September 17, 2013

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-1706322, issued to ANTERO RESOURCES CORPORATION, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: SIBLEY UNIT 2H
Farm Name: PENNINGTON, BERNARD C., ET
API Well Number: 47-1706322
Permit Type: Horizontal 6A Well
Date Issued: 09/17/2013

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. 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 fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95% compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Antero Resources Corporation 494488557
   Operator ID
Doddridge 0-17 New Milton New Milton 7.5'
   County District Quadrangle

2) Operator's Well Number: Sibley Unit 2H
   Well Pad Name: Pennington North Pad

3) Elevation, current ground: 1292
   Elevation, proposed post-construction: 1275

4) Well Type: (a) Gas [ ] Oil [ ] Underground Storage [ ]
   Other [ ]
   (b) If Gas:
      Shallow [ ] Deep [ ]
      Horizontal [ ]

5) Existing Pad? Yes or No: No

6) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):
   Marcellus Shale: 7000' TVD, Anticipated Thickness: 60 Feet, Associated Pressure: 3250#/f

7) Proposed Total Vertical Depth: 7000' TVD

8) Formation at Total Vertical Depth: Marcellus Shale

9) Proposed Total Measured Depth: 13,660' MD

10) Approximate Fresh Water Strata Depths: 149', 237'

11) Method to Determine Fresh Water Depth:
    Offset well records. Depths have been adjusted according to surface elevations.

12) Approximate Saltwater Depths: 612', 1652', 1620'

13) Approximate Coal Seam Depths: 8', 70', 1490'

14) Approximate Depth to Possible Void (coal mine, karst, other):
    None anticipated

15) Does proposed well location contain coal seams directly overlying or adjacent to an active mine? If so, indicate name and depth of mine:
    No

16) Describe proposed well work:
    Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale

17) Describe fracturing/stimulating methods in detail:
    Antero plans to pump slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

18) Total area to be disturbed, including roads, stockpile area, pits, etc., (acres):
    8.65 acres

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

Page 1 of 3
### CASING AND TUBING PROGRAM

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<tr>
<th>TYPE</th>
<th>Size</th>
<th>New or Used</th>
<th>Grade</th>
<th>Weight per ft.</th>
<th>FOOTAGE: For Drilling</th>
<th>INTERVALS: Left in Well</th>
<th>CEMENT: Fill-up (Cu. Ft.)</th>
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<tr>
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<td>Depths Set:</td>
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**Received**

AUG 23 2013

09/20/2013
21) Describe centralizer placement for each casing string.  
Conductor: no centralizers  
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.  
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.  
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in Intermediate casing.  

22) Describe all cement additives associated with each cement type.  
Conductor: no additives, Class A cement.  
Surface: Class A cement with 2% calcium and 1/4 lb flake, 5 gallons of clay treat  
Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat  
Production: Loid cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51  
Production: Tall cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACG-47 + 0.05% ACSA-51 + 0.2% ACR-20  

23) Proposed borehole conditioning procedures.  
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.  
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.  
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.  
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barte pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.  

*Note: Attach additional sheets as needed.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: Antero Resources Corporation
OP Code: 494488567
Watershed (HUC 10): Tom's Fork
Quadrangle: New Milton 7.5
Elevation: 1275
County: Doddridge
District: New Milton

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes X No
Will a pit be used for drill cuttings? Yes X No (An associated frac pit will be used for flowback fluids)
Will a synthetic liner be used in the pit? Yes X No
If so, what ml? 80 ml
Proposed Disposal Method For Treated Pit Wastes:
- Land Application
- Underground Injection (UIC Permit Number)
- Reuse at API Number: Future permitted well locations when applicable. API# will be provided on Form WR-34
- Off Site Disposal (Meadowfill Landfill Permit #SWF-1032-98)
- Other (Explain)

Will closed loop system be used? Yes

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Surface - Air/Freshwater, Intermediate - Dusk/ EII Foam, Production - Water Based Mud

- If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? Please See Attachment

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Stored in tanks, removed offsite and taken to 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? Meadowfill Landfill (Permit #SWF-1032-98)

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): Cole Klistrom
Company Official Title: Environmental Specialist

Subscribed and sworn before me this 24 day of July 2013.


Lisa Bottinelli
Notary Public
Notary Public State of Colorado
Notary ID 20124072365
My Commission Expires Nov 9, 2016

09/20/2013
Form WW-9

Antero Resources Corporation

Operator's Well No. Sibley Unit 2H

Proposed Revegetation Treatment: Acres Disturbed 9.65
Prevegetation pH

Lime 2-4 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Hay or straw or Wood Fiber (will be used where needed)

Mulch 2-3 Tons/acre

Road A (41) + Access Road B (44)+ Drill Pad (3.5) + Associated Pit (2.85) + Associated Pit Pad (42) = 9.65 Acres

Seed Mixtures

Seed Type | Area I (Temporary) | Area II (Permanent) |
--- | --- | --- |
Tall Fescue | 45 | 45 |
Perennial Rye Grass | 20 | 20 |

