January 21, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706391, issued to EQT PRODUCTION COMPANY, 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: 512482
Farm Name: HARPER, LUCY E.
API Well Number: 47-1706391
Permit Type: Horizontal 6A Well
Date Issued: 01/21/2014

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 (USACOE). Through this permit, you are hereby being advised to consult with USACOE 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 fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95% compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.

4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

7. 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.

8. 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 
W.V.A. CODE §22-6A - WELL WORK PERMIT APPLICATION 

1) Well Operator: EOT Production Company

2) Operator’s Well Number: 512482

3) Elevation, current ground: 1240’

4) Well Type: (a) Gas • Oil • Underground Storage

(b) If Gas: Shallow • Deep • Horizontal •

5) Existing Pad? Yes or No: yes

6) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):

   Target formation is Marcellus at a depth of 6670’ with the anticipated thickness to be 60 feet and anticipated target pressure of 4489 PSI

7) Proposed Total Vertical Depth: 6,670

8) Formation at Total Vertical Depth: Marcellus

9) Proposed Total Measured Depth: 10,793

10) Approximate Fresh Water Strata Depths: 274, 313, 380, 425

11) Method to Determine Fresh Water Depth: By offset wells

12) Approximate Saltwater Depths: none

13) Approximate Coal Seam Depths: 629

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

15) Does proposed well location contain coal seams directly overlying or adjacent to an active mine? If so, indicate name and depth of Mine: None Reported

16) Describe proposed well work:

   Drill and complete a new horizontal well in the Marcellus formation.
   The vertical drill to go down to an approximate depth of 5690’.
   Then kick of the horizontal leg into the Marcellus using a slick water frac.

   Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor). Stage lengths vary from 150 to 450 feet. Average approximately 100,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

18) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): 15.4

19) Area to be disturbed for well pad only, less access road (acres): 15.4
## CASING AND TUBING PROGRAM

### 1B) TYPE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Size</th>
<th>New or Used</th>
<th>Grade</th>
<th>Weight per IL</th>
<th>FOOTAGE, for Drilling</th>
<th>INTERVALS, Left in Well</th>
<th>CEMENT, Fill-up (Cu Ft)</th>
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</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>20</td>
<td>New</td>
<td>MC-50</td>
<td>61</td>
<td>40</td>
<td>40</td>
<td>38 CTS</td>
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<tr>
<td>Fresh Water</td>
<td>13 3/8</td>
<td>New</td>
<td>MC-50</td>
<td>54</td>
<td>505</td>
<td>505</td>
<td>789 CTS</td>
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<tr>
<td>Coal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate</td>
<td>9 5/8</td>
<td>New</td>
<td>MC-50</td>
<td>40</td>
<td>3,103</td>
<td>3,103</td>
<td>1,215 CTS</td>
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<td>Production</td>
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<td>New</td>
<td>P-110</td>
<td>20</td>
<td>10,793</td>
<td>10,793</td>
<td>See Note 1</td>
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<tr>
<td>Tubing</td>
<td>2 3/8</td>
<td></td>
<td>J-55</td>
<td>4.6</td>
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<td>Liners</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Note**: May not be used. If not used, then HCT must be less than 10!

### 2) TYPE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Size</th>
<th>Wellbore Diameter</th>
<th>Wall Thickness</th>
<th>Drain Pressure</th>
<th>Cement Type</th>
<th>Cement Yield (cu. ft/A)</th>
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<tbody>
<tr>
<td>Conductor</td>
<td>20</td>
<td>24</td>
<td>0.375</td>
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<td>Construction</td>
<td>1.18</td>
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<tr>
<td>Fresh Water</td>
<td>13 3/8</td>
<td>17 1/2</td>
<td>0.38</td>
<td>2,480</td>
<td>1</td>
<td>1.21</td>
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<td>Coal</td>
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<tr>
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<td>9 5/8</td>
<td>12 3/8</td>
<td>0.395</td>
<td>3,590</td>
<td>1</td>
<td>1.21</td>
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<tr>
<td>Production</td>
<td>5 1/2</td>
<td>8 1/2</td>
<td>0.361</td>
<td>12,640</td>
<td>-</td>
<td>1.27/1.96</td>
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<tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liners</td>
<td></td>
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</table>

### Packers

<table>
<thead>
<tr>
<th>Kind</th>
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<tbody>
<tr>
<td>Sizes</td>
<td>N/A</td>
</tr>
<tr>
<td>Depths Set</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Note 1**: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.
January 10, 2014

Mr. Gene Smith  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Casing change on OXF149 (512482) 017-06391

Dear Mr. Smith,

Attached is a modification to the casing program for the above well. EQT is requesting the 13 3/8” surface casing to be set 50’ below the deepest red rock show to cover potential red rock issues. The proposed casing set depth is above ground elevation. The reason for this is the red rock swells during drilling of the intermediate section causing many drilling problems such as but not limited to lost drilling assemblies and casing running issues.

