM

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 2HM Farm Name: VELTRI, ANTHONY J.

U.S. WELL NUMBER: 47-091-01339-00-00 Horizontal 6A / New Drill

Date Issued: 10/2/2017

Promoting a healthy environment.

API Number:	

PERMIT CONDITIONS (19111330

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	:
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PERMIT CONDITIONS 9 1 1 3 3 9

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 2HM
Well Pad Name: Veltri	

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

1) Well Operator	_{r:} Arsenal F	Resource	S	494519412	Taylor	Courthou	Grafton
•				Operator ID	County	District	Quadrangle
2) Operator's W	ell Number: \	Veltri 2H	И	Well Page	d Name: Vel	ltri	
3) Farm Name/S	urface Owne	r: Anthor	ny Veltri	Public Roa	ad Access: C	CR's 119/28,	119/27, 13/6
4) Elevation, cur	rent ground:	1474	E	levation, proposed	post-constru	ction: <u>1474</u>	
5) Well Type	(a) Gas X		_ Oil _	Und	erground Sto	rage	
•	Other						
((b)If Gas S	hallow	X	Deep			
	ŀ	Iorizontal	X				
6) Existing Pad:	_				_		
7) Proposed Tary Mercellus Shale, 7881 ft (To	_		n(s), Antic	cipated Thickness a	and Expected	l Pressure(s):	
8) Proposed Total	al Vertical De	epth: 795	54 ft				
9) Formation at	Total Vertica	Depth:	Marcellu	s Shale			
10) Proposed To	otal Measured	Depth:	17614 ft				
11) Proposed Ho	orizontal Leg	Length:	9135 ft				
12) Approximate	e Fresh Water	Strata Do	epths:	550 ft			
13) Method to D	etermine Fre	sh Water I	Depths:	Offsetting wells reported	water depths (09	1-00825, 091-008	26, 091-00967, 091-00991)
14) Approximate	e Saltwater D	epths: 2	010 ft.				
15) Approximate	e Coal Seam	Depths: _^	oproximate Coal Seam De	pths: Harlem - 420, Bakerstown - 503', Brush Cn	eek - 598', Upper Freeport - 673', I	Lower Freeport – 720°, Upper Kittann	ing – 780', Middle Kittanning – 618', Lower Kittanning – 8
16) Approximate	e Depth to Po	ssible Vo	id (coal m	ine, karst, other):	None know	n	
17) Does Propos directly overlyin				ms Yes	1	No None kno	own
(a) If Yes, prov	vide Mine Inf	o: Name	٠.				
(a) 11 1 cs, prov	A IGO TATILIO IIII.	o. Name Deptl				<u> </u>	
		Seam					
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						Office of Oil	and Gas
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WW-6B	
(04/15)	

API NO. 47	-
OPERATOR WELL NO.	Veltri 2HM
Wolf Dad Names Vetti	

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'	стѕ
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#	17,614'	17,614'	TOC @ 2,550'MD
Tubing							
Liners							

Limit Skywick 9-25-17

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	Class A, 3% Cultium	1.20
Fresh Water	13.375"	17.5"	0.38"	2730	0	Classe A, 3% CuCi2	1.20
Coal					0		
Intermediate	9.625"	12.25°	0.395"	3950psi	0	Cirse A, 2% CuCt2	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-6B
(10/14)

API NO. 47	
OPERATOR WELL NO.	Veitri 2HM
Well Pad Name: Veitri	

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 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.

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WV Department of

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.4 Environmental Protection

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.

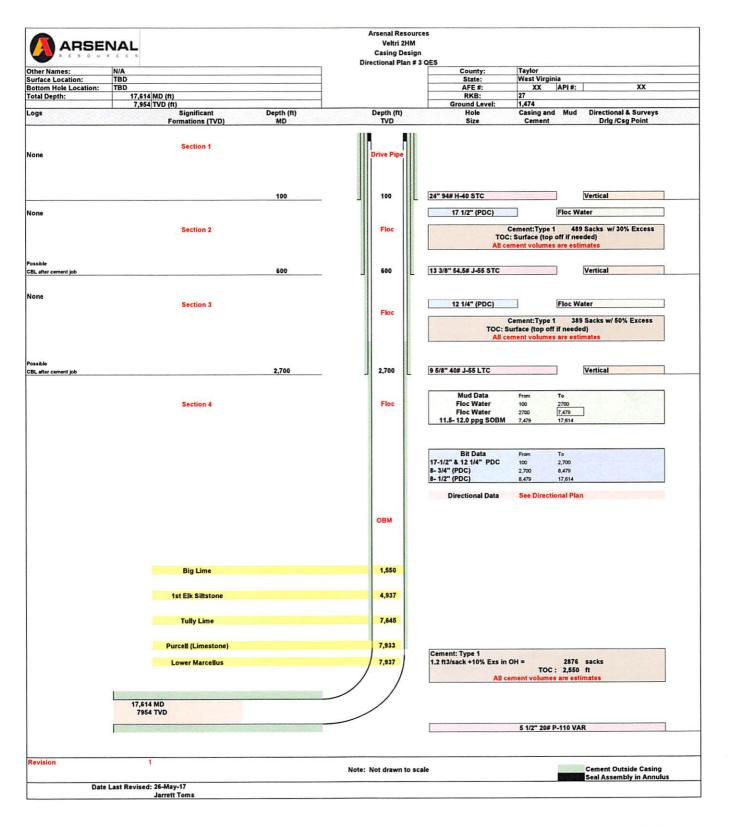
24) Describe all cement additives associated with each cement type:

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.



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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 Taylor County, WV prior to hydraulic fracturing at the following ARSENAL RESOURCES wells on the Veltri 2HM 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 4,400' 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.
- Observe wells closely during and after fracturing and monitor for abnormal increases in ED Gas water, gas or pressure.
 Inspect or install master valves rated to 3,000 psi or other necessary equipment for abnormal increases in ED Gas water, gas or pressure.
- 4. Notify the OOG and ARSENAL RESOURCES if any changes in water, gas production, pressure or other anomalies are identified.



