west virginia department of environmental protection

| Office of Oil and Gas | Jim Justice, Governor |
| :--- | ---: |
| $60157^{\text {th }}$ Street, S.E. | Austin Caperton, Cabinet Secretary |
| Charleston, WV 25304 | www.dep.wv.gov |
| (304) $926-0450$ |  |

(304) 926-0450
fax: (304) 926-0452
Wednesday, October 18, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill
ARSENAL RESOURCES LLC
6031 WALLACE ROAD EXTENSION SUITE 300
WEXFORD, PA 15090
Re: Permit approval for SHEME 205
47-091-01337-00-00

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.


Operator's Well Number: SHEME 205 Farm Name: BURTON, DAVID \& LUELLA
U.S. WELL NUMBER:47-091-01337-00-00

Horizontal 6A / New Drill
Date Issued: 10/18/2017

Promoting a healthy environment.

## 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 $\S 22-6 \mathrm{~A}-8 \mathrm{~g}(6)(\mathrm{B})$ 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

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 | Courthot | Grafton |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Operator ID | County | District | Quadrangle |
| 2) Operator's Well Number: 205 |  |  | Well Pad Name: Sheme |  |  |  |
| 3) Farm Name/Surface Owner: David \& Luella Burton Pub |  |  |  | Public Road Access | 119/250, CR |  |
| 4) Elevation, current ground: 1385 |  |  | Elevation, proposed post-construction: 1388.5 |  |  |  |
| 5) Well Type | a) Gas <br> Other <br> (b)If Gas | O | Underground Storage |  |  |  |
|  |  |  |  |  |  |  |
|  |  | x | Deep |  |  |  |
|  |  | X |  |  |  |  |

6) Existing Pad: Yes or No No
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus Shale, 7813.5 ft (Top) - 7895.5 ft (Bottom), $82 \mathrm{ft}, 0.5 \mathrm{psi} / \mathrm{ft}$
8) Proposed Total Vertical Depth: 7888 ft
9) Formation at Total Vertical Depth: Marcellus Shale
10) Proposed Total Measured Depth: 19982 ft
11) Proposed Horizontal Leg Length: 11501 ft
12) Approximate Fresh Water Strata Depths: 410ft
13) Method to Determine Fresh Water Depths: Offsetting wells reported water depths (091-00128, 091-00130, 091-00137, 091-00612, 091-00826)
14) Approximate Saltwater Depths: None Reported

15) Approximate Depth to Possible Void (coal mine, karst, other): None known
16) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?

Yes $\qquad$ No $\underline{X}$
(a) If Yes, provide Mine Info: Name: $\qquad$
Depth: $\qquad$
Seam: $\qquad$
Owner: $\qquad$
Office of Oil and Gas

## MAY 262017

WW-6B
API NO. 47- 091
OPERATOR WELL NO. 205
Well Pad Name: Shame
18)

CASING AND TUBING PROGRAM





$$
047-091-01337
$$

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

The well will be started with a conductor rig drilling a $36^{\prime \prime}$ hole to Conductor programmed depth then running $24^{\circ}$ 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 $171 / 2^{n}$ hole and drill to fresh water casing (Surface) to the programmed depth, Run $13-3 / 8^{\prime \prime}$ casing and cement to surface. The rig will continue drilling a 12$1 / n^{n}$ intermediate hole to the programmed depth, run $9-5 / 8^{\prime \prime}$ casing and cement to surface. The rig with
then continue to drill an $8-3 / /^{n}$ hole to a designed KOP W/e will then star section to the programmed total measured depth, run $51 / 2^{\prime \prime}$ casing and cement according and lateral section to the programmed total measured depth, run $51 / 2^{\prime \prime}$ 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. psi.
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): $\mathbf{2 5 . 1}$

$$
\text { 22) Area to be disturbed for well pad only, less access road (acres): } 6.8
$$