After reviewing the OXF149, we would like to request to set the surface casing deeper on each well. The 13 3/8” casing will be set at a depth of approximately 905’ KB (50’ below the anticipated red rock show).

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark  
Permitting Supervisor-WV

Enc.  
cc: Douglas Newlon  
4060 Dutchman Road  
Macfarlan, WV 26148
21) Describe centralizer placement for each casing string.

- **Surface**: Bow spring centralizers – One at the shoe and one spaced every 500’.
- **Intermediate**: Bow spring centralizers – One cent at the shoe and one spaced every 500’.
- **Production**: One spaced every 1000’ from KOP to Int csg shoe

22) Describe all cement additives associated with each cement type.

<table>
<thead>
<tr>
<th>Cement Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surface (Type 1 Cement)</strong></td>
<td>0.3% Calcium Chloride</td>
</tr>
</tbody>
</table>

Used to speed the setting of cement slurries.

<table>
<thead>
<tr>
<th>Cement Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intermediate (Type 1 Cement)</strong></td>
<td>0.3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.</td>
</tr>
<tr>
<td><strong>Production</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lead (Type 1 Cement)</strong></td>
<td>0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.</td>
</tr>
<tr>
<td></td>
<td>0.3% CFR (dispersant). Makes cement easier to mix.</td>
</tr>
<tr>
<td><strong>Tail (Type H Cement)</strong></td>
<td>0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.</td>
</tr>
<tr>
<td></td>
<td>0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.</td>
</tr>
<tr>
<td></td>
<td>60% Calcium Carbonate. Acid solubility.</td>
</tr>
<tr>
<td></td>
<td>0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.</td>
</tr>
</tbody>
</table>

23) Proposed borehole conditioning procedures. **Surface**: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

**Intermediate**: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance hole cleaning use a soap sweep or increase injection rate & foam concentration.

**Production**: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*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: OXF149
OP Code: 
Watershed (HUC10): Left Fork Arnolds Creek
Quadrangle: Oxford 7.5'
Elevation: 1242.5
County: Doddridge
District: West Union

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: No: X

If so please describe anticipated pit waste:

Will a synthetic liner be used in the pit? Yes: No: X If so, what ml? 60

Proposed Disposal Method For Treated Pit Wastes:
- Land Application
- Underground Injection (UIC Permit Number: 0014, 8462, 4037)
- Reuse (at API Number)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain: )

Will closed loop system be used? YES

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air and water based mud

If oil based, what type? Synthetic, petroleum, etc

Additives to be used in drilling medium?
- MUDBAR, Viscosifier, Alum inity Control, Lime, Chloride Salts, Rate Filtration Control
- Deleosurant, Lubricant, Degang, Deleosion, Walnut Shell, X-Cide, SOTLEX Terra

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, Line, sawdust) n/a

Landfill or offsite name/permit number? See Attached List

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): Victoria J. Roark
Company Official Title: Permitting Supervisor

Subscribed and sworn before me this 7th day of September, 2013
Notary Public
My commission expires: 6/17/2018

OFFICIAL SEAL
Notary Public, State of West Virginia
NICHOLAS L. BUSHGARDNER
Rt. 1 Box 4
Liberty, WV 25124
My Commission Expires June 27, 2019

RECEIVED
Office of Oil and Gas
OCT 1 2013
WV Department of Environmental Protection
Proposed Revegetation Treatment: Acres Disturbed 15.4  Prevegetation pH 6.8
Lime 3 Tons/acre or to correct to pH 6.5
Fertilizer (10-20-20 or equivalent) 1/3 lbs/acre (500 lbs minimum)
Mulch 2 Tons/acre

