



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 4HM
47-091-01340-00-00

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 4HM
Farm Name: VELTRI, ANTHONY J.
U.S. WELL NUMBER: 47-091-01340-00-00
Horizontal 6A / New Drill
Date Issued: 10/2/2017

Promoting a healthy environment.

10/06/2017

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

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

1) Well Operator: Arsenal Resources 494519412 Taylor Courthoyn Grafton
Operator ID County District Quadrangle

2) Operator's Well Number: Veltri 4HM Well Pad Name: Veltri

3) Farm Name/Surface Owner: Anthony Veltri Public Road Access: CR's 119/28, 119/27, 13/6

4) Elevation, current ground: 1474 Elevation, proposed post-construction: 1474

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale, 7881 ft (Top)- 7968 ft (Bottom), 87 ft, 0.5 psi/ft

8) Proposed Total Vertical Depth: 7954 ft

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 15459 ft

11) Proposed Horizontal Leg Length: 7083 ft

12) Approximate Fresh Water Strata Depths: 550 ft

13) Method to Determine Fresh Water Depths: Offsetting wells reported water depths (091-00825, 091-00826, 091-00967, 091-00991)

14) Approximate Saltwater Depths: 2010 ft.

15) Approximate Coal Seam Depths: Approximate Coal Seam Depths: Harlow - 420, Bakerstown - 503, Brush Creek - 598, Upper Freeport - 673, Lower Freeport - 720, Upper Kittanning - 780, Middle Kittanning - 818, Lower Kittanning - 848

16) Approximate Depth to Possible Void (coal mine, karst, other): None known

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No None known

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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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#	15,459'	15,459'	TOC @ 2,550'MD
Tubing							
Liners							

Ernest L. Hayward 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% Calcium	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% CaCl2	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:				

WV Department

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 1/2" 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- 1/4" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig will then continue to drill an 8- 3/4" hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 1/2" 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 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 4HM 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 pre-frac well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and ARSENAL RESOURCES if any changes in water, gas production, pressure or other anomalies are identified.



2. Reporting

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

4709101340

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Veltri 4HM

**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

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 4709101340)
- 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. Vertical: Freshwater Horizontal: Synthetic oil based mud.

-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 *William Veigel*
Company Official (Typed Name) William Veigel
Company Official Title Designated Agent

Office of Oil and Gas

JUN 01 2017

WV Department of
Environmental Protection

Subscribed and sworn before me this 30th day of MAY

Carolinda Flanagan
My commission expires 9/15/2021

20 17
Notary Public

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 603
Lumbersville, WV 26033
My Commission Expires September 15, 2021

Arsenal Resources

Proposed Revegetation Treatment: Acres Disturbed 14.4 Prevegetation pH 6.8 Average

Lime 4 Tons/acre or to correct to pH 6.0-7.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Annual Rye	40
Field Bromegrass	40
Winter Rye	168
Winter Wheat	180

Seed Type	lbs/acre
Swisher Meadow Mix	100

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *David L. Snyder*

Comments: Pre-seed / mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade E&S where needed per WVDEP E&S manual, if necessary.