2. Reporting

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

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County, WV
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	Producing Zones not Perforated	NA		MA	NA	NA	-							
	Perrorated Formation(s)	NA	Rigilims Riginin Courts Casachies Biles Bases	of carry and milant, routin, speediley, miey, benson	Greenbrier Group, big Lime, Firty-Foot	Thirty-Foot, Fourth								
Total Daniel	Inda Deptu	A	4551	V36V	4454	4451							_	
lonothinda	Т	-80.06017	-80.058656	-80.054902	00.050.705	-00,000,00				-				
Inthinda	-	39.274355	39.269179	99 269179	30 256377	13:4.30377				-	Constitution of the Consti			
Well Type	247	riugged	Vertical/Existing	Vertical/Existing	Vertical/Evicting	Silvenia Laborita								And in case of the last of the
Operator Name / Address	Alliance Detrolores Consults	Anianice renovement corporation	Alliance Petroleum Corporation	Alliance Petroleum Corporation	Alliance Petroleum Corporation									
API Number	041-00122-5	100000	091-00131	091-00133	091-00905						-			
Well Name	Havmond Nuzum 4		Haymond Muzum 3	E&L J Findley 1	ack B Marsh/B Marsh 3									

API Number 47 -	÷
Operator's Well No.	Veltri 2HM

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Out and Market Areas Personner	OD G. L. 401540440
	OP Code 494519412
Watershed (HUC 10) Long Run	
Do you anticipate using more than 5,000 bbls of water Will a pit be used? Yes No No	to complete the proposed well work? Yes No
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 W	astes:
Reuse (at API Number Off Site Disposal (Supply f	C Permit Number) form WW-9 for disposal location)
	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, petroleun	, etc. Synthetic
Additives to be used in drilling medium? Bentonite, Soa	p & 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	n will be used? (cement, lime, sawdust)_N/A
-Landfill or offsite name/permit number? Ad	vanced Disposal Services and Chestnut Valley Landfill
Permittee shall provide written notice to the Office of West Virginia solid waste facility. The notice shall be where it was properly disposed.	Oil and Gas of any load of drill cuttings or associated waste rejected at any provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Vio law or regulation can lead to enforcement action. I certify under penalty of law that I have p application form and all attachments thereto and the	West Virginia Department of Environmental Protection. I understand that the lations of any term or condition of the general permit and/or other applicable ersonally examined and am familiar with the information submitted on this lat, based on my inquiry of those individuals immediately responsible for ation is true, accurate, and complete. I am aware that there are significant the possibility of fine or imprisonment. Office of Oil and Gas
Company Official Signature	
Company Official (Typed Name) William Veigel	JUN 01 2017
Company Official Title Designated Agent	WV Department of
	Environmental Protection
Subscribed and sworn before me this 30TH	day of MAY, 2017
My commission expires 9/15/2021	Notary Public STATE OF WEST VIRGINIA CAROLINDA FLANAGAN PO Box 603

Arsenal Resources		Operator's Well No	o. Veltri 2HM
Proposed Revegetation Treatm	ent: Acres Disturbed 14.4	Prevegetation pH 6.8	Average
Lime 4	Tons/acre or to correct to p		
Fertilizer type 10-20	-20	_	
Fertilizer amount 500)	lbs/acre	
2		s/acre	
	<u>Se</u>	eed Mixtures	
Tem	porary	Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye	40	Swisher Meadow Mix	100
Field Bromegrass	40		
Winter Rye	168		
Winter Wheat	180		
Photocopied section of involve			
Pre-seed /	mulch all disturbed	d areas as soon as reasona	
		needed per WVDEP E&S r	
necessary.	<u> </u>	•	· · · · · · · · · · · · · · · · · · ·
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		477	
Title: 012 1-6 115	laterio	Date: 5-25-1	RECEIV Office of Oil a
Field Reviewed? () Yes (l) No	JUN 01



SITE SAFETY PLAN

VELTRI 2HM WELL PAD

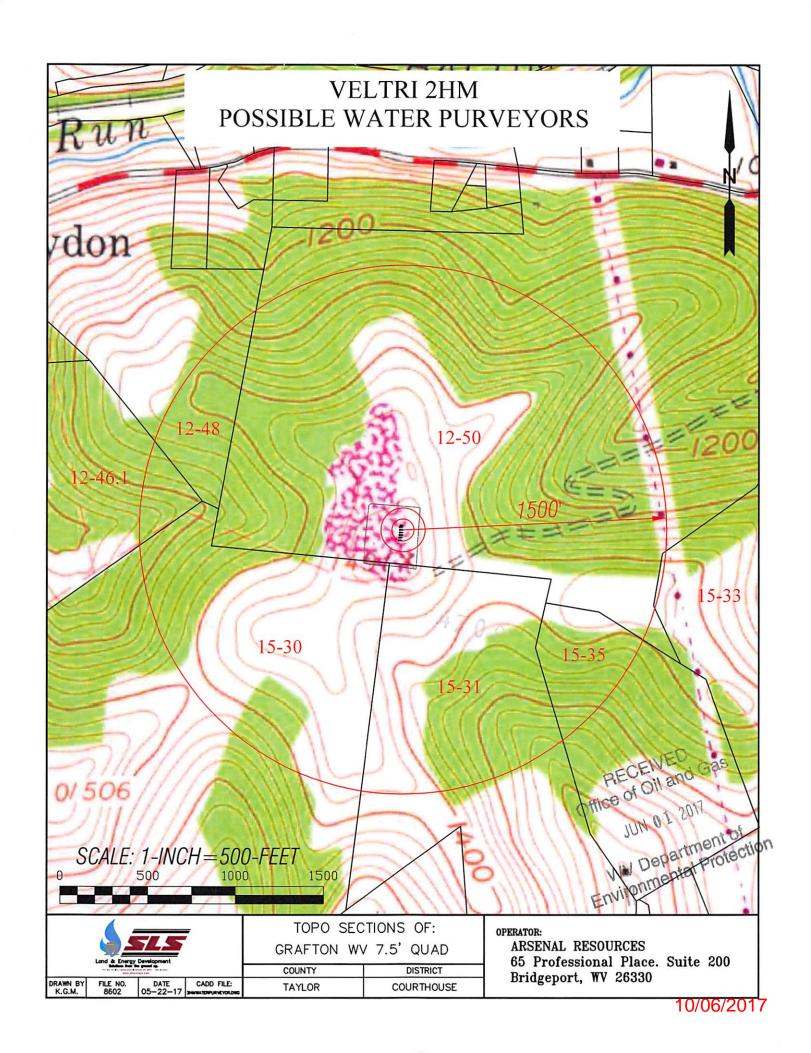
911 Address:

4728 Webster Pike

Grafton, WV 26354 4709101330

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Possible Water Purveyors within 1,500 feet of Veltri Pad

MAP	PARCEL	OWNER	ADDRESS		
12	46.1	HEME 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		

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached

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

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

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

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

Well Operator: Arsenal Resources

By:

William Veigel

Its:

Designated Agent

Attachment to WW-6A1, Veltri 2HM

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	Anthony J. and Geraldine M. Veltri	Petroleum Development Corporation	0.125	41/605 43/264 44/364 45/656 46/666 62/574 48/639	40.86
	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	
m	PDC Mountaineer, LLC	River Ridge Energy, LLC			

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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	Adolphus T. Leach and Leona C. Leach, his wife; Haymond J. Nuzum, single; Gloria D. Short, divorced		34/98	
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission		5/555	
	Consolidated Gas Transmission Corporation	CNG Development Company		6/443	
	CNG Development Company	CNG Producing			
	CNG Producing	Dominion Exploration and Production, Inc.			
	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	
REC	PDC Mountaineer, LLC	River Ridge Energy, LLC		*	70 Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

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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.

DOMINION TRANSMISSION, INC.

Organization I	nformatio	n		4	7 ()	9	1 () 1	3	3	9
Org Type	Effective Date	Established Date	Filing Date	Charter	Clas	s :	Sec Type	Te Da		ation	Term	nination son
C Corporation	1/17/1984		1/17/1984	Foreign	Prof	it						

4862 - Transportation and	Canital	
Transportation - Pipeline Transportation of Natural Gas	Stock	0.0000
	Control Number	0
DE	Excess Acres	0
	Member Managed	
	Par Value	0.000000
0		
	4862 - Transportation and Warehousing - Pipeline Transportation - Pipeline Transportation of Natural Gas	Warehousing - Pipeline Transportation - Pipeline Transportation of Natural Gas Control Number Excess Acres Member Managed Par Value

Addresses		
Туре	Address	
Local Office Address	5400 D BIG TYLER ROAD CHARLESTON, WV, 25313	20 C
Mailing Address	445 WEST MAIN STREET CLARKSBURG, WV, 26301 USA	IVED
Notice of Process Address	CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313	RECE
Principal Office Address	445 WEST MAIN STREET CLARKSBURG, WV, 26301 USA	Ç
Туре	Address	

Environmental Protection

	105 M 125 CC C C C C C C C C C C C C C C C C C	
Officers		
Туре	Name/Address	
Director	DAVID A. CHRISTIAN 120 TREDEGAR STREET RICHMOND, VA, 23219	
President	DIANE LEOPOLD 120 TREDEGAR STREET RICHMOND, VA, 23219	
Secretary	CARTER M REID 100 TREDEGAR STREET 2ND FL. RICHMOND, VA, 23219	
Treasurer	JAMES R. CHAPMAN 120 TREDEGAR ST RICHMOND, VA, 23219	
Vice-President	ARNOLD J. JORDAN, JR. 100 TREDEGAR STREET RICHMOND, VA, 23219	
Туре	Name/Address	

Name	e Changes								
Date		Old Name	4	7	0	9	1	0	1
	5/10/2000	CNG TRANSMISSION CORPORATION							8
Date	2	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 C Q

Annual Reports

Date filed

WV Department of Environmental Protection

10/06/2017

5/26/2016	Company Compan
6/15/2015	
6/13/2014	
6/14/2013	
5/31/2012	
5/27/2011	
6/9/2010	
6/22/2009	
8/14/2008	
11/1/2007	
12/11/2006	
9/29/2005	
4/25/2005	
5/14/2004	
4/29/2003	
11/5/2001	
12/1/2000	
	
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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Office of Oil and Gas
JUN 0.1 2017

West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business Organization Detail

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

CONSOL GAS COMPANY

Ord Type Charter Class		1
Date Date Date Type Date Reas	nation on	
C Corporation 3/26/1973 3/26/1973 Foreign Profit 1/5/2011 Merg	er	

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		

Туре	Address	
Local Office Address	ONE DOMINION DRIVE JANE LEW, WV, 26378	aas
Mailing Address	1000 CONSOL ENERGY DR. CANONSBURG, PA, 15317 USA	VED and 0
Notice of Process Address	CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313 USA	RECEI 8 of Oil
Principal Office Address	ONE DOMINION DRIVE JANE LEW, WV, 26378 USA	Office
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
Secretary	P. J. RICHEY 1000 CONSOL ENERGY DRIVE CANONSBURG, PA, 15317
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

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	9DE 0 1 3	
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	0.7
	CNG PIPELINE CO 1450 POYDRAS STREET NEW ORLEANS, LA, 70112 USA	CEIVE
	CONSOLIDATED NATURAL GAS COMPANY 625 LIBERTY AVE. PITTSBURGH, PA, 15222 USA	R
	DOMINION COALBED METHANE, INC ONE DOMINION DR JANE LEW, WV, 26378 USA	