*or type of grass seed requested by surface owner

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Pressed to Mulch install Eros to wo dep regulations

Title: [Signature] Date: 9-22-2013

Field Reviewed? ( ) Yes ( ) No
Form WW-9 Additives Attachment

SURFACE INTERVAL

1. Fresh Water
2. Soap – Foamer AC
3. Air

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
4) 1 ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
5) 12 ppb KCL / Potassium Chloride-inorganic Salt
6) Fresh Water 80 bbls
7) Air

PRODUCTION INTERVAL

1. Alpha 1655
   Salt Inhibitor
2. Mil-Carb
   Calcium Carbonate
3. Cottonseed Hulls
   Cellulose-Cottonseed Pellets – LCM
4. Mil-Seal
   Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM
5. Clay-Trol
   Amine Acid Complex - Shale Stabilizer
6. Xan-Plex
   Viscosifier For Water Based Muds
7. Mil-Pac (All Grades)
   Sodium Carboxymethylcellulose – Filtration Control Agent
8. New Drill
   Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer
9. Caustic Soda
   Sodium Hydroxide – Alkalinity Control
10. Mil-Lime
    Calcium Hydroxide – Lime
11. LD-9
    Polyether Polyol – Drilling Fluid Defoamer
12. Mil Mica
    Hydro-Biotite Mica – LCM
13. Escaid 110  
   Drilling Fluid Solvent – Aliphatic Hydrocarbon
14. Ligeo  
   Highly Oxidized Leonardite – Filtration Control Agent
15. Super Sweep  
   Polypropylene – Hole Cleaning Agent
16. Sulfatrol K  
   Drilling Fluid Additive – Sulfonated Asphalt Residuum
17. Sodium Chloride, Anhydrous  
   Inorganic Salt
18. D-D  
   Drilling Detergent – Surfactant
19. Terra-Rate  
   Organic Surfactant Blend
20. W.O. Defoam  
   Alcohol-Based Defoamer
21. Perma-Lose HT  
   Fluid Loss Reducer For Water-Based Muds
22. Xan-Plex D  
   Polysaccharide Polymer – Drilling Fluid Viscosifier
23. Walnut Shells  
   Ground Cellulosic Material – Ground Walnut Shells – LCM
24. Mil-Graphite  
   Natural Graphite – LCM
25. Mil Bar  
   Barite – Weighting Agent
26. X-Cide 102  
   Biocide
27. Soda Ash  
   Sodium Carbonate – Alkalinity Control Agent
28. Clay Trol  
   Amine Acid complex – Shale Stabilizer
29. Sulfatrol  
   Sulfonated Asphalt – Shale Control Additive
30. Xanvis  
   Viscosifier For Water-Based Muds
31. Milstarch  
   Starch – Fluid Loss Reducer For Water Based Muds
32. Mil-Lube  
   Drilling Fluid Lubricant
Important:
For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP’s assessment is based on the following considerations:

• Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
• Identification of sensitive aquatic life (endangered species, mussels, etc.);
• Quantification of known existing demands on the water supply (Large Quantity Users);
• Minimum flows required by the Army Corps of Engineers; and
• Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

DEP is aware that some intake points will be used for multiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interpreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator’s responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov.
### Stream/River

**Source:** Ohio River @ Ben’s Run Withdrawal Site  
**Owner:** Ben’s Run Land Company Limited Partnership  
**Tyler**

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<th>End Date</th>
<th>Total Volume (gal)</th>
<th>Max. daily purchase (gal)</th>
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- **Regulated Stream:** Yes  
- **Ohio River Min. Flow:** Ref. Gauge ID: 9999999  
- **Ohio River Station:** Willow Island Lock & Dam  
- **Max. Pump rate (gpm):** 3,360  
- **Min. Gauge Reading (cfs):** 6,468.00  
- **Min. Passby (cfs):**  

**DEP Comments:** Refer to the specified station on the National Weather Service's Ohio River forecast website: [http://www.erh.noaa.gov/ohrfc//flows.shtml](http://www.erh.noaa.gov/ohrfc//flows.shtml)

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**Source:** West Fork River @ JCP Withdrawal  
**Owner:** James & Brenda Raines  
**Harrison**

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<th>Start Date</th>
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- **Regulated Stream:** Yes  
- **Stonewall Jackson Dam:** Ref. Gauge ID: 3061000  
- **WEST FORK RIVER AT ENTERPRISE, WV**  
- **Max. Pump rate (gpm):** 2,000  
- **Min. Gauge Reading (cfs):** 175.00  
- **Min. Passby (cfs):** 146.25  

**DEP Comments:**

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**Source:** West Fork River @ McDonald Withdrawal  
**Owner:** David Shrievess  
**Harrison**

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- **Regulated Stream:** Yes  
- **Stonewall Jackson Dam:** Ref. Gauge ID: 3061000  
- **WEST FORK RIVER AT ENTERPRISE, WV**  
- **Max. Pump rate (gpm):** 3,000  
- **Min. Gauge Reading (cfs):** 175.00  
- **Min. Passby (cfs):** 106.30  