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Environmental Protection

Title: OIL & GAS INSPECTION Date: 5-25-17

Field Reviewed? () Yes () No



SITE SAFETY PLAN

VELTRI 4HM WELL PAD

911 Address:

4728 Webster Pike

Grafton, WV 26354

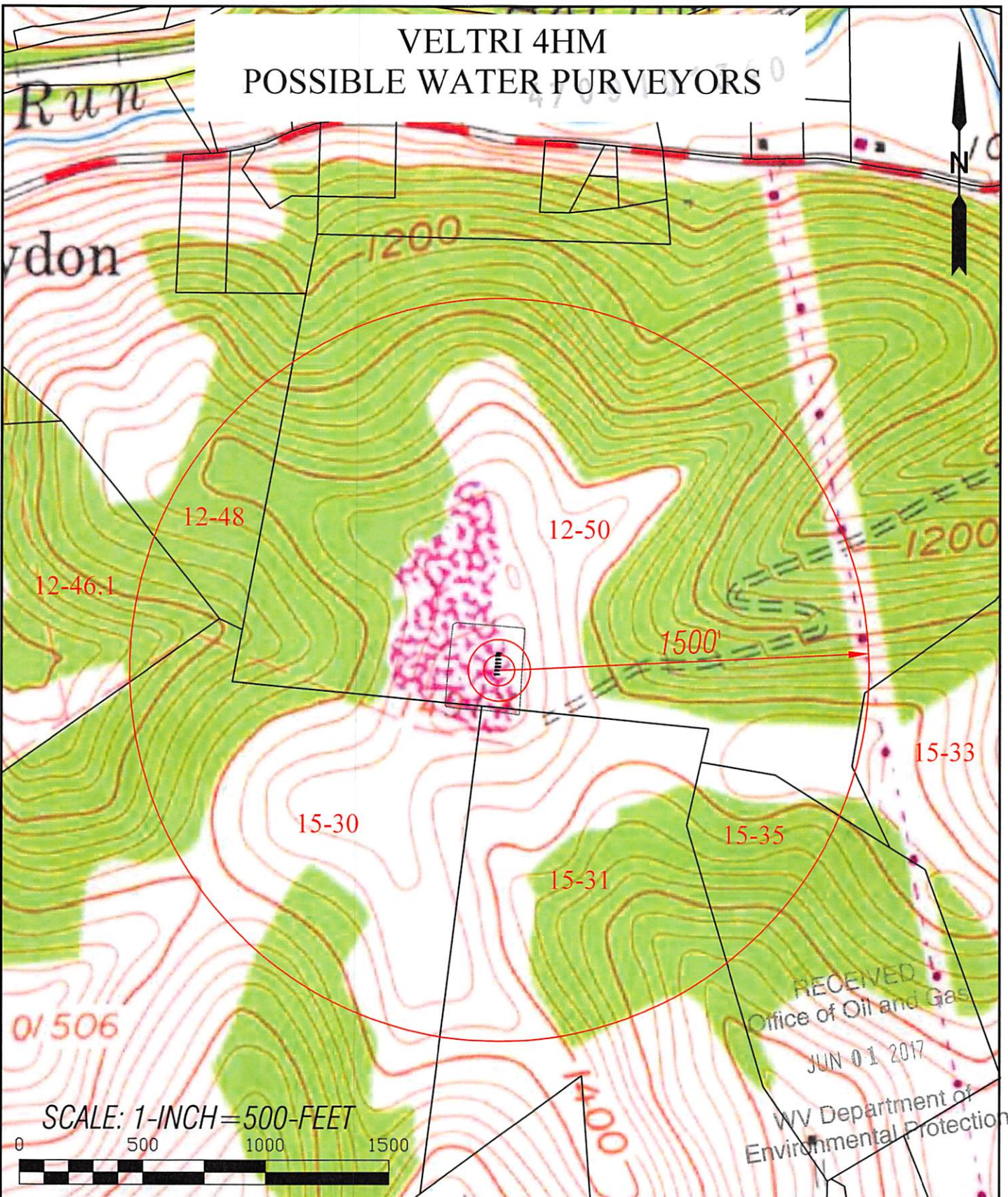
Samuel L. Reynolds
5-25-17


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VELTRI 4HM POSSIBLE WATER PURVEYORS



				TOPO SECTIONS OF:		OPERATOR:
				GRAFTON WV 7.5' QUAD		
DRAWN BY:	FILE NO.:	DATE:	CADD FILE:	COUNTY:	DISTRICT:	65 Professional Place. Suite 200
K.G.M.	8602	05-22-17	@SLSWATERPURVEYORS.DWG	TAYLOR	COURTHOUSE	Bridgeport, WV 26330

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

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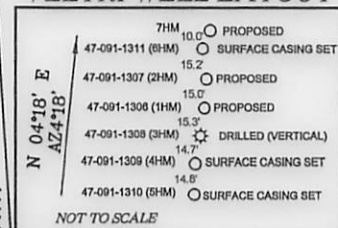
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VELTRI 4HM WELL TIES

LINE	BEARING	DISTANCE
L1	S 58°07' W	2378.84'
L2	S 08°04' E	1514.43'
L3	N 70°33' E	443.75'
L4	S 18°03' E	636.60'

VELTRI WELL LAYOUT



LEGEND

LEASE LINE	---
SURFACE LINE	----
WELL LATERAL	-----
OFFSET LINE	-----
TIE LINE	-----
CREEK	~~~~~
ROAD	=====
FENCE LINE	-----
COUNTY ROUTE	-----
STATE ROUTE	-----
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙

TRACT #	SURFACE OWNER	SURFACE ACREAGE	OIL & GAS LEASE #
12-50	ANTHONY VELTRI	179.46±	00003952 00003954 00003955
15-31	THOMAS R. SHEME JR. ET AL.	61.56±	00003514
15-32	GEORGE P. STANTON III	22.29±	00007231
15-35	JEFFREY MINARD	26.51±	00003505
15-39	DANNY A. & BRENDA J. CATHELL	5.42±	00004191
15-39.2	THOMAS R. SHEME JR. ET AL.	61.56±	00004191
15-40	STATHIS ARIKOS	29.74±	00004191
15-41.1	DAVID J. & PREMA K. WILLIAMS	4.02±	00004191
15-41.2	STATHIS ARIKOS	148.86±	00004191
15-41.4	DANNY A. & BRENDA J. CATHELL	1.82±	00004191
15-56	JACK B. & BEATRICE L. MARSH	250.20±	00003835
	B & O RAILROAD	10.51±	00004191
	B & O RAILROAD	2.01±	00004191
	STATE OF W.V. (BEVERLY-FAIRMONT TURNPIKE - U.S. ROUTES 119 & 250)	23±	00006656

NAD'83 GRID NORTH

LONGITUDE (NAD'83) 80°02'30"

5,987' T.H.