39

JUN 0.1 2017
WV Department of
Environmental Protection

10/06/2017

Address

Date	Amendment
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
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
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
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
5/21/2010	NAME CHANGE: FROM DOMINION EXPLORATION & PRODUCTION, INC.
5/10/2000	NAME CHANGE: FROM CNG PRODUCING COMPANY
1/18/1985	AMENDMENT: FILED
7/23/1982	ARTICLES OF INCORPORATION
7/30/1980	CERTIFICATE OF INCORPORATION
6/23/1980	MERGER: HIDALGO-WILLACY OIL COMPANY, A TEXAS CORP. NOT QUAL. IN WV, WITH AND INTO CNG PRODUCING COMPANY, THE SURVIVOR
1/31/1975	CERTIFICATE OF INCORPORATION ROLL 91
7/16/1974	CERTIFICATE OF INCORPORATION ROLL 85
Date	Amendment

Annual Reports	47000
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	
	iii
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Date filed	

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Office of Oil and Gas

JUN 01 2017

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 Dclaware 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:

- Term: This Agreement is effective from the Effective Date until terminated by Mountaineer 1. 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").
- Authorization to Operate: PDC and PDC Holdings authorize Mountaineer Keystone to 2. 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").
- No Third Party Beneficiary: This Agreement is for the benefit of the Parties and is not for the 3. benefit of any third party.
- Counterparts: This Agreement may be simultaneously executed in several counterparts and via 4. 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]

PROBLEM SAN RECEIVED Office of Oil and Gas

JUN 04 2017

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: 24-1 K

Title: CEO

PDC MOUNTAINEER, LLC

Name: 24 Karl

Title: Caro

PDC MOUNTAINEER HOLDINGS, LLC

Name: Rhy Kal

Title: Coo

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Office of Oil and Gas

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JUN 0 1 2017

Agreement to Drill, Complete and Operate Oil & Gas Wells

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

- 1. Term: This Agreement is effective from the Effective Date until terminated by Arsenal on the one hand or River Ridge and River Ridge Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").
- 2. Authorization to Operate: River Ridge and River Holdings authorize Arsenal to undertake and perform, on River Ridge and River Ridge Holdings behalf, all operations, including without limitation permit applications, well pad preparation, drilling and completing wells, and marketing gas, oil and other hydrocarbons therefrom with respect to all oil and gas wells to be drilled on oil and gas leasehold acreage held by River Ridge or River Ridge Holdings. River Ridge, River Ridge Holdings and Arsenal are affiliates with a common parent. Arsenal was formed to operate oil and gas leasehold acreage held by River Ridge, River Ridge Holdings and certain other affiliates. Arsenal agrees that it shall, in a good and workmanlike manner and in accordance with industry standards as they prevail in the area, drill, complete and operate oil and gas wells on leasehold acreage owned by River Ridge or River Ridge Holdings from time to time as directed by River Ridge or River Ridge Holdings (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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Office of Oil and Gas.

JUN 1 : YOU

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

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JUN 01 2017



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:

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Office of Oil and Gas
JUN 01 2017

WV Department of Environmental Protection

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

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

Date of Notice Certification: 05/30/2017			API No. 47 Operator's Well No. Veltri 2HM		
		Well Pad	Name: Veltri		
Notice has b					
		22-6A, the Operator has provided the re	equired parties w	ith the Notice Forms listed	
	tract of land as follows:	7			
State:	West Virginia	UTM NAD 83 Easting:	581,431.2		
County:	Taylor	Northing:		10.0	
District:	Courthouse	Public Road Access:	CR's 119/28, 119	9/27, 13/6	
Quadrangle:	Grafton	Generally used farm name:	Veltri		
Watershed:	Long Run				
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface of subsection (b), section sixteen of	hall contain the following information: (bed in subdivisions (1), (2) and (4), sub- ction sixteen of this article; (ii) that the r rvey pursuant to subsection (a), section f this article were waived in writing by ender proof of and certify to the secretar it.	equirement was ten of this artive the surface over	etion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West	
that the Oper	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY	erator has attached proof to this Notice d parties with the following:	Certification	OOG OFFICE USE ONLY	
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDUC		☐ RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVEY WAS O	CONDUCTED	☐ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECANOTICE OF ENTRY FOR PLAT SUF WAS CONDUCTED or		RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	ACE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED	
■ 5. PUE	BLIC NOTICE			☐ RECEIVED	
■ 6 NO	TICE 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-11(b), the Certification of Notice to the person may be made by affidiation personal service, the return receipt card or other postal receipt for certified mailing.

WV Department of Environment 2047tion

By:

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

William Veigel

Its: Designated Agent

Telephone: 724-940-1204

Address: 6031 Wallace Road Ext., Suite 300

Wexford, PA 15090

Facsimile: 304-848-9134

Email: cflanagan@arsenalresources.com

NOTARY SEFCAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRIGINIA
CAROLINDA FLANAGAN
PO Box 603
Luntiberport WY 26386
My Commission Expires Beptember 15, 2021

Subscribed and sworn before me this 31 day of My

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.

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Office of Oil and Gas

JUN 01 2017

WV Department of Environmented 17

WW-6A (9-13)

API NO. 47		
OPERATOR WE	LL NO.	Veltri 2HM
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: 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 REOUIRES A **SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: SURFACE OWNER(s) COAL OWNER OR LESSEE Name: CoalQuest Development LLC c/o Chuck Duckworth Name: Anthony Veltri Address: RR 2 Box 416 Address: 100 Tygart Drive Grafton, WV 26354 Grafton, West Virginia 26354 Name: □ COAL OPERATOR Name: Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) ☑ SURFACE OWNER OF WATER WELL Name: Thomas Sheme Address: 722 Nuzum Road AND/OR WATER PURVEYOR(s) Grafton, WV 26354 Name: See Attached Name: Address: Address: _____ OPERATOR OF ANY NATURAL GAS STORAGE FINEDO Address: Office of Oil and Gas ☐ SURFACE OWNER(s) (Impoundments or Pits) Address: JUN 01 2017 *Please attach additional forms if necessary

WW-6A	
(8-13)	

API NO. 47-	
OPERATOR WELL NO.	Veltri 2HM
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/oiland-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 permitter Gas 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 point 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 of the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items of the secretary that of the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items of the secretary that of the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items of the secretary that of the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items of the secretary that of the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items of the secretary that of the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items of the secretary that of the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items of the secretary that of the secretary th