23) Describe centralizer placement for each casing string:
$24^{\prime \prime}$ - No centralizers $133 / 8^{\prime \prime}$ - one bow spring centralizer on every other joint $95 / 8^{\prime \prime}$ - one bow spring centralizer every third joint from TD to surface $51 / 2^{\prime \prime}$ - 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:

$$
\begin{aligned}
& 24^{" 1} \text { will be grouted from surface. The 13-3/8" casing will be comented to surface with Class A cement and no graater than } 3 \% \text { CaCl ( calciurn chioride). The }
\end{aligned}
$$

ged as an extender (increased purmpability and fluld loss), a deffoaming agant to decrasse cement foaming during mbing to insure the cement to of proper weight
achlive a "ilght-angla" set) durfing 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,
bante-weighted mud system with such properties as to build a fiter-cake on the face to the bor barite-welghted mud system with such properties as to build a filter-cake on the face to the bore-hole. This will provide lubricity as weil as stabillzing 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 dril pipe, load the hole, puil 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 . The weigiti indicator on the rig will be monltored for any while watching the shakers for signs of cuttings. Once at the breve of the curve pipe pulled across and circulate $2 X$ bottome up pumping $2 X$ bottoms up. We will pull three stands and fill the hole until we reach the vertical bection of the will rotated while

[^0]047-091-01337


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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 Barbour County, WV prior to hydraulic fracturing at the following ARSENAL RESOURCES wells on the SHEME 205 Pad.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,900'TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Benson formation (approximately 4,500' TVD).
The plan is being implemented as an additional safety measure to be utilized in conjunction with best management practices and emergency action plans for this site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the Division of Oil and Gas is notified of the timeline, as well as any issues that may arise during fracturing.

## 1. Communications with Conventional Operators.

ARSENAL RESOURCES, using available data (WV Geological Survey, WVDEP Website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in Attachment A. Upon approval of this plan, ARSENAL RESOURCES will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in Attachment B.
The letter provides recommendations to these conventional operators to 1 ) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to ARSENAL RESOURCES and the OOG in the event of any changes in their well conditions.
Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

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

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


Click or tap to enter a date.

## Alliance

Address
State
RE: Click or tap here to enter text.

## Dear Sir/Madam,

Arsenal Resources has developed a Marcellus pad Sheme 205HM, located in Taylor County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,900' TVD) and existing conventional natural gas wells included in the attached well list for which you are believed to be the operator.

Arsenal anticipates conducting hydraulic fracturing at the Sheme 205HM Pad during the Quarter of 2016. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our newly planned wells. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during and after fracturing operations:

1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
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 $3,000 \mathrm{ps}$ or other necessary equipment for wellhead integrity.
4. Notify the OOG and MK if any changes in water, gas production, pressure or other anomalies are identified.

Please feel free to contact me at 724-940-1202 with any questions or comments. You may also contact the WV Office of Oil and Gas at 304-926-0440.

Sincerely,

## Kelly Eddy

Regulatory Compliance Specialist

## FLUIDS/ CUTTINGS DISPOSAL \& RECLAMATION PLAN

Operator Name Arsenal Resources
OP Code 494519412

## Watershed (HUC 10) Long Run \& Right Fork of Simpson Creek <br> Quadrangle <br> $\qquad$

Do you anticipate using more than 5,000 bbl of water to complete the proposed well work? Yes $\square$ No $\qquad$ Will a pit be used?

Yes $\qquad$ No $\qquad$
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes $\qquad$ No $\square$ If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:
$\qquad$ Land Application Underground Injection ( UIC Permit Number $\qquad$ ) Reuse (at API Number $\qquad$ Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain

Will closed loop system be used? If so, describe: $\qquad$
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. $\qquad$
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Bentonite, Soap \& Polymer Sticks, Soda Ash, Sodium Bicarbonate, Defamer, Base Oil, Emulsifiers, Lime, \& Barite
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Advanced Disposal Services \& Chestnut Valley Landfill
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature


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

Subscribed and sworn before me this
 day of May , 2017


## Arsenal Resources

Proposed Revegetation Treatment: Acres Disturbed 25.1
Operator's Well No. Theme 205
$\qquad$
Lime 4 Tons/acre or to correct to pH 6.0-7.5

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Fertilizer type 10-20-20
Fertilizer amount 500 lbs/acre
Mulch
2
Tons/acre

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## Seed Mixtures

|  | Temporary |  |  | Permanent |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Seed Type | lbs/acre |  |  |  |  |
| Annual Rye | 40 |  |  | Seed Type |  |
| Field Bromegrass | 40 |  |  |  |  |
| Winter Rye | 168 |  |  |  |  |
| Winter Wheat | 180 |  |  |  |  |