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<tr>
<td>□ Regulated Stream?</td>
<td></td>
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<tr>
<td>Max. Pump rate (gpm):</td>
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<tr>
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<th>Meathouse Fork @ Gagnon Withdrawal</th>
<th>Doddridge</th>
<th>Owner: George L. Gagnon and Susan C. Gagnon</th>
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<tbody>
<tr>
<td>Start Date</td>
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<td>End Date</td>
<td>7/12/2015</td>
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<td>Doddridge</td>
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<td>Min. Passby (cfs)</td>
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<th>Source</th>
<th>Arnold Creek @ Davis Withdrawal</th>
<th>Doddridge</th>
<th>Owner: Jonathon Davis</th>
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<tbody>
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**Source**  
**South Fork of Hughes River @ Knight Withdrawal**  
Ritchie  
Owner: Tracy C. Knight & Stephanie C. Knight

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<th>Max. daily purchase (gal)</th>
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<th>Intake Longitude</th>
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☐ Regulated Stream?  
Ref. Gauge ID: 3155220  
SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WY

Max. Pump rate (gpm): 3,000  
Min. Gauge Reading (cfs): 39.80  
Min. Passby (cfs): 1.95

DEP Comments:

---

**Source**  
**North Fork of Hughes River @ Davis Withdrawal**  
Ritchie  
Owner: Lewis P. Davis and Norma J. Davis

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<thead>
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<th>Start Date</th>
<th>End Date</th>
<th>Total Volume (gal)</th>
<th>Max. daily purchase (gal)</th>
<th>Intake Latitude</th>
<th>Intake Longitude</th>
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<tbody>
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☐ Regulated Stream?  
Ref. Gauge ID: 3155220  
SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WY

Max. Pump rate (gpm): 1,000  
Min. Gauge Reading (cfs): 35.23  
Min. Passby (cfs): 2.19

DEP Comments:
# Source Summary

**WMP-01417**

**API Number:** 047-017-06322  
**Operator:** Antero Resources  
**Sibley Unit 2H**

## Purchased Water

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<th>Source</th>
<th>Pleasants</th>
<th>Owner:</th>
<th>Select Energy</th>
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<tbody>
<tr>
<td>Ohio River @ Select Energy</td>
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<tr>
<td><strong>Start Date</strong></td>
<td><strong>End Date</strong></td>
<td><strong>Total Volume (gal)</strong></td>
<td><strong>Max. daily purchase (gal)</strong></td>
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<tr>
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<td>Ohio River Min. Flow</td>
<td>Ref. Gauge ID:</td>
<td>Ohio River Station: Racine Dam</td>
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<tr>
<td></td>
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<td><strong>Min. Gauge Reading (cfs):</strong></td>
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<td>1,680</td>
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<td>DEP Comments:</td>
<td>Refer to the specified station on the National Weather Service's Ohio River forecast website: <a href="http://www.erh.noaa.gov/ohrfc//flows.shtml">http://www.erh.noaa.gov/ohrfc//flows.shtml</a></td>
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<table>
<thead>
<tr>
<th>Source</th>
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<tbody>
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<td>Middle Island Creek @ Solo Construction</td>
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<td><strong>End Date</strong></td>
<td><strong>Total Volume (gal)</strong></td>
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<td>7/12/2015</td>
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<tr>
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<td>Ref. Gauge ID:</td>
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<td><strong>Min. Passby (cfs):</strong></td>
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<table>
<thead>
<tr>
<th>Source</th>
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<td><strong>Max. daily purchase (gal)</strong></td>
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<td>Yes</td>
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<td><strong>Min. Gauge Reading (cfs):</strong></td>
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<td></td>
<td>7,216.00</td>
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<tr>
<td>Source</td>
<td>Sun Valley Public Service District</td>
<td>Harrison</td>
<td>Owner:</td>
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<td>Start Date</td>
<td>7/12/2014</td>
<td>End Date</td>
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<td>Regulated Stream?</td>
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<td>Stonewall Jackson Dam</td>
<td>Ref. Gauge ID:</td>
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<td>WEST FORK RIVER AT ENTERPRISE, WV</td>
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west virginia department of environmental protection
Source Detail

Source ID: 23648  Source Name: Ohio River @ Select Energy

HUC-8 Code: 5030201  Drainage Area (sq. mi.): 25000  County: Pleasants

☐ Endangered Species?  ☑ Mussel Stream?
☑ Regulated Stream?  □ Tier 3?
☐ Proximate PSD?
☐ Gauged Stream?

Source Latitude: 39.346473  Source Longitude: -81.338727

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 1,680

Max. Simultaneous Trucks:
Max. Truck pump rate (gpm):

Reference Gaug 999998  Ohio River Station: Racine Dam
Drainage Area (sq. mi.) 25,000.00  Gauge Threshold (cfs): 7216

Water Availability Profile

Flow on this stream is regulated by the Army Corps of Engineers. Please adhere to the stated thresholds to maintain the minimum guaranteed flow requirements.