WW-6A	
(8-13)	

API NO. 47-OPERATOR WELL NO. Veitri 2HM 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

RECEIVED Office of Oil and Gas

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 WV Department of Environmental Protection

W	W-6A	
(8-	-13)	

API NO. 47	
OPERATOR WELL NO.	Veltri 2HM
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)

NWES Notice is hereby given by: Well Operator: Arsenal Resources Telephone: 724-940-1224 Email: cflanagan@arsenalresources.com

API NO. 47	-
OPERATOR WE	ELL NO. Veltri 2HM
Well Pad Name:	Veltri

Address: 6031 Wallace Road Ext., Suite 300

Wexford, PA 15090

Facsimile: 304-848-9134

Oil and Gas Privacy Notice:

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

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

Subscribed and sworn before me this 3157 day of MAY

Notary Public

My Commission Expires 09/15/2021

4700101330

RECEIVED Office of Oil and Gas JUN 01 2017

WV Department of Environmental Protection 10/06/2017



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

4709101339

RECEIVED Office of Oil and Gas

JUN 01 2017

WV Department of Environmental Protection

10/06/2017

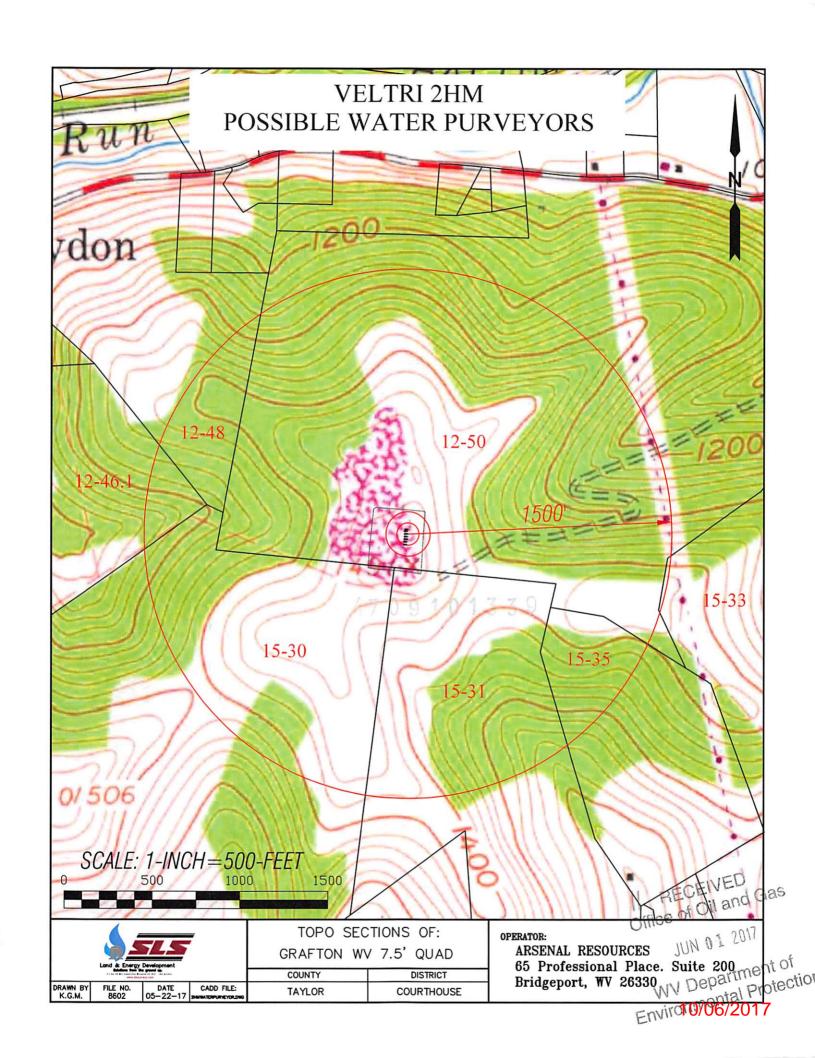


Possible Water Purveyors within 1,500 feet of Veltri Pad

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15	33	MCVICKER JAMES D	5661 WEBSTER PIKE , GRAFTON , WV 26354
15	35	MINARD JEFFREY	RR 2 BOX 426 , GRAFTON , WV 26354

4709101370

RECEIVED
Office of Oil and Gas
JUN 0.1 2017
WV Department of
Environmental Protection
10/06/2017



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

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

Notice Time Date of Noti	Requirement: ce: 05/30/2017	Notice shall be provided at leas Date Permit	t TEN (10) days prior to filing a Application Filed: 05/31/2017	permit application.
Delivery me	thod pursuant	to West Virginia Code § 22-6A	4-16(b)	
HAND DELIVI		CERTIFIED MAIL RETURN RECEIPT REQUES	STED	
receipt reque drilling a hor of this subsection mand if available	sted or hand delizontal well: Petion as of the day be waived in ole, facsimile nu	rovided, That notice given purs ate the notice was provided to the writing by the surface owner.	otice of its intent to enter upon the uant to subsection (a), section tenter surface owner: <i>Provided, how</i> . The notice, if required, shall includes of the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this dude the name, address, telephone number, or's authorized representative.
Notice is no Name: Anthony		d to the SURFACE OWNE	Name:	
Address: RR Grafton, WV 26	2 Box 416		Address:	
Pursuant to V	ereby given: West Virginia Country is land for West Virginia Taylor Courthouse Grafton Long Run	ode § 22-6A-16(b), notice is he the purpose of drilling a horizor	reby given that the undersigned that well on the tract of land as for the UTM NAD 83 Public Road Access: Generally used farm name:	well operator has an intent to enter upon bllows: 581,431.2 4,347,758.1 CR's 119/28, 119/27, 13/6 Veltri
Pursuant to facsimile nu related to ho	mber and electrizontal drilling	Code § 22-6A-16(b), this notice mail address of the operary may be obtained from the Sec	tor and the operator's authorize retary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	ereby given by	y:		
Well Operate	or: Arsenal Resou	irces	Authorized Representative:	William Veigel
Address:	6031 Wallace	Road Ext., Suite 300	Address:	65 Professional Place, Suite 200
Wexford, PA 15	5090		Bridgeport, WV 26330	
Telephone:	724-940-1204		Telephone:	724-940-1117
Email:	cflanagan@ar	senalresources.com	Email:	wveigel@arsenalresources.com
Facsimile:	304-848-9134		Facsimile:	304-848-9134

Oil and Gas Privacy Notice:

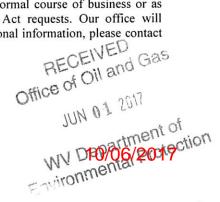
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as a needed to comply with statutory or 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.