13,162' B.H.

**ARSENAL RESOURCES
VELTRI 4HM**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 282,847.0	E. 1,811,115.1
NAD'83 GEO.	LAT-(N) 39.275230	LONG-(W) 80.055955
NAD'83 UTM (M)	N. 4,347,744.6	E. 581,429.6
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 282,389.5	E. 1,811,730.7
NAD'83 GEO.	LAT-(N) 39.273984	LONG-(W) 80.053771
NAD'83 UTM (M)	N. 4,347,608.3	E. 581,619.5
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 275,654.4	E. 1,813,925.1
NAD'83 GEO.	LAT-(N) 39.255530	LONG-(W) 80.045875
NAD'83 UTM (M)	N. 4,345,567.4	E. 582,322.1

TRACT #	SURFACE OWNER	ACREAGE
15-30	THOMAS R. SHEME JR., & JAYPRADHA WHITE	148.37±
15-32	GEORGE P. STANTON III	22.29±
15-32.2	JAMES E. FITZWATER	2.59±
15-32.3	JAMES E. FITZWATER	0.24±
15-35	JEFFREY MINARD	26.51±
15-36	JAMES D. MCVICKER	54.83±
15-41	ELDON L. FINDLEY	1.41±
15-41.5	DANNY A. & BRENDA J. CATHELL & SURV	0.38±
16-31	CARRIAGEVIEW ENERGY LLC	100.00±

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.

SLS
 Land & Energy Development
 Solutions from the ground up.
 P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26031 • (304) 462-5834
 www.slsurveys.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.
677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE MAY 25, 20 17

REVISED _____, 20 _____

OPERATORS WELL NO. VELTRI 4HM

API WELL NO. 47 - 091 - 01340 M
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8602P4HMR2.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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



WELL TYPE: OIL _____ GAS X INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION 1473.12' - AS BUILT WATERSHED LONG RUN

DISTRICT COURTHOUSE COUNTY TAYLOR QUADRANGLE GRAFTON 7.5'

SURFACE OWNER ANTHONY J. VELTRI ACREAGE 179.46±

ROYALTY OWNER ANTHONY J. VELTRI ET AL ACREAGE 179.46±

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS

ESTIMATED DEPTH 15,459' TMD / 7,954' TVD

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT WILLIAM VEIGEL

ADDRESS 6031 WALLACE RD. EXT. SUITE 300 ADDRESS 65 PROFESSIONAL PLACE
WEXFORD, PA 15090 BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT

**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
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See Attached

4709101345


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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 4HM

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	
	PDC Mountaineer, LLC	River Ridge Energy, LLC			

JUN 23 2017

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 Corporation		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			
00007231	OCMAHRR, LLC, by Richard F. Rager, its President	Mar Key, LLC	0.15	68/150	22.29

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00003505	James V. Rinker and Margaret E. Rinker, his wife	Petroleum Development Corporation	0.125	40/709 42/110 43/197 44/338	26.51
	Petroleum Development Corporation	PDC Mountaineer, LLC		30/698	
	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			
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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Business and Licensing

Online Data Services Help

Business Organization Detail

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DOMINION TRANSMISSION, INC.

Organization Information								
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			

Organization Information			
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	4309101340
At Will Term Years		Par Value	0.000000
Authorized Shares	0		

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Addresses	
Type	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
Type	Address

10/06/2017

Officers	
Type	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
Type	Name/Address

Name 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	

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Business Organization Detail

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CONSOL GAS COMPANY

Organization Information								
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 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	
Type	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
Type	Address

10/06/2017

Officers	
Type	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
Type	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	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

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Name	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	
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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4702101340

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.

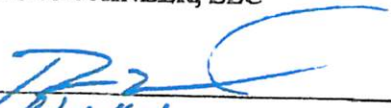
[Signature Page Follows]

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

By: 
Name: Robert Koval
Title: CEO

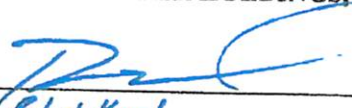
PDC MOUNTAINEER, LLC

By: 
Name: Robert Koval
Title: CEO

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PDC MOUNTAINEER HOLDINGS, LLC

By: 
Name: Robert Koval
Title: CEO

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Agreement to Drill, Complete and Operate Oil & Gas Wells

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

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

[Signature Page Follows]

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

ARSENAL RESOURCES LLC

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

RIVER RIDGE ENERGY, LLC

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

RIVER RIDGE HOLDINGS, LLC

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

10/06/2017



People Powered. Asset Strong.