"Threshold", as depicted in the chart above, is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Water Availability Assessment of Location

Base Threshold (cfs): -
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (cfs): 3.74
Headwater Safety (cfs): 0.00
Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): -
Passby at Location (cfs): -
Source Detail

WMP: 01417   API/ID Number: 047-017-06322   Operator: Antero Resources

Source ID: 23649   Source Name: Middle Island Creek @ Solo Construction

Solo Construction, LLC

HUC-8 Code: 5030201

Drainage Area (sq. mi.): 25000   County: Pleasants

Endangered Species?  Mussel Stream?
Trout Stream?  Tier 3?
Regulated Stream?  Ohio River Min. Flow
Proximate PSD?  City of St. Marys
Gauged Stream?

Anticipated withdrawal start date: 7/12/2014
Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000

Max. Pump rate (gpm):

Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug  9999999   Ohio River Station: Willow Island Lock & Dam

Drainage Area (sq. mi.) 25,000.00

Gauge Threshold (cfs): 6468

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<tr>
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<td>49,200.00</td>
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<tr>
<td>3</td>
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<td>12</td>
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**Water Availability Profile**

Flow on this stream is regulated by the Army Corps of Engineers. Please adhere to the stated thresholds to maintain the minimum guaranteed flow requirements.

**Water Availability Assessment of Location**

Base Threshold (cfs): -
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (cfs): -
Headwater Safety (cfs): 0.00
Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): -
Passby at Location (cfs): -

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.
Source Detail

WMP: 01417  API/ID Number: 047-017-06322  Operator: Antero Resources
Sibley Unit 2H

Source ID: 23650  Source Name: Claywood Park PSD
HUC-8 Code: 5030203  Drainage Area (sq. mi.): 25000  County: Wood

Endangered Species?  Mussel Stream?  Trout Stream?  Tier 3?
Regulated Stream?  Proximate PSD?  Gauged Stream?

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 0
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug 9999998  Ohio River Station: Racine Dam
Drainage Area (sq. mi.) 25,000.00
Gauge Threshold (cfs): 7216

Month  Median monthly flow (cfs)  Threshold (+ pump)  Estimated Available water (cfs)
1  50,956.00  -  -
2  54,858.00  -  -
3  73,256.00  -  -
4  62,552.00  -  -
5  43,151.00  -  -
6  27,095.00  -  -
7  17,840.00  -  -
8  14,941.00  -  -
9  14,272.00  -  -
10  17,283.00  -  -
11  29,325.00  -  -
12  46,050.00  -  -

Water Availability Assessment of Location
Base Threshold (cfs): -
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (cfs): -
Headwater Safety (cfs): 0.00
Ungauged Stream Safety (cfs): 0.00
Min. Gauge Reading (cfs): -
Passby at Location (cfs): -

Water Availability Profile

"Threshold" as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Flow on this stream is regulated by the Army Corps of Engineers. Please adhere to the stated thresholds to maintain the minimum guaranteed flow requirements.

09/20/2013
west virginia department of environmental protection
9/16/2013 4:03:00 PM
Source Detail

Source ID: 23651  Source Name: Sun Valley Public Service District
Sun Valley PSD

HUC-8 Code: 5020002  Drainage Area (sq. mi.): 391.85  County: Harrison

Endangered Species? ☑  Mussel Stream?
Trout Stream?  ☐ Tier 3?
Regulated Stream?  ☑ Stonewall Jackson Dam
Proximate PSD?  ☐
Gauged Stream?  ☑

Source Latitude: -  Source Longitude: -

Anticipated withdrawal start date: 7/12/2014
Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm):
Max. Simultaneous Trucks:
Max. Truck pump rate (gpm):

Reference Gaug
Drainage Area (sq. mi.) 759.00  WEST FORK RIVER AT ENTERPRISE, WV
Gauge Threshold (cfs): 234

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<td>12</td>
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</table>

Water Availability Profile

Flow on this stream is regulated by the Army Corps of Engineers. Please adhere to the stated thresholds to maintain the minimum guaranteed flow requirements.

Water Availability Assessment of Location

Base Threshold (cfs): -
Upstream Demand (cfs):
Downstream Demand (cfs):
Pump rate (cfs):
Headwater Safety (cfs): 0.00
Ungauged Stream Safety (cfs): 0.00
Min. Gauge Reading (cfs): -
Passby at Location (cfs): -

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.
Source ID: 23634  Source Name: Ohio River @ Ben's Run Withdrawal Site
Ben's Run Land Company Limited Partnership

Source Latitude: 39.46593  Source Longitude: -81.110781

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 3,360
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug 9999999  Ohio River Station: Willow Island Lock & Dam
Drainage Area (sq. mi.) 25,000.00  Gauge Threshold (cfs): 6468

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<td>12</td>
<td>41,300.00</td>
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Flow on this stream is regulated by the Army Corps of Engineers. Please adhere to the stated thresholds to maintain the minimum guaranteed flow requirements.