JUN DEPartment of Environment 06/2017

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

		Requirement: notice shall be provided :: 05/30/2017 Date Permit				application.
Deliv	ery meth	od pursuant to West Virginia Code	§ 22-6A-16((c)		
	CERTIE	IED MAIL] HAND			
		N RECEIPT REQUESTED	DELIVE	ERY		
return the p required drilling dama	n receipt in lanned opered to be ang of a hanger of the ges to the he notices	requested or hand delivery, give the superation. The notice required by this provided by subsection (b), section terporizontal well; and (3) A proposed superation of the surface affected by oil and gas operated.	rface owner subsection of this artic arface use an ions to the ex-	whose land shall include le to a surfand of compense of the day	will be used for de: (1) A copy ace owner whose ation agreement amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter. Ited in the records of the sheriff at the time
(at th Name Addr		3ox 416		Name:		
Pursu opera	ant to Wation on t	by given: est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos			l well on the tra	ct of land as follows:
State		West Virginia Taylor	U'	TM NAD 8	Easting: Northing:	581,431.2 4,347,758.1
Distr		Courthouse	—— Рı	ıblic Road	-	CR's 119/28, 119/27, 13/6
	lrangle:	Grafton	G	enerally use	ed farm name:	Veltri
0.70	rshed:	Long Run				
Pursu to be horiz surfa infor heade gas/p	uant to We provided contal well ce affected mation re	d by W. Va. Code § 22-6A-10(b) to l; and (3) A proposed surface use and ed by oil and gas operations to the exclated to horizontal drilling may be of located at 601 57 th Street, SE, Chault.aspx.	a surface ov compensation tent the dame btained from	wner whose on agreeme nages are co the Secret	e land will be unt containing and compensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-ext. , Suite 300
	ohone:	724-940-1204			Wexford, PA 15090	
Emai		cflanagan@arsenalresources.com	······································	Facsimile:		
Oil a	ind Gas I	Privacy Notice:		(4)	11	

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

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

Subject: DOH Permit for the Veltri Well Pad, Taylor County Veltri 2HM Well Site

47-091-01339

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, Layton

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

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

Veltri 2HM				
	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	Al-300	111-76-2	
Additive #6:	Gel Breaker	AP-One	7727-54-0	
Additive #7:	Acid	HCI - 7.5%	7647-01-0	

PROJECT INFORMATION

SURFACE OWNERS

ANTHONY J. VELTRI TW 12 PAR 50



SITE LOCATION

PROPERTY DISTURBANCE COMPUTATIONS

PERMITTED LOG

LOCATION COORDINATES

CENTER OF TANK PAD LATTRUDE 39 276393 LONGITUDE: -80.056244 (NAD 63)

ENTRANCE PERMIT

MISS_UTILITY_STATEMENT
If IS UNDERSTOOD THAT MSS UTILITY WAS NOTIFIED PROR TO CONSTRUCTION OF
HE VILING ISTER AND ALL KNOWN UTILITIES WERE NOTED ON A SET OF DESIGN
FLANS PREPARED BY HORNER ENGINEERS ENGINEERING DATED 2-24-14. NO NEW
UTILITIES WERE NOTED DURING SISS FIELD VISITS ON 10-24-16 & 10-25-16.

VELTRI PAD APPEARS TO CROSS A FLOODPLAIN THAT 091C0120D AND IS BLUSTRATED USING SHAPEFILES

GEOTECHNICAL NOTE

L EXPLORATION IS ANTICIPATED

ENVIRONMENTAL NOTE

A VITLANO/STREAM PERIFATION MAS PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CIC.) ON

A VITLANO/STREAM PERIFATION MAS PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CIC.) ON

INC. A VITLANO CIVIL AND WAS ILLUSTRATED IN A REPORT DATED 6-28-13. ACCORDING TO THIS REPORT 10

DIFFERENT STREAMS VIEW IEDENTITIED TOTALING 1964 ELINEAR PERT INSIDE CEC'S AREA OF INVESTIGATION

CIC. SOL. ACCORDING TO HONKER BROS. INCRINERES' SITE PLANS AND PERMITS PERSARED AND SUBMITTED

CIC. A TOTAL OF SELECTED TO PRESET WAS TO COCCE ON TREATMENT A PARA D TOTAL OF 0 OH

ACRES OF IMPACT WAS TO OCCUR ON WITLANDS & 2 7. ALL CIC DELINITATED STREAMS AND WITLANDS ARE

SHOWN ON THE AS-DULT SITE PLAN.