May 25, 2017

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

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WV Department of
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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,

A handwritten signature in blue ink that reads 'WT Fahey III'.

William T. Fahey III
Senior Title Attorney

4709101340

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

10/06/2017

**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 4HM
Well Pad Name: Veltri

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>581,429.6</u>
County:	<u>Taylor</u>		Northing:	<u>4,347,744.6</u>
District:	<u>Courthouse</u>	Public Road Access:	<u>CR's 119/28, 119/27, 13/6</u>	
Quadrangle:	<u>Grafton</u>	Generally used farm name:	<u>Veltri</u>	
Watershed:	<u>Long Run</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

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 <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<p align="center">OOG OFFICE USE ONLY</p> <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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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.

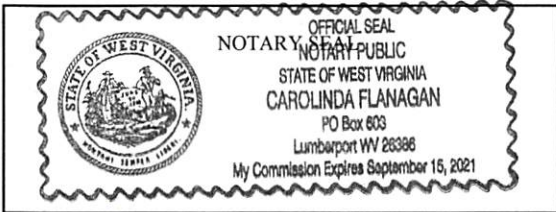
10/06/2017

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
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



Subscribed and sworn before me this 31st day of MAY 2017.

Carolinda Flanagan 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.

4709101340

WW-6A
(9-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Veltri 4HM
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 WELL WORK** **CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT**

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE** **REGISTERED MAIL** **METHOD OF DELIVERY THAT REQUIRES A 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)
Name: Anthony Veltri
Address: RR 2 Box 416
Grafton, WV 26354
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: CoalQuest Development LLC c/o Chuck Duckworth
Address: 100 Tygart Drive
Grafton, West Virginia 26354
 COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Thomas Sheme
Address: 722 Nuzum Road
Grafton, WV 26354
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attached
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

10/06/2017

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

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.**

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.

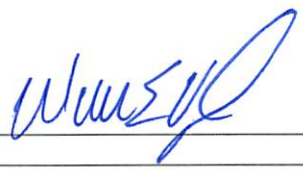
A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment 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)

API NO. 47- _____ - _____
OPERATOR WELL NO. Veltri 4HM
Well Pad Name: Veltri

Notice is hereby given by:



Well Operator: Arsenal Resources
Telephone: 724-940-1224
Email: cflanagan@arsenalresources.com

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.



Subscribed and sworn before me this 31ST day of MAY, 2017.