Water Availability Assessment of Location
Base Threshold (cfs): -
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (cfs): 7.49
Headwater Safety (cfs): 0.00
Ungauged Stream Safety (cfs): 0.00
Min. Gauge Reading (cfs): -
Passby at Location (cfs): -

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.
Source ID: 23635  Source Name: West Fork River @ JCP Withdrawal James & Brenda Raines

HUC-8 Code: 5020002  Drainage Area (sq. mi.): 532.2  County: Harrison

- Endangered Species?
- Trout Stream?
- Regulated Stream?
- Proximate PSD?
- Gauged Stream?

Mussel Stream?
Tier 3?
Stonewall Jackson Dam

Source Latitude: 39.320913  Source Longitude: -80.337572

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 2,000
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug 3061000 WEST FORK RIVER AT ENTERPRISE, WV
Drainage Area (sq. mi.) 759.00  Gauge Threshold (cfs): 234

Month | Median monthly flow (cfs) | Threshold (+ pump) | Estimated Available water (cfs)
--- | --- | --- | ---
1 | 1,630.82 | - | -
2 | 1,836.14 | - | -
3 | 2,365.03 | - | -
4 | 1,352.59 | - | -
5 | 1,388.37 | - | -
6 | 695.67 | - | -
7 | 450.73 | - | -
8 | 430.37 | - | -
9 | 299.45 | - | -
10 | 293.59 | - | -
11 | 736.74 | - | -
12 | 1,257.84 | - | -

Water Availability Profile

Flow on this stream is regulated by the Army Corps of Engineers. Please adhere to the stated thresholds to maintain the minimum guaranteed flow requirements.

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Water Availability Assessment of Location

Base Threshold (cfs): -
Upstream Demand (cfs): 24.29
Downstream Demand (cfs): 0.00
Pump rate (cfs): 4.46
Headwater Safety (cfs): 0.00
Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): -
Passby at Location (cfs): -

09/20/2013
Source Detail

WMP: 01417  API/ID Number: 047-017-06322  Operator: Antero Resources

Sibley Unit ZH

Source ID: 23636  Source Name: West Fork River @ McDonald Withdrawal

David Shrievess

HUC-8 Code: 5020002  Drainage Area (sq. mi.): 314.91  County: Harrison

Endangered Species? ☐  Mussel Stream? ☑

Trout Stream? ☐  Tier 3? ☐

Regulated Stream? ☑  Stonewall Jackson Dam

Proximate PSD? ☐  Gauged Stream? ☑

Source Latitude: 39.16761  Source Longitude: -80.45069

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015

Total Volume from Source (gal): 6,690,000

Max. Pump rate (gpm): 3,000

Max. Simultaneous Trucks: 0  Max. Truck pump rate (gpm): 0

Reference Gaug 3061000  WEST FORK RIVER AT ENTERPRISE, WV

Drainage Area (sq. mi.) 759.00  Gauge Threshold (cfs): 234

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<td>744.28</td>
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Water Availability Profile

Flow on this stream is regulated by the Army Corps of Engineers. Please adhere to the stated thresholds to maintain the minimum guaranteed flow requirements.

Median Monthly Flow  Threshold

Water Availability Assessment of Location

Base Threshold (cfs): -
Upstream Demand (cfs): 24.29
Downstream Demand (cfs): 0.00
Pump rate (cfs): 6.68
Headwater Safety (cfs): 24.27
Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): -
Passby at Location (cfs): -

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

09/20/2013

west virginia department of environmental protection

9/16/2013 4:03:01 PM
Source ID: 23637  Source Name: West Fork River @ GAL Withdrawal  
Source Location: David Shrievs

HUC-8 Code: 5020002
Drainage Area (sq. mi.): 313.67  County: Harrison

☐ Endangered Species?  ☑ Mussel Stream?
☐ Trout Stream?  ☐ Tier 3?
☑ Regulated Stream?  Stonewall Jackson Dam
☐ Proximate PSD?
☑ Gauged Stream?

Source Latitude: 39.16422  Source Longitude: -80.45173
Anticipated withdrawal start date: 7/12/2014
Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 2,000
Max. Simultaneous Trucks: 0  Max. Truck pump rate (gpm): 0

Reference Gauge: 3061000  WEST FORK RIVER AT ENTERPRISE, WV
Drainage Area (sq. mi.): 759.00  Gauge Threshold (cfs): 234

<table>
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<tr>
<th>Month</th>
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<td>-</td>
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<td>12</td>
<td>741.35</td>
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Water Availability Profile

Flow on this stream is regulated by the Army Corps of Engineers. Please adhere to the stated thresholds to maintain the minimum guaranteed flow requirements.

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Water Availability Assessment of Location

Base Threshold (cfs): -
Upstream Demand (cfs): 24.29
Downstream Demand (cfs): 0.00
Pump rate (cfs): 4.46
Headwater Safety (cfs): 24.18
Ungauged Stream Safety (cfs): 0.00
Min. Gauge Reading (cfs): -
Passby at Location (cfs): -

west virginia department of environmental protection

09/20/2013
9/16/2013 4:03:01 PM
Source Detail

WMP: 01417
Operator: Antero Resources

Source ID: 23638 Source Name: Middle Island Creek @ Dawson Withdrawal
Gary D. and Rella A. Dawson

HUC-8 Code: S030201
Drainage Area (sq. mi.): 181.34 County: Tyler

Endangered Species? ☑ Mussel Stream?
Trout Stream? ☐ Tier 3?
Regulated Stream? ☐ Proximate PSD?
☑ Gauged Stream?