GENERAL DESCRIPTION

AT THIS TIME, ONLY ONE OF SIX MARCELLUS GAS WELLS WERE DRILLED, WHICH IS THE

RESTRICTIONS NOTES:

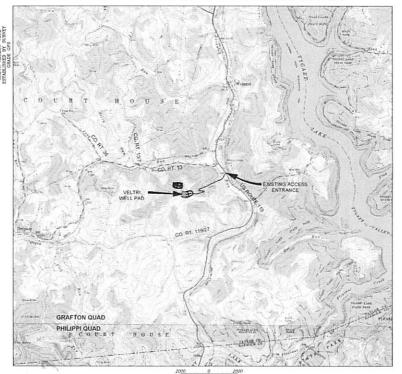
1. ONE PERMITTED IMPACT OF WETLAND 6 OCCURRED WITHIN 100 FEET OF THE WELL PAD LOD

THE CERTIFICATION OF THIS DRAWING ONLY APPLIES TO THE TOPOGRAPHY AND DETAILS AS CENERATED FROM FILED DATA CETAINED ON 10/24/18 & 10/25/18 SIS HAS NO KNOWLESCE AND IS NOT RESPONSIBLE FOR ANY CHANGES AFTER THE DATES MENTIONED THAT COULD ALTER THE TOPOGRAPHY OR ETAILS.

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!

LIST OF DRAWINGS

1 - COVER SHEET

2 - OVERALL SHEET INDEX

3 - ACCESS ROAD

4 - ACCESS ROADS

5 - WELL PAD AND ACCESS ROAL

8 - ACCESS ROAD PROFILE

7 - ACCESS ROAD PROFILE

8 - WELL PAD PROFILE 9 - ACCESS BOAD SECTIONS

10 - ACCESS ROAD SECTIONS

11 - ACCESS ROAD SECTIONS

12 - ACCESS ROAD SECTIONS

13 - AST PAD

15 - AST PAD & ACCESS ROAD CROSS SECTIONS

16 - AST PAD RECLAMATION

17 - CONSTRUCTION NOTES

19 - CONSTRUCTION NOTES

	LEGEND
EXISTING	PROPOSED
INSEE CONTRUE INTERMEDIATE CONTOUR BOUNDARY LINE CULVERY CUL	NORK CONTOUR STERMEDIATE CONTOUR STERMEDIATE CONTOUR SECLAMATION O' CONTOUR SOLD FRAIN SOLD CONTOUR SOLD EGG OF CRAYEL SOLD CONTOUR SOLD CONTOUR SOLD CONTOUR SECLAMATION SOLD CONTOUR SECLAMATION SOLD CONTOUR SECLAMATION SOLD CONTOUR SOLD CONTOU
	X-SECTION EXISTING GRADE X-SECTION WATER SURFACE SPOT ELEVATION SUBGRADE ELEVATION SUBGRADE ELEVATION FINISH GRADE ELEVATION FINISH GRADE SLOPE 2.33%

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) 462-5634







FOR ARSENAL RESOURCES

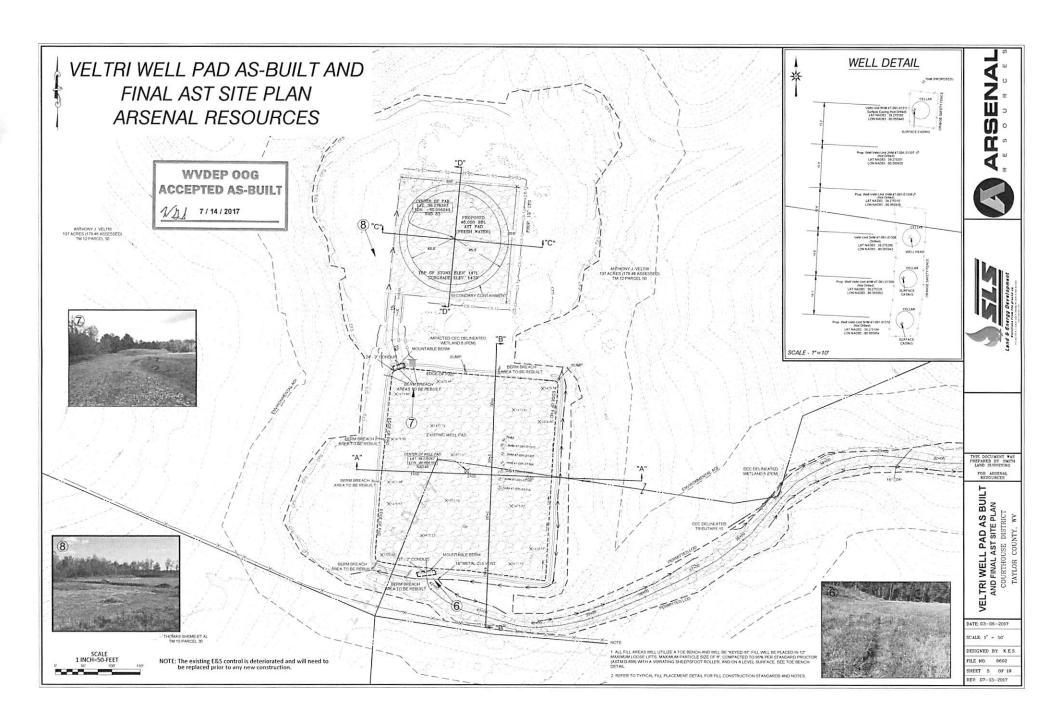
VELTRI WELL PAD AS BUILT AND FINAL AST SITE PLAN COURTHOUSE DISTRICT

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: 179.48 ACRES

SITE LOCATION:
THE VELTER 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 & 259.

PROPERTY DISTURBANCE COMPUTATIONS PARCEL 50 - 14.40 ± ACRES

- 14.40 ± ACRES

LOCATION COORDINATES

PAD SITE ENTRANCE LATITUDE: 59,279329 LONGITUDE: -80.045808 (NAD 83)

CENTER OF WELL PAD LATITUDE: 39.276267 LONGITUDE: -60.056155 (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 VELTEI SITE AND ALL KNOWN UTILITIES WERE NOTED ON A SET OF DESIGN
PLANS PREPARED BY HORRER BROTHERS ENGINEERING DATED 2-24-14. NO NEW
UTILITIES WERE NOTED DURING SLS'S FIELD VISITS ON 10-24-16 & 10-25-16.

FLOODPLAIN NOTE
THE EGISTING ACCESS TO THE VELTRI PAD APPEARS TO CROSS A FLOODPLAIN THAT IS DEPICTED ON FIRM MAP 54091C0120D AND IS ILLUSTRATED USING SHAPEFILES FROM WOLS.