Carolinda Flanagan Notary Public
My Commission Expires 09/15/2021

4709101340

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 ✍

4709101340

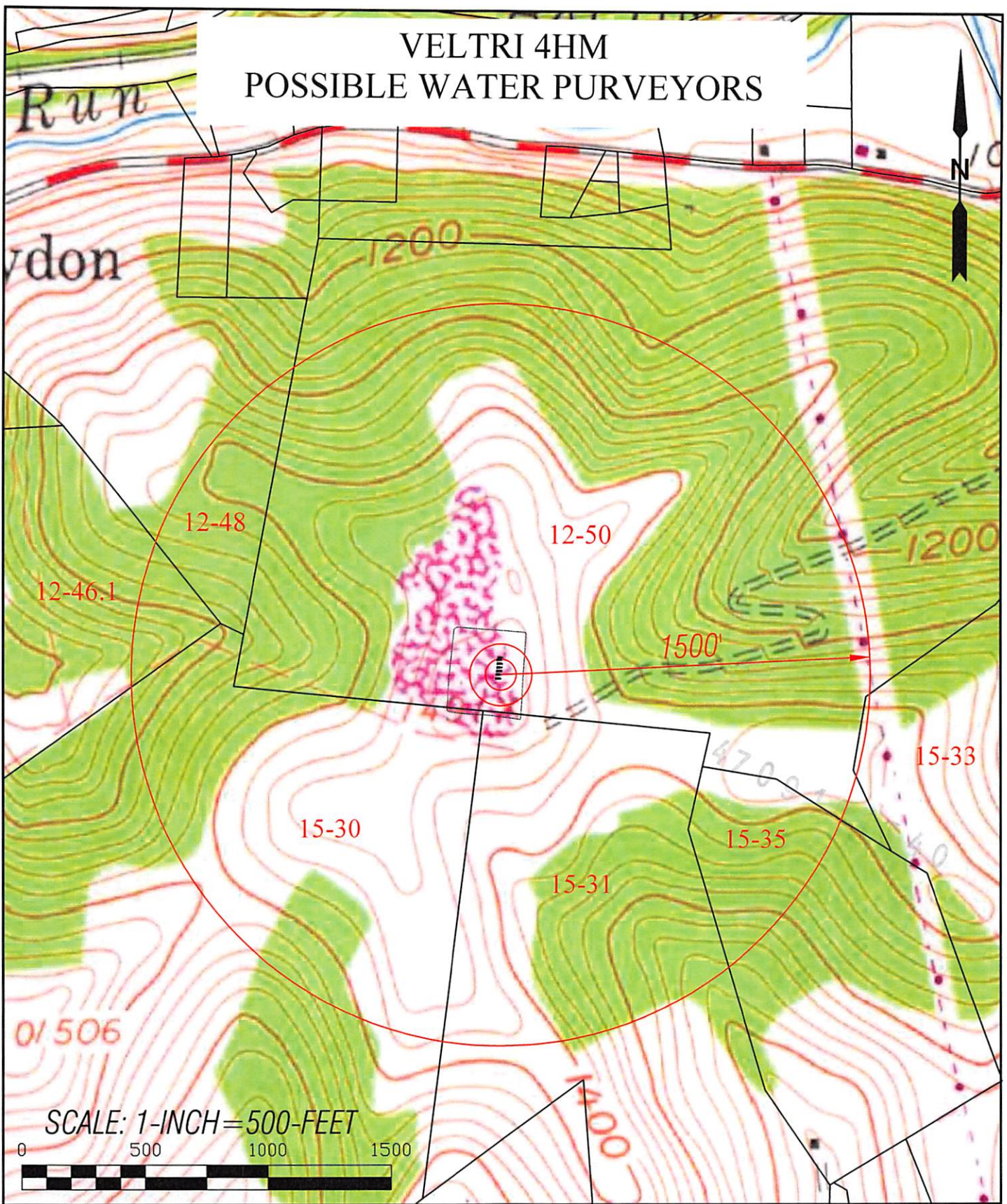



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15	35	MINARD JEFFREY	RR 2 BOX 426 , GRAFTON , WV 26354

4709101340

VELTRI 4HM POSSIBLE WATER PURVEYORS



				TOPO SECTIONS OF:		OPERATOR: ARSENAL RESOURCES 65 Professional Place, Suite 200 Bridgeport, WV 26330
				GRAFTON WV 7.5' QUAD		
DRAWN BY K.G.M.	FILE NO. 8602	DATE 05-22-17	CADD FILE: @WATERPURVEYOR.DWG	COUNTY	DISTRICT	
				TAYLOR	COURTHOUSE	

10/06/2017

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

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

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

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: <u>Anthony Veltri</u>	Name: _____
Address: <u>RR 2 Box 416</u>	Address: _____
<u>Grafton, WV 26354</u>	_____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>581,429.6</u>
County: <u>Taylor</u>		Northing: <u>4,347,744.6</u>
District: <u>Courthouse</u>	Public Road Access: <u>CR's 119/28, 119/27, 13/6</u>	
Quadrangle: <u>Grafton</u>	Generally used farm name: <u>Veltri</u>	
Watershed: <u>Long Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: <u>Arsenal Resources</u>	Address: <u>6031 Wallace Road Ext., Suite 300</u>
Telephone: <u>724-940-1204</u>	<u>Wexford, PA 15090</u>
Email: <u>cflanagan@arsenalresources.com</u>	Facsimile: <u>304-848-9134</u>

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

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 4HM Well Site
47-091-01340

Dear Mr. Martin,

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,

A handwritten signature in cursive script that reads "Gary K. Clayton".

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

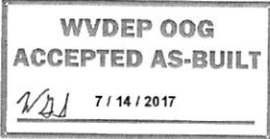
Cc: Kelley Eddy
Arsenal Resources
CH, OM, D-4
File

4709101340

Veltri 4HM			
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
 1412 PEB 55
 COURTHOUSE DISTRICT
 TAYLOR COUNTY, WVA
 TOTAL PROPERTY AREA 179.44 ACRES



SITE LOCATION:
 THE VELTRI WELL PAD IS LOCATED ON THE WESTERN SIDE U.S. ROUTES 119 & 206, APPROXIMATELY 0.15 MILES SOUTHWEST OF THE INTERSECTION OF COUNTY ROUTE 13 AND U.S. ROUTES 119 & 206.

PROPERTY DISTURBANCE COMPUTATIONS

PAPERS 50 = 14.45 ± ACRES
 PERMITTED 100 = 14.45 ± ACRES

LOCATION COORDINATES

PAD SITE ENTRANCE
 LATITUDE: 39.879209 LONGITUDE: -80.048408 (NAD 83)
 CENTER OF WELL PAD
 LATITUDE: 39.879287 LONGITUDE: -80.056150 (NAD 83)
 CENTER OF TANK PAD
 LATITUDE: 39.879293 LONGITUDE: -80.056244 (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 KNOWN UTILITIES WERE NOTED ON A SET OF DESIGN PLANS PREPARED BY HORNER 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 EXISTING ACCESS TO THE VELTRI PAD APPEARS TO CROSS A FLOODPLAIN THAT IS DEPICTED ON FIRM MAP 5498HC0120D AND IS ILLUSTRATED USING SHAPPELL'S FROM W/CE.