Source Latitude: 39.379292
Source Longitude: -80.867803

Anticipated withdrawal start date: 7/12/2014
Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000

Max. Pump rate (gpm): 3,000
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV
Drainage Area (sq. mi.) 458.00
Gauge Threshold (cfs): 45

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<tr>
<th>Month</th>
<th>Median monthly flow (+ pump)</th>
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Water Availability Profile

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Water Availability Assessment of Location

Base Threshold (cfs): 17.82
Upstream Demand (cfs): 13.10
Downstream Demand (cfs): 6.55
Pump rate (cfs): 6.68
Headwater Safety (cfs): 4.45
Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): 76.03
Passby at Location (cfs): 28.82

west virginia department of environmental protection

09/20/2013
9/16/2013 4:03:01 PM
Source Detail

WMP: 01417  API/ID Number: 047-017-06322  Operator: Antero Resources

Sibley Unit 2H

Source ID: 23639  Source Name: McElroy Creek @ Forest Withdrawal Forest C. & Brenda L. Moore

HUC-8 Code: 5030201  Drainage Area (sq. mi.): 88.85  County: Tyler

Endangered Species?  Mussel Stream?
Trout Stream?  Tier 3?
Regulated Stream?  Proximate PSD?
Gauged Stream?

Source Latitude: 39.39675  Source Longitude: -80.738197

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000

Max. Pump rate (gpm): 1,000
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.) 458.00  Gauge Threshold (cfs): 45

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<td>12</td>
<td>65.63 19.78</td>
<td>46.03</td>
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Water Availability Profile

Water Availability Assessment of Location

Base Threshold (cfs): 8.73
Upstream Demand (cfs): 4.46
Downstream Demand (cfs): 0.00
Pump rate (cfs): 2.23
Headwater Safety (cfs): 2.18
Ungauged Stream Safety (cfs): 2.18

Min. Gauge Reading (cfs): 74.19
Passby at Location (cfs): 13.09

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

09/20/2013

west virginia department of environmental protection

9/16/2013 4:03:01 PM
Source ID: 23640  Source Name: McElroy Creek @ Sweeney Withdrawal
Bill Sweeney

HUC-8 Code: 5030201  County: Dodridge

Endangered Species?  Mussel Stream?
Trout Stream?  Tier 3?
Regulated Stream?
Proximate PSD?
Gauged Stream?

Source Latitude: 39.398123  Source Longitude: -80.656808

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 1,000
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug
3114500  MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.) 458.00  Gauge Threshold (cfs): 45

<table>
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<th>Month</th>
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<th>Threshold (+ pump)</th>
<th>Estimated Available water (+ pump)</th>
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Water Availability Profile

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

West Virginia Department of Environmental Protection

09/20/2013
**Source Detail**

WMP: 01417  
API/ID Number: 047-017-06322  
Operator: Antero Resources

**Sibley Unit 2H**

**Source ID:** 23641  
**Source Name:** Meathouse Fork @ Gagnon Withdrawal  
George L. Gagnon and Susan C. Gagnon

- **HUC-8 Code:** 5030201
- **Drainage Area (sq. mi.):** 60.6
- **County:** Dodridge
- **Endangered Species?** ✓
- **Mussel Stream?** ✓
- **Trout Stream?**
- **Regulated Stream?**
- **Proximate PSD?**
- **Gauged Stream?**

**Source Latitude:** 39.26054  
**Source Longitude:** -80.720998

- **Anticipated withdrawal start date:** 7/12/2014
- **Anticipated withdrawal end date:** 7/12/2015
- **Total Volume from Source (gal):** 6,690,000
- **Max. Pump rate (gpm):** 1,000
  - **Max. Simultaneous Trucks:** 0
  - **Max. Truck pump rate (gpm):** 0

**Reference Gaug:** 3114500  
**MIDDLE ISLAND CREEK AT LITTLE, WV**  
**Drainage Area (sq. mi.):** 458.00  
**Gauge Threshold (cfs):** 45

<table>
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**Water Availability Profile**

![Graph showing water availability profile]

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

**Water Availability Assessment of Location**

- **Base Threshold (cfs):** 5.95
- **Upstream Demand (cfs):** 2.23
- **Downstream Demand (cfs):** 2.81
- **Pump rate (cfs):** 2.23
- **Headwater Safety (cfs):** 1.49
- **Ungauged Stream Safety (cfs):** 1.49

- **Min. Gauge Reading (cfs):** 71.96
- **Passby at Location (cfs):** 11.74

09/20/2013

*west virginia department of environmental protection*
Source Detail

WMP: 01417  API/ID Number: 047-017-06322  Operator: Antero Resources

Sibley Unit 2H

Source ID: 23642  Source Name: Meathouse Fork @ Whitehair Withdrawal
Elton Whitehair

HUC-8 Code: 5030201  Drainage Area (sq. mi.): 30.37  County: Doddridge

Endangered Species?  Mussel Stream?  Trout Stream?  Tier 3?
Regulated Stream?  Proximate PSD?  Gauged Stream?