Attach:
$\operatorname{Maps}(s)$ 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 ( $L \times W \times D$ ) of the pit, and dimensions ( $L \times W$ ), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.
Plan Approved by: Domed 2 a hoyolos
Comments:
Pre-seed / mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade E\&S where needed per WV DEP E\&S manual, if necessary. Date: $\quad 5-16-17$

Field Reviewed? $(\checkmark)$ Yes $\qquad$ No


## SITE SAFETY PLAN



Sheme 205 WELL PAD

## 911 Address:

760 Nuzum Road
Grafton, WV 26354


DRILL $\quad \mathrm{X}$ CONVERT __ DRILL DEEPER __ REDRILL __ FRACTURE OR STIMULATE _ X PLUG OFF OLD

FORMATION__ PERFORATE NEW FORMATION
$\qquad$ FRACTURE OR STIMULATE $\quad \mathrm{X}$
CLEAN OUT AND REPLUG $\qquad$ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION $\qquad$

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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WV Department of Environmental Protection

## 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.


Page 1 of 15


| 00004554 | Gerald Anthony Baughman, married, dealing in his sole and separate property | PDC Mountaineer, LLC | 0.14 | $\begin{aligned} & 59 / 573 \\ & 68 / 394 \end{aligned}$ | 198 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | PDC Mountaineer, LLC | River Ridge Energy, LLC |  |  |  |
| 00004555 | Dolores J. McDaniel, single | PDC Mountaineer, LLC | 0.14 | $\begin{aligned} & 60 / 164 \\ & 67 / 648 \\ & \hline \end{aligned}$ | 198 |
|  | PDC Mountaineer, LLC | River Ridge Energy, LLC |  |  |  |
| 00003835 | Jack B. Marsh and Beatrice L. Marsh, his wife | Petroleum Development Corporation | 0.125 | $\begin{aligned} & \hline 44 / 647 \\ & 61 / 49 \end{aligned}$ | 273 |
|  | Petroleum Development Corporation | PDC Mountaineer, LLC |  | 30/698 |  |
|  | PDC Mountaineer, LIC | River Ridge Energy, LLC |  |  |  |
| 00003583 | Avanelle M. Young, widow | Consolidated Gas Supply Corporation | 0.125 | 74/516 | 256 |
|  | Consolidated Gas Supply Corporation | Consolidated Gas Transmission Corporation |  | 99/481 |  |
|  | Consolidated Gas Transmission Corporation | CNG Development Company |  | 103/71 |  |
|  | CNG Development Company | CNG Producing |  |  |  |
|  | CNG Producing | Dominion Exploration and Production, Inc. |  |  |  |
|  | Dominion Exploration and Production, Inc. | Consol Gas Company |  | $\begin{array}{r} 16 / 567 \\ 447 / 571 \\ \hline \end{array}$ |  |
|  | Consol Gas Company | CNX Gas Company LLC |  | 447/571 |  |
|  | CNX Gas Company LLC | Noble Energy, Inc. |  |  |  |
|  | CNX Gas Company LLC and Noble Energy, Inc. | PDC Mountaineer, LLC |  | 168/538 |  |
|  | PDC Mountaineer, LLC | River Ridge Energy, LLC |  |  |  |

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| 00004268 | E. L. Young and Daisy Young, his wife, U. G. Young and Lillie P. Young, his wife; Harriet A. Hall, widow | Hope Natural Gas Company | 0.125 | $\begin{aligned} & 5 / 429 \\ & 6 / 509 \end{aligned}$ | 200 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hope Natural Gas Company | Consolidated Gas Supply Corporation |  | 53/261 |  |
|  | Consolldated Gas Supply Corporation | Consolldated Gas Transmission Corporation |  | 99/481 |  |
|  | Consolidated Gas Transmission Corporation | CNG Transmission Corporation |  | 17/198 |  |
|  | CNG Transmission Corporation | Dominion Transmission, Inc. |  |  |  |
|  | Dominion Transmission, Inc. | Consol Energy Holdings LCC XVI |  | 151/423 |  |
|  | Consol Energy Holdings LLC XVI | Consol Gas Company |  | $\begin{gathered} \hline 16 / 577 \\ 447 / 571 \\ \hline \end{gathered}$ |  |
|  | Consol Gas Company | CNX Gas Company LLC |  | 447/571 |  |
|  | CNXX Gas Company LIC and Noble | Noble Energy, Inc. |  | 155/406 |  |
|  | CNX Gas Company LLC and Noble Energy, Inc. | PDC Mountaineer, LLC |  | 168/538 |  |
|  | PDC Mountaineer, LLC | River Ridge Energy, LLC |  |  |  |

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WV Department of Environmental Protection

## West Virginia Secretary of State - Online Data Services

## Business and Licensing

Online Data Services Help

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047-091-01337
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## Business Organization Detail

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

CONSOL GAS COMPANY

| Organization Information |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Org Type | Effective Date | Established Date | $\begin{aligned} & \text { Filing } \\ & \text { Date } \end{aligned}$ | 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 <br> Purpose | 2111 - Mining, Quarrying, Oil \& Gas <br> Extraction - Oil and Gas Extraction <br> -Crude Oil and Natural Gas <br> Extraction | Capital <br> Stock | 0.0000 |
| Charter <br> County | DE | Control <br> Number | 0 |
| Charter <br> State | Excess <br> Acres | 0 |  |
| At Will Term | Member <br> Managed |  |  |
| At Will Term <br> Years | Par Value | 0.000000 |  |
| Authorized | 0 |  |  |
| Shares |  |  |  |
|  |  |  |  |


| Addresses |  |  |
| :--- | :--- | :--- |
| Type | Address |  |
| Local Office Address | ONE DOMINION DRIVE <br> JANE LEW, WV, 26378 | RECEIVED |
| Mailing Address | 1000 CONSOL ENERGY DR. <br> CANONSBURG, PA, 15317 <br> USA | Offiee of itand Gas |


| 5/22/2017 | WV SOS - Business and Licensing - Corporations - Online Data Services | 047-091-01 |
| :---: | :---: | :---: |
| 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. |
|  | $5 / 10 / 2000$ |
| Date | CNG PRODUCING COMPANY |


| Mergers |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Merger Date | Merged | Merged State | Survived | Survived State |
| $7 / 7 / 2010$ | CONSOL GAS RESERVES <br> INC. | VA | CONSOL GAS COMPANY | DE |
| $7 / 7 / 2010$ | CONSOL GAS COALBED <br> METHANE, INC. | DE | CONSOL GAS COMPANY | DE |
| $11 / 19 / 2010$ | CONSOL ENERGY <br> 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 | $\begin{array}{r} R \text { R } \\ \text { Office } \end{array}$ |
|  | CONSOLIDATED NATURAL GAS COMPANY 625 LIBERTY AVE. <br> PITTSBURGH, PA, 15222 USA | MAY <br> WV D |
|  | DOMINION COALBED METHANE, INC ONE DOMINION DR <br> JANE LEW, WV, 26378 <br> USA | Environm |


| 5/222017 <br> Name |  | WV SOS - Business and Licensing-Corporations - Orline Data Services $\quad 047-001$ |
| :---: | :---: | :---: |
|  |  | 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 NONQUALIFIED 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 |
| $777 / 2010$ |  | 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 | $\begin{gathered} \text { RECEIVED } \\ \text { Office:مfiland_Gas } \end{gathered}$ |
| 5/2/2005 |  |
| 3/22/2004 | MAY 262017 |
| 5/21/2003 | W Department of |
| 12/19/2001 | Environmental Protection |
| 4/26/2001 |  |
|  |  |
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|  |  |
| Date filed |  |

## 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 Information |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Org Type | Effective Date | Established Date | $\begin{aligned} & \text { Filing } \\ & \text { Date } \end{aligned}$ | Charter | Class | Sec Type | Termination Date | Termination Reason |
| C \| Corporation | 1/17/1984 |  | 1/17/1984 | Foreign | Profit |  |  |  |


| Organization Information |  |  |  |
| :--- | :--- | :--- | :--- |
| Business <br> Purpose | 4862-Transportation and <br> Warehousing - Pipeline <br> Transportation - Pipeline <br> Transportation of Natural Gas | Capital <br> Stock | 0.0000 |
| Charter <br> County | Control <br> Number | 0 |  |
| Charter <br> State DE | Excess <br> Acres | 0 |  |
| At Will Term | Member <br> Managed |  |  |
| At Will Term <br> Years | Par Value | 0.000000 |  |
| Authorized <br> Shares | 0 |  |  |
|  |  |  |  |