GEOTECHNICAL NOTE
 AT THIS POINT NO GEOTECHNICAL EXPLORATION IS ANTICIPATED.

ENVIRONMENTAL NOTE
 A WETLAND/STREAM DELINEATION WAS PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) ON 4-17-13 & 4-10-13 AND WAS ILLUSTRATED IN A REPORT DATED 4-26-13. ACCORDING TO THIS REPORT 11 DIFFERENT STREAMS WERE IDENTIFIED TOTALING 1764.6 LINEAR FEET INSIDE CEC'S AREA OF INVESTIGATION (AOI). ALSO, THERE APPEARS TO BE A TOTAL OF 2 WETLANDS IDENTIFIED TOTALING 0.194 ACRES WITHIN CEC'S AOI. ACCORDING TO HORNER BROS. ENGINEER'S SITE PLANS AND PERMITS PREPARED AND SUBMITTED BY CEC, A TOTAL OF 54 LINEAR FEET OF IMPACT WAS TO OCCUR ON TRIBUTARY 8 AND A TOTAL OF 0.04 ACRES OF IMPACT WAS TO OCCUR ON WETLANDS 6 & 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 20M. 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.

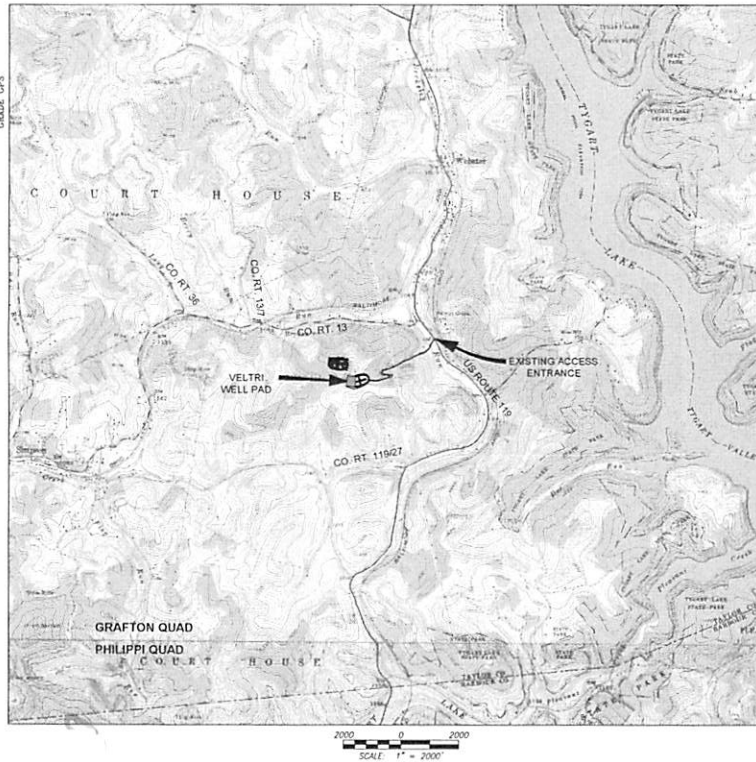
SURVEYOR NOTE
 THE CERTIFICATION OF THIS DRAWING ONLY APPLIES TO THE TOPOGRAPHY AND DETAILS AS GENERATED FROM FIELD DATA OBTAINED ON 10/24/16 & 10/25/16. SLS HAS NO KNOWLEDGE AND IS NOT RESPONSIBLE FOR ANY CHANGES AFTER THE DATES MENTIONED THAT COULD ALTER THE TOPOGRAPHY OR DETAILS.

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.

GRID NORTH AND ELEVATIONS SHOWN ON THIS MAP ESTABLISHED BY SURVEY GRADE CPS



LIST OF DRAWINGS

- 1 - COVER SHEET
- 2 - OVERALL SHEET INDEX
- 3 - ACCESS ROAD
- 4 - ACCESS ROADS
- 5 - WELL PAD AND ACCESS ROAD
- 6 - ACCESS ROAD PROFILE
- 7 - ACCESS ROAD PROFILE
- 8 - WELL PAD PROFILE
- 9 - ACCESS ROAD SECTIONS
- 10 - ACCESS ROAD SECTIONS
- 11 - ACCESS ROAD SECTIONS
- 12 - ACCESS ROAD SECTIONS
- 13 - AST PAD
- 14 - CONSTRUCTION NOTES
- 15 - AST PAD & ACCESS ROAD CROSS SECTIONS
- 16 - AST PAD RECLAMATION
- 17 - CONSTRUCTION NOTES
- 18 - CONSTRUCTION NOTES
- 19 - CONSTRUCTION NOTES