Source Latitude: 39.211317  Source Longitude: -80.679592

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 1,000
Max. Simultaneous Trucks: 0  Max. Truck pump rate (gpm): 0

Reference Gaug 3114500  MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.) 458.00  Gauge Threshold (cfs): 45

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Water Availability Assessment of Location

Base Threshold (cfs): 2.98
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 2.81
Pump rate (cfs): 2.23
Headwater Safety (cfs): 0.75
Ungauged Stream Safety (cfs): 0.75

Min. Gauge Reading (cfs): 69.73
Passby at Location (cfs): 7.29

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.
Source Detail

WMP: 01417  API/ID Number: 047-017-06322  Operator: Antero Resources
Sibley Unit 2H

Source ID: 23643  Source Name: Tom’s Fork @ Erwin Withdrawal
John F. Erwin and Sandra E. Erwin

HUC-8 Code: 5030201  County: Doddridge

Anticipated withdrawal start date: 7/12/2014
Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 1,000
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Endangered Species? ☑  Mussel Stream?
Trout Stream?  Tier 3?
Regulated Stream?  Proximate PSD?
Gauged Stream?  0

Reference Gaug 3114500  MIDDLE ISLAND CREEK AT LITTLE, WV
Drainage Area (sq. mi.) 458.00
Gauge Threshold (cfs): 45

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Water Availability Profile

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Water Availability Assessment of Location

Base Threshold (cfs): 0.39
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (cfs): 2.23
Headwater Safety (cfs): 0.10
Ungauged Stream Safety (cfs): 0.10
Min. Gauge Reading (cfs): 69.73
Passby at Location (cfs): 0.59

west virginia department of environmental protection
09/20/2013
9/16/2013 4:03:02 PM
Source Detail

WMP-01417  API/ID Number: 047-017-06322  Operator: Antero Resources
Sibley Unit 2H

Source ID: 23644  Source Name: Arnold Creek @ Davis Withdrawal
Jonathon Davis

HUC-8 Code: 5030201  Drainage Area (sq. mi.): 20.83  County: Dodridge
Anticipated withdrawal start date: 7/12/2014
Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 1,000
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug 3114500  MIDDLE ISLAND CREEK AT LITTLE, WV
Gauge Threshold (cfs): 45
Drainage Area (sq. mi.) 458.00

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Water Availability Profile

"Threshold", as depicted in the chart above, is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Water Availability Assessment of Location

Base Threshold (cfs): 2.05
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (cfs): 2.23
Headwater Safety (cfs): 0.51
Ungauged Stream Safety (cfs): 0.51
Min. Gauge Reading (cfs): 69.73
Passby at Location (cfs): 3.07

09/20/2013
Source Detail

WMP: 01417  API/ID Number: 047-017-06322  Operator: Antero Resources

Sibley Unit 2H

Source ID: 23645  Source Name: Buckeye Creek @ Powell Withdrawal
Dennis Powell

HUC-8 Code: 5030201  Drainage Area (sq. mi.): 31.15  County: Doddridge

☑ Endangered Species?  Mussel Stream?  □ Trout Stream?
□ Regulated Stream?  □ Tier 3?
□ Proximate PSD?
□ Gauged Stream?

Source Latitude: 39.277142  Source Longitude: -80.690386

Anticipated withdrawal start date: 7/12/2014  Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000

Max. Pump rate (gpm): 1,000
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug
3114500  MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.): 458.00  Gauge Threshold (cfs): 45

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Water Availability Profile

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Water Availability Assessment of Location

Base Threshold (cfs): 3.06
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (gfs): 2.23
Headwater Safety (cfs): 0.77
Ungauged Stream Safety (cfs): 0.77

Min. Gauge Reading (cfs): 69.73
Passby at Location (cfs): 4.59

west virginia department of environmental protection
9/16/2013 4:03:02 PM
Source ID: 23646   Source Name: South Fork of Hughes River @ Knight Withdrawal
   Tracy C. Knight & Stephanie C. Knight

HUC-8 Code: 5030203   Drainage Area (sq. mi.): 16.26   County: Ritchie

☑ Endangered Species?   ☑ Mussel Stream?
☐ Trout Stream?   ☐ Tier 3?
☐ Regulated Stream?
☐ Proximate PSD?
☑ Gauged Stream?