Seed Mixtures

<table>
<thead>
<tr>
<th>Seed Type</th>
<th>Area I</th>
<th>lbs/acre</th>
<th>Area II</th>
<th>Seed Type</th>
<th>lbs/acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>KY-31</td>
<td>40</td>
<td></td>
<td></td>
<td>Orchard Grass</td>
<td>15</td>
</tr>
<tr>
<td>Alsike Clover</td>
<td>5</td>
<td></td>
<td>Alsike Clover</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Annual Rye</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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: Maintain E&S, reseed & mulch any new disturbed areas to WV DNR regulations

Title: Oiler and Inspector Date: 10-4-2013

Field Reviewed? ( ) Yes ( ) No
EQT Production Water plan
Offsite disposals for Marcellus wells

CWS TRUCKING INC.
P.O. Box 391
Williamstown, WV 26187
740-516-3586
Noble County/Noble Township
Permit # 3390

LAD LIQUID ASSETS DISPOSAL INC.
226 Rankin Road
Washington, PA 15301
724-350-2760
724-222-6080
724-229-7034 fax
Ohio County/Wheeling
Permit # USEPA WV 0014

TRI COUNTY WASTE WATER MANAGEMENT, INC.
1487 Toms Run Road
Holbrook, PA 15341
724-627-7178 Plant
724-499-5647 Office
Greene County/Waynesburg
Permit # TC-1009

BROAD STREET ENERGY LLC
37 West Broad Street
Suite 1100
Columbus, Ohio 43215
740-516-5381
Washington County/Belpre Twp.
Permit # 8462

TRIAD ENERGY
P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Noble County/Jackson Township
Permit # 4037

KING EXCAVATING CO.
Advanced Waste Services
101 River Park Drive
New Castle, Pa. 16101
Facility Permit# PAR000029132

Waste Management - Meadowfill Landfill
Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

Waste Management - Northwestern Landfill
512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV
Site Specific Safety and Environmental Plan For

EQT OXF 149 Pad

Doddridge County, WV

For Wells: 512482  512478  512479  513136

Date Prepared: July 31, 2013

WV Oil and Gas Inspector

Date: 10-4-2013
<table>
<thead>
<tr>
<th>Local State Well Inspector</th>
<th>Assigned Specialist Response Numbers</th>
</tr>
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<tbody>
<tr>
<td>WVDEP Office of Oil and Gas Derek Haught</td>
<td>06391</td>
</tr>
<tr>
<td>P. O. Box 85</td>
<td></td>
</tr>
<tr>
<td>Smithville</td>
<td></td>
</tr>
<tr>
<td>WV 26178</td>
<td></td>
</tr>
<tr>
<td><strong>Pollution and Emergency Spills 1-800-642-3074</strong></td>
<td></td>
</tr>
<tr>
<td>304-206-7613 (Cell)</td>
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</tr>
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</table>

**USCG/ National Response Center (NRC):**

- Emergency: 800.424.9300
- Business: 800.262.8200

**US DOT Pipeline and Hazardous Materials Safety Administration (PHMSA):**

- Haz-Mat: 800.467.4922
- Pipeline: 202.366.4595

**Primary Spill Response Company:**

- Ryan Environmental, Inc.
- **EMERGENCY PHONE:** 800.649.5578
- BUSINESS: 304.842.5578
- Route 4 Box 260, 76E
- Bridgeport, WV 26330

**Secondary Spill Response Company:**

- Miller Environmental Inc.
- **EMERGENCY PHONE** 1-888-988-8655
- 1-304-292-8655
- 514 Hartman Run Road
- Morgantown, WV 26505

**Primary Well Emergency Response Company:**

- Wild Well Control
- **EMERGENCY PHONE:** 281-784-4700
- BUSINESS PHONE: 281-784-4700
- 2002 Oil Center Court
- Houston, TX 77073
- Michael Wilford/ PA Safety Coordinator

**Secondary Well Emergency Response Company:**

- Boots & Coots
- **EMERGENCY PHONE:** 1-281-931-8884 or 800-256-9688
- BUSINESS PHONE: same as above
- 10200 Bellaire Blvd.
- Houston, TX 77072

**Primary Hazardous Waste Disposal Company:**

- NAME: Ryan Environmental, Inc.
- **EMERGENCY PHONE:** 800.649.5578
- BUSINESS PHONE: 304.842.5578
- ADDRESS Route 4 Box 260, 76E
- ADDRESS Bridgeport, WV 26330

**Primary Hydrogen Sulfide (H2S) Company:**

- Safety Consultants; McCulley, Eastham, and Associates
- **EMERGENCY PHONE:** 1-800-556-4227
- CONTACT NAME/TITLE: Matt Boggs