LEGEND	
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	CRADING LIMITS
ROAD CENTERLINE	PERMITTED LIMITS OF DISTURBANCE
DITCHLINE	WELL PAD
CULVERT	WELL HEAD
GUARDRAIL	4" PVC DRAIN PIPE
FENCELINE	RUMP DRAIN
GATE	CONTAINMENT BERM
OVERHEAD UTILITY	PIT/IMPONDEMENT CL
OVERHEAD UTILITY R/W	PENETRATION SAFETY FENCE
POLES POLE	ACCESS GATE, WITH EMERGENCY LIFELINE
CITY WIRE	
TELEPHONE LINE	
GASLINE	
GASLINE R/W	
WATERLINE	ROCK CONSTRUCTION ENTRANCE
WATER WELL	
GAS WELL	
TRAILLINE	
REFERENCE TREE	
DELINEATED STREAM (PROVIDED BY MOUNTAINEER KEYSTONE)	ROAD EDGE OF GRAVEL
	ROAD CENTERLINE
	V-SITCH W/ CHECK DAMS
DELINEATED WETLAND (PROVIDED BY MOUNTAINEER KEYSTONE)	DITCH RELIEF
BUILDING	CULVERT (DR)
	RIP-RAP OUTLET PROTECTION
BRIDGE	GUARDRAIL
100' WETLAND/STREAM BUFFER	
CEC AREA OF INTEREST	18" COMPOST FILTER SOCK
	18" COMPOST FILTER SOCK
	24" COMPOST FILTER SOCK
	18" TRIPLE STACK COMPOST FILTER SOCK
	SECTION LINE
	MATCHLINE
	X-SECTION GRID INDEX
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	X-SECTION PROPOSED GRADE
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	X-SECTION WATER SURFACE
	SPOT ELEVATION
	SUBGRADE ELEVATION
	SUBGRADE SLOPE
	FINISH GRADE ELEVATION
	FINISH GRADE SLOPE

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 (Section XIV, Chapter 24-C)
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 SMITH LAND SURVEYING, INC
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 P.O. BOX 100
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 PHONE: (304) 482-5834



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

DATE: 03-06-2017
 SCALE: 1" = 2000'
 DESIGNED BY: K.E.S.
 FILE NO.: 8602
 SHEET 1 OF 19
 REV: 07-13-2017

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

**WVDEP OOG
ACCEPTED AS-BUILT**

WJL 7/14/2017

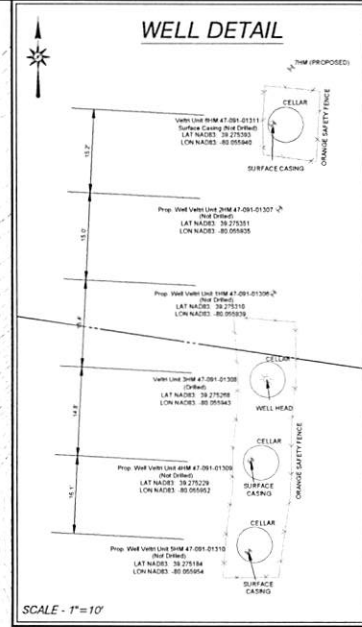
ANTHONY J. VELTRI
137 ACRES (179.48 ASSESSED)
TM 12 PARCEL 50



THOMAS GHMIE ET AL
TM 15 PARCEL 30

NOTE: The existing E&S control is deteriorated and will need to be replaced prior to any new construction.

SCALE
1 INCH=50 FEET



SCALE - 1"=10'

- NOTE
- 1 ALL FILL AREAS WILL UTILIZE A TOE BENCH AND WILL BE "KEYED IN". FILL WILL BE PLACED IN 12" MAXIMUM LOOSE LIFTS, MAXIMUM PARTICLE SIZE OF 6", COMPACTED TO 90% PER STANDARD PROCTOR (ASTM D-698) WITH A VIBRATING SHEEPSFOOT ROLLER, AND ON A LEVEL SURFACE. SEE TOE BENCH DETAIL.
 - 2 REFER TO TYPICAL FILL PLACEMENT DETAIL FOR FILL CONSTRUCTION STANDARDS AND NOTES.