Source Latitude: 39.198369   Source Longitude: -80.870969

Anticipated withdrawal start date: 7/12/2014
Anticipated withdrawal end date: 7/12/2015
Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 3,000
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug   3155220   SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WV
Drainage Area (sq. mi.) 229.00   Gauge Threshold (cfs): 22

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Water Availability Profile

09/20/2013

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.
Source Detail

WMP: 01417  API/ID Number: 047-017-06322  Operator: Antero Resources
Sibley Unit 2H

Source ID: 23647  Source Name: North Fork of Hughes River @ Davis Withdrawal
Lewis P. Davis and Norma J. Davis

HUC-8 Code: 5030203  Drainage Area (sq. mi.): 15.18  County: Ritchie
Anticipated withdrawal start date: 7/12/2014
Anticipated withdrawal end date: 7/12/2015

☑ Endangered Species?  ☑ Mussel Stream?
☐ Trout Stream?  ☐ Tier 3?
☐ Regulated Stream?  ☐ Proximate PSD?
☐ Gauged Stream?

Total Volume from Source (gal): 6,690,000
Max. Pump rate (gpm): 1,000

Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm): 0

Reference Gaug
3155220  SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WV
Drainage Area (sq. mi.) 229.00  Gauge Threshold (cfs): 22

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Water Availability Profile

Base Threshold (cfs): 1.46
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (cfs): 2.23
Headwater Safety (cfs): 0.36
Ungauged Stream Safety (cfs): 0.36
Min. Gauge Reading (cfs): 35.23
Passby at Location (cfs): 2.19

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

09/20/2013
Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

• For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.

• For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Lake/Reservoir

<table>
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<tbody>
<tr>
<td>Source Lat: 39.28834</td>
<td>Source Long: -80.54966</td>
<td>County: Harrison</td>
</tr>
<tr>
<td>Max. Daily Purchase (gal): 1,000,000</td>
<td>Total Volume from Source (gal): 6,690,000</td>
<td></td>
</tr>
</tbody>
</table>

DEP Comments:
Important:
For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

* For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.

* For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Source ID: 23653  Source Name: Pennsboro Lake  Source start date: 7/12/2014  Source end date: 7/12/2015
Source Lat: 39.281689  Source Long: -80.925526  County: Ritchie
Max. Daily Purchase (gal):  Total Volume from Source (gal): 6,690,000

DEP Comments:

Source ID: 23654  Source Name: Powers Lake (Wilderness Water Park Dam)  Private Owner  Source start date: 7/12/2014  Source end date: 7/12/2015
Source Lat: 39.255752  Source Long: -80.463262  County: Harrison
Max. Daily Purchase (gal):  Total Volume from Source (gal): 6,690,000

DEP Comments:
Important:
For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

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Source ID: 23655  Source Name: Powers Lake Two  Source start date: 7/12/2014  Source end date: 7/12/2015
Source Lat: 39.247604  Source Long: -80.466642  County: Harrison  Total Volume from Source (gal): 6,690,000
Max. Daily Purchase (gal)
Important:

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### Other

<table>
<thead>
<tr>
<th>Source ID</th>
<th>Source Name</th>
<th>Source start date</th>
<th>Source end date</th>
<th>Source Lat</th>
<th>Source Long</th>
<th>County</th>
<th>Total Volume from Source (gal)</th>
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</thead>
<tbody>
<tr>
<td>23656</td>
<td>Poth Lake (Landowner Pond) Private Owner</td>
<td>7/12/2014</td>
<td>7/12/2015</td>
<td>39.221306</td>
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<td>23657</td>
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<td>7/12/2015</td>
<td>39.19924</td>
<td>-80.886161</td>
<td>Ritchie</td>
<td>6,690,000</td>
</tr>
</tbody>
</table>
Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

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<table>
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<th>Source start date</th>
<th>Source end date</th>
</tr>
</thead>
<tbody>
<tr>
<td>23658</td>
<td>Eddy Pond (Landowner Pond)</td>
<td>7/12/2014</td>
<td>7/12/2015</td>
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<tr>
<td>23659</td>
<td>Hog Lick Quarry Industrial Facility</td>
<td>7/12/2014</td>
<td>7/12/2015</td>
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</table>

<table>
<thead>
<tr>
<th>Source Lat:</th>
<th>Source Long:</th>
<th>County</th>
<th>Total Volume from Source (gal):</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.19924</td>
<td>-80.886161</td>
<td>Ritchie</td>
<td>6,690,000</td>
</tr>
<tr>
<td>39.419272</td>
<td>-80.217941</td>
<td>Marion</td>
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</tr>
</tbody>
</table>

Max. Daily Purchase (gal): 1,000,000
Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

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- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

**Source ID: 23660 Source Name: Glade Fork Mine Agricultural Facility**

Source start date: 7/12/2014
Source end date: 7/12/2015

Source Lat: 38.965767 Source Long: -80.299313
County: Upshur
Max. Daily Purchase (gal): 1,000,000
Total Volume from Source (gal): 6,690,000

DEP Comments:

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**Recycled Frac Water**

Source ID: 23661 Source Name: Lincoln Unit 1H

Source start date: 7/12/2014
Source end date: 7/12/2015

Source Lat: Source Long: County
Max. Daily Purchase (gal): Total Volume from Source (gal): 6,690,000

DEP Comments:
Received
AUG 23 2013

Office of Oil and Gas
WV Dept. of Environmental Protection