GEOTECHNICAL NOTE

DINT NO GEOTECHNICAL EXPLORATION IS ANTICIPATED.

ENVIRONMENTAL NOTE

ENVIRONMENTAL NOTE
A WETLAND/STREAM DELINEATION WAS PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) ON
4-17-13 & 8-10-13 AND WAS ILLUSTRATED IN A REPORT DATED 6-23-13. ACCORDING TO THIS REPORT II
DIFFERENT STREAMS WERE IDENTIFIED TOTALING 1764.6 LINEAR FEET INSIDE CEC'S AREA OF INVESTIGATION
(A(I)). 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 PLANS AND PERMITS PREPARED AND SUBMITTED
BY CEC. A TOTAL OF 34 LINEAR FEET OF INFACT WAS TO OCCUR ON TRIBUTARY 9 AND A TOTAL OF 0.04
ACRES OF IMPACT WAS TO OCCUR ON WETLANDS 8 & 7. ALL CEC DELINEATED 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 8 OCCURRED WITHIN 100 FEET OF THE WELL PAD LOD.

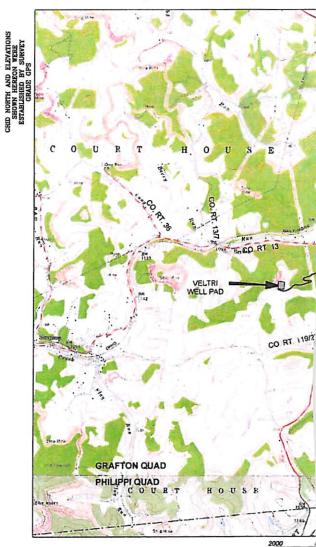
SURVEYOR NOTE

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 KNOWLEDGE AND IS NOT RESPONSIBLE FOR ANY CHANGES AFTER THE DATES MENTIONED THAT COULD ALTER THE TOPOGRAPHY OR DETAILS.

VELTRI WELL PAL 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 Virginia (Section XIV: (Requires that business days be the state of IT'S TH

S-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

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LIST OF DRAWINGS

3 - ACCESS ROAD

4 - ACCESS ROADS

5 - WELL PAD AND ACCESS ROAD

ACCESS ROAD PROFILE

ACCESS ROAD PROFILE

- WELL PAD PROFILE

ACCESS ROAD SECTIONS

ACCESS ROAD SECTIONS

- ACCESS ROAD SECTIONS

12 - ACCESS ROAD SECTIONS

14 - CONSTRUCTION NOTES

- AST PAD & ACCESS ROAD CROSS SECTIONS

AST PAD RECLAMATION

18 - CONSTRUCTION NOTES

19 - CONSTRUCTION NOTES

EXISTING ACCESS COMPLASE V

	<u>LEG</u>	END	
EXISTING		PROPOSED	
INDEX CONTOUR		INDEX CONTOUR	
INTERMEDIATE CONTOUR		INTERMEDIATE CONTOUR	
BOUNDARY LINE		RECLAMATION 2' CONTOUR	
ROAD EDGE OF GRAVEL/DIRT		RECLAMATION 10' CONTOUR -	_
ROAD EDGE OF PAVEMENT		GRADING LIMITS	
ROAD CENTERLINE		PERMITTED LIMITS OF DISTURBANCE	
DITCHLINE		WELL PAD WELL HEAD	
CULVERT			
GUARDRAIL		4" PVC DRAIN PIPE SUMP DRAIN	
FENCELINE		CONTAINMENT BERM	
GATE OVERHEAD UTILITY		PIT/IMPOUNDMENT CL	
OVERHEAD UTILITY R/W		PERIMETER SAFETY FENCE	
POWER POLE	0	ACCESS GATE WITH	
CUY WIRE	-	EMERGENCY LIFELINE	•
TELEPHONE LINE			4
CASLINE	,		
GASLINE R/W		. 25	1
WATERLINE		3.64	古书
WATER WELL		ROCK CONSTRUCTION	350
GAS WELL	₽	ENTRANCE	05
TREELINE			5.4
REFERENCE TREE	O		1
DELINEATED STREAM (PROVIDED		ROAD EDGE OF GRAVEL	
BY MOUNTAINEER KEYSTONE)		ROAD CENTERLINE	_
DELINEATED WETLAND (PROVIDED		V-DITCH W/ CHECK DAMS ->>	-
BY MOUNTAINEER KEYSTONE)	200	DITCH RELIEF	
BUILDING		CULVERT (DRC)	_
BRIDGE		THE CONTRACTOR OF STREET	4
100' WETLAND/STREAM BUFFER		CUARDRAIL	
CEC AREA OF INTEREST		18" COMPOST FILTER SOCK	-13-11-
		18" COMPOST FILTER SOCK	-0516-
		24" COMPOST FILTER SOCK	
		18" TRIPLE STACK COMPOST	
		FILTER SOCK	
		"A".	"A"
			•••
		SECTION TIME 0+00	04
		MATCHLINE	
		X-SECTION GRID INDEX	-
		X-SECTION GRID INTERMEDIATE	
		X-SECTION PROPOSED GRADE	_
		X-SECTION EXISTING GRADE	
		X-SECTION WATER SURFACE	
		SPOT ELEVATION 100	
		SUBGRADE ELEVATION XXX	
		SUBGRADE SLOPE FINISH GRADE ELEVATION	
		FINISH GRADE SLOPE	*

Vest Virginia -4848 State Law apter 24-C) ou call two ore you dig in est Virginia. LAW!!

Lensel J. Sopolb 5-25-17

OPERATOR

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ENGINEER/SURVEYOR

SMITH LAND SURVEYING, INC. 12 VANHORN DRIVE P.O. BOX 150 GLENVILLE, WV 26351 PHONE: (304) 462-5634

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

DATE: 03-06-2017 DESIGNED BY: K.E.S. FILE NO. 8602 SHEET 1 OF 19 REV: 05-23-2017