| Addresses |  |  |
| :---: | :---: | :---: |
| Type | Address | $\begin{gathered} \text { RECEIV } \\ \text { Office of Oil } \\ \hline \end{gathered}$ |
| Local Office Address | 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313 | MAY 26 |
| Mailing Address | 445 WEST MAIN STREET CLARKSBURG, WV, 26301 USA | WV Depart Environmenta |
| 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 |  |


| 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. <br> 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 |
|  | $5 / 10 / 2000$ |
| Date | CNG TRANSMISSION CORPORATION |


| Mergers |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Merger Date | Merged | Merged State | Survived | Survived State |
| $1 / 16 / 2002$ | CNG POWER COMPANY | DE | DOMINION <br> 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 | MAY 262017 |
| :--- | :---: |
| Date filed | WV Department of |
| Intp://apps.sos.wv.gov/business/corporations/rganization.aspx 7 Porg $=6578$ | Environmental Protection |


| 52220017 | WV SOS-Business and Licersing - Corporations - Ortine Data Services | 047-091-01337 |
| :---: | :---: | :---: |
| 5/26/2016 |  |  |
| 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
© 2017 State of West Virginia

## 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:

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. Anthorization 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 simultaneonsly 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.

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

## MOUNTAINEER KEYSTONE LLC



PIDC MOUNTAINEER, LLC


## PDC MOUNTAINEER HOLDINGS, LLC

By:


RECEIVED

## 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.

MAY 262017
WV Department of Environmental Protection

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


RIVER RIDGE ENERGY, LLC


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

## RIVER RIDGE HOLDINGS, LLC



May 18, 2017

Mr. James Martin, Chief of Oil and Gas
West Virginia Department of Environmental Protection
$60157^{\text {th }}$ Street, SE
Charleston, WV 25304

RE: Ownership of Roadways; Sheme South Pad - 205HM

Mr. Martin:

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

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

Sincerely,


Coly Brandon
Senior Title Attorney

# MAY 262017 

[^1][^2]
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION 

Date of Notice Certification: 05/24/2017
API No. 47- 091 -
Operator's Well No. Sheme 205
Well Pad Name: Sheme

## 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: | West Virginia |
| :--- | :--- |
| County: | Taylor |
| District: | Courthouse |
| Quadrangle: | Grafton |
| Watershed: | Long Run \& Right Fork of Simpson Creek |


| UTM NAD 83 | Easting: | 580,279.1 |
| :---: | :---: | :---: |
|  | Northing: | 4,347,246.0 |
| Public Road A | ess: | US 119/250, CR 119/27, \& CR 13/6 |
| Generally used | rm name: | Burton |

Pursuant to West Virginia Code $\S 22-6 A-7(b)$, 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

## $\square$ 1. NOTICE OF SEISMIC ACTIVITY or <br> $\square$ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED

2. NOTICE OF ENTRY FOR PLAT SURVEY or $\square$ NO PLAT SURVEY WAS CONDUCTED

回 3. NOTICE OF INTENT TO DRILL or $\square$ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or
$\square$ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
4. NOTICE OF PLANNED OPERATION

RECEIVED<br>Office of Oil and Gas

5. PUBLIC NOTICE

MAY 262017
回 6. NOTICE OF APPLICATION

OOG OFFICE USE
ONLY
RECEIVED/
NOT REQUIRED
RECEIVED
RECEIVED/
NOT REQUIRED
$\square$ RECEIVED
RECEIVED
RECEIVED

## Required Attachments:

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

## Certification of Notice is hereby given:

THEREFORE, I William Veigel , have read and understand the notice requirements within West Virginia Code § 226A. I certify that as required under West Virginia Code § $22-6 \mathrm{~A}$, 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.



## 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.

> Office ived
> Off of ail and Gas

> MAY 262017
> WV Department of Environmental Protection

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 0 05/24/2017 Date Permit Application Filed: $\underline{05 / 24 / 2017}$
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 $\square$ REGISTERED $\square$ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the 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.
$\square$ Application Notice $\square$ WSSP Notice $\square E \& S$ Plan Notice $\square$ Well Plat Notice is hereby provided to:
$\square$ SURFACE OWNER(s)
Name: David \& Luella Burton
Address: 2657 Simpson Road
Flemington, WV 26347
Name:
Address:
$\square$ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Anthony J. Veltri
Address: RR 2 Box 416
Grafton, WV 26354
Name: Thomas R. Sheme, Jr.
Address: 722 Nuzum Road
Grafton, WV 26354
$\square$ SURFACE OWNER(s) (Impoundments or Pits)
Name:
Address:

| COAL OWNER OR LESSEE |
| :--- |
| Name: David \& Luella Burton |
| Address: 2657 Simpson Road |
| Flemington, w 26347 |
| COAL OPERATOR |
| Name: |
| Address: |
| SURFACE OWNER OF WATER WELL |
| AND/OR WATER PURVEYOR(s) |
| Name: See Attached |
| Address: |
| OOPERATOR OF ANY NATURAL GAS STORAGE FIELD |
| Name: |
| Address: _ |
| *Please attach additional forms if necessary |

WW-6A
(8-13)
MAY 262017
API NO. 47-091
OPERATOR WELL NO. Sheme 205
Well Pad Name: Sheme
WV Department of Environmental Protection

## Notice is hereby given:

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

## This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at $60157^{\text {th }}$ 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

API NO. 47-091 -
OPERATOR WELL NO. Sheme 205
Well Pad Name: Sheme
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

RECEEVED
Office of Oil and Gas
Department of Environmental Protection
$60157^{\text {th }}$ St. SE
Charleston, WV 25304
(304) 926-0450

## MAY 262017


Such persons may request, at the time of submitting written comments, notice of the permit decision and ariist 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 $\S 22-6 A-11(c)(2)$, 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.

Notice is hereby given by: Well Operator:Arsenal Resources Telephone:


Email: ecarder@arsenalresources.com

Address: 6031 Wallace Road Extension, Suite 300
Wexford, PA 15090
Facsimile: 304-848-9134

## Oil and Gas Privacy Notice:

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


Possible Water Purveyors within 1,500 feet of Sheme Pad

| DISTRICT | MAP | PARCEL | OWNER | ADDRESS |
| :---: | :---: | :---: | :---: | :---: |
| COURTHOUSE | 12 | 44 | GARDNER SHELLY S | 280 AMBERWOOD LN, WINCHESTER , VA 22602 |
| COURTHOUSE | 12 | 45 | SHEME THOMAS R JR \& JAYPRADHA WHITE | 195 BOYLEN AVE , GRAFTON , WV 26354 |
| COURTHOUSE | 12 | 46 | SHEME THOMAS R JR \& JAYPRADHA WHITE | 722 NUZUM RD, GRAFTON , WV 26354 |
| COURTHOUSE | 15 | 27.2 | HAYS DALE E \& MELISSA M \& SURV | 473 LOW LEVEL BRIDGE RD, GRAFTON, WV 26354 |
| COURTHOUSE | 15 | 28 | SHEME THOMAS R JR \& JAYPRADHA WHITE | 195 BOYLEN AVE, GRAFTON , WV 26354 |
| COURTHOUSE | 15 | 29 | BURTON DAVID \& LUELLA \& SURV | 2657 SIMPSON RD , FLEMINGTON , WV 26347 |
| COURTHOUSE | 15 | 30 | SHEME THOMAS R JR JAYPRADHA WHITE | 722 NUZUM RD, GRAFTON , WV 26354 |
| COURTHOUSE | 15 | 43 | LAMBERT WILLIAM \& STANA \& SURV | 686 POST HILL RD , FLEMINGTON , WV 26347 |

## MAY 262017

WV Department of Environmental Protection

# 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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 05/24/2017 Date Permit Application Filed: 05/24/2017

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

$\square$ HAND
DELIVERY

回 CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code §22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: David \& Luella Burton
Address: 2657 Simpson Road
Flemington, WV 26347

Name:
Address:
$\qquad$

## Notice is hereby given:

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

| State: | West Virginia |
| :--- | :--- |
| County: | Taylor |
| District: | Courthouse |
| Quadrangle: | Grafton |
| Watershed: | Long Run \& Right Fork of Simpson Creek |


| UTM NAD 83 | Easting: | 580,279.1 |
| :---: | :---: | :---: |
|  | Northing: | 4,347,246.0 |
| Public Road Ac | ess: | US 119/250, CR 119/27, \& CR 13/6 |
| Generally used | arm name: | Burton |

## This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at $60157^{\text {th }}$ Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

| Well Operator: | Aresenal Resources |
| :--- | :--- |
| Address: | 6031 Wallace Road Extension, Suite 300 |
| Wexford, PA 15090 |  |
| Telephone: |  |
| Email: | 724-940-1204 |
| Facsimile: | ecarder@arsenalresources.com |
|  |  |


| Authorized Representative: | William Veigel |
| :--- | :--- |
| Address: | 65 Professional Place, Suite 200 |
| Bridgeport, WV 26330 |  |
| Telephone: | 724-940-1117 |
| Email: | $\underline{\text { wveigel@arsenalresources.com }}$ |
| Facsimile: |  |

## 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.

# 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: $\qquad$ Date Permit Application Filed:
05/24/2017
Delivery method pursuant to West Virginia Code § 22-6A-16(c)

| CERTIFIED MAIL | $\square$ | 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: Luella \& David Burton
Address: 2657 Simpson Rd.
Flemington, WV 26347

## Name:

Address: $\qquad$

## 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: | West Virginia |
| :--- | :--- |
| County: | Taylor |
| District: | Courthouse |
| Quadrangle: | Grafton |
| Watershed: | Long Run \& Right Fork of Simpson Creek |

$\begin{array}{ll}\text { Easting: } & \frac{580,279.1}{\text { Northing: }} \quad \underline{4,347,246.0}\end{array}$
Public Road Access: US 119/250, CR 119/27, \& CR 13/6
Generally used farm name: Burton

## 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 § $22-6 \mathrm{~A}-10(\mathrm{~b})$ 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 $60157^{\text {th }}$ Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx.

| Well Operator: | Aresenal Resources |
| :--- | :--- |
|  | 724-940-1204 |
| Telephail: | ecarder@arsenalresources.com |
|  |  |


| Address: | 6031 Wallace Road Extension, Suite 300 |
| :--- | :--- |
|  | Wexford, PA 15090 |
| Facsimile: | $304-848-9134$ |

## Oil and Gas Privacy Notice:

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

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

## Instructions to Persons Named on Page WW-6A

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

## Comment and Waiver Provisions

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

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

## VOLUNTARY STATEMENT OF NO OBJECTION

I, Thomas R. Sheme, Jr. , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through $\qquad$ , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

| State: | West Virginia |
| :--- | :--- |
| County: | Taylor |
| District: Courthouse <br> Quadrangle: Grafton <br> Watershed: Long Run \& Right Fork of Simpson Creek |  |


| UTM NAD 83 | Easting: | 580,279.1 |
| :---: | :---: | :---: |
|  | Northing: | 4,347,246.0 |
| Public Road Access: |  | US 119/250, CR 119/27, \& CR 13/6 |
| Generally used | arm name: | Burton |

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.
*Please check the box that applies
SURFACE OWNER

- SURFACE OWNER (Road and/or Other Disturbarcee) $\square$ SURFACE OWNER (Impoundments/Pits)
$\square$ COAL OWNER OR LESSEE
$\square$ COAL OPERATORWATER PURVEYOROPERATOR OF ANY NATURAL GAS STORAGE FIELD


GOR EXECUTION BY A CORPORATION, ETC. Company:
By:
Its:
Signature:
Date:

## Oil and Gas Privacy Notice:

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

# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways <br> 1800 Kanawha Boulevard East - Building Five - Room 110 Charleston, Wot Virglnta 26305-0430 - (304) 868-3605 <br> Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways 

October 3, 2017
James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
$60157^{\text {th }}$ Street, SE
Charleston, WV 25304
Subject: DOH Permit for the Sheme Pad, Taylor County
Shame 205 Well Site

Dear Mr. Martin,
The West Virginia Division of Highways has issued Permit \#07-2017-0194 to Arsenal Resources for access to the well site located off of Barbour County route 10 SLS.

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

Very Truly Yours,


Gary K. Clayton Regional Maintenance Engineer Central Office O\&G Coordinator

Cc: Kelly Davis
Arsenal Resources
CH, OM, D-4

| Well Name \# Sheme 205 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 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\% | $7647-01-0$ |  |

RECEIVED
Office of Oil and Gas
MAY 262017
WV Department of Environmental Protection



[^0]:    *Note: Attach additional sheets as needed.

[^1]:    WV Department of
    Environmental Protection

[^2]:    6031 Wallace Road Ext, Suite 300