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

DATE: 03-06-2017
SCALE: 1" = 50'
DESIGNED BY: K.E.S.
FILE NO.: 8602
SHEET 5 OF 19
REV: 07-13-2017

PROJECT INFORMATION

PROJECT NAME: VELTRI

SURFACE OWNERS:

ANTHONY J. VELTRI
TM 12 PAR 50
COURTHOUSE DISTRICT
TAYLOR COUNTY, WV
TOTAL PROPERTY AREA: 179.48 ACRES

SITE LOCATION:

THE VELTRI 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

PARCEL 50 = 14.40 ± ACRES
PERMITTED LOD = 14.40 ± ACRES

LOCATION COORDINATES

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

CENTER OF WELL PAD
LATITUDE: 39.279367 LONGITUDE: -80.056155 (NAD 83)

CENTER OF TANK PAD
LATITUDE: 39.276393 LONGITUDE: -80.056244 (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 KNOWN UTILITIES WERE NOTED ON A SET OF DESIGN PLANS PREPARED BY HORNER 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 EXISTING ACCESS TO THE VELTRI PAD APPEARS TO CROSS A FLOODPLAIN THAT IS DEPICTED ON FIRM MAP 64091C01200 AND IS ILLUSTRATED USING SHAPEFILES FROM WYGIS.

GEOTECHNICAL NOTE

AT THIS POINT NO GEOTECHNICAL EXPLORATION IS ANTICIPATED.

ENVIRONMENTAL NOTE

A WETLAND/STREAM DELINEATION WAS PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) ON 4-17-13 & 5-10-13 AND WAS ILLUSTRATED IN A REPORT DATED 5-26-13. ACCORDING TO THIS REPORT 11 DIFFERENT STREAMS WERE IDENTIFIED TOTALING 1764.6 LINEAR FEET INSIDE CEC'S AREA OF INVESTIGATION (AOI). ALSO, THERE APPEARS TO BE A TOTAL OF 9 WETLANDS IDENTIFIED TOTALING 0.194 ACRES WITHIN CEC'S AOI. ACCORDING TO HORNER BROS. ENGINEERS' SITE PLANS AND PERMITS PREPARED AND SUBMITTED BY CEC, A TOTAL OF 54 LINEAR FEET OF IMPACT WAS TO OCCUR ON TRIBUTARY 9 AND A TOTAL OF 0.04 ACRES OF IMPACT WAS TO OCCUR ON WETLANDS 6 & 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 3EM. 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 KNOWLEDGE AND IS NOT RESPONSIBLE FOR ANY CHANGES AFTER THE DATES MENTIONED THAT COULD ALTER THE TOPOGRAPHY OR DETAILS.

VELTRI WELL PAD FINAL AS-BUILT ARSENAL RES

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

SITUATE ON THE WATERS OF LO
IN COURTHOUSE DISTRICT, TAY

GRID NORTH AND ELEVATIONS
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MISS Utility of
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JUN 14 2017

WV Department of
Environmental Protection

AS-BUILT AND FINAL SITE PLAN FOR ASSESSMENT SOURCES

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

FOR BERKELEY RUN AND TIGART
VALLEY, TAYLOR COUNTY, WEST VIRGINIA.

LIST OF DRAWINGS

- 1 - COVER SHEET
- 2 - OVERALL SHEET INDEX
- 3 - ACCESS ROAD
- 4 - ACCESS ROADS
- 5 - WELL PAD AND ACCESS ROAD
- 6 - ACCESS ROAD PROFILE
- 7 - ACCESS ROAD PROFILE
- 8 - WELL PAD PROFILE
- 9 - ACCESS ROAD SECTIONS
- 10 - ACCESS ROAD SECTIONS
- 11 - ACCESS ROAD SECTIONS
- 12 - ACCESS ROAD SECTIONS
- 13 - AST PAD
- 14 - CONSTRUCTION NOTES
- 15 - AST PAD & ACCESS ROAD CROSS SECTIONS
- 16 - AST PAD RECLAMATION
- 17 - CONSTRUCTION NOTES
- 18 - CONSTRUCTION NOTES
- 19 - CONSTRUCTION NOTES






LEGEND	
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
CULVERT	WELL HEAD
GUARDRAIL	4" PVC DRAIN PIPE
FENCELINE	SUMP DRAIN
GATE	CONTAINMENT BERM
OVERHEAD UTILITY	PIT/IMPONEMENT CL.
OVERHEAD UTILITY R/W	PERIMETER SAFETY FENCE
POWER POLE	ACCESS GATE WITH EMERGENCY LIFELINE
GUY WIRE	
TELEPHONE LINE	
GASLINE	
GASLINE R/W	
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Samuel L. Reynolds 5-25-17

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THIS DOCUMENT WAS
PREPARED BY: SMITH
LAND SURVEYING

FOR: ARSENAL
RESOURCES

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AND FINAL AST SITE PLAN**
COURTHOUSE DISTRICT
TAYLOR COUNTY, WV

DATE: 03-06-2017

SCALE: 1" = 2000'

DESIGNED BY: K.E.S.

FILE NO. 8602

SHEET 1 OF 19

REV: 05-23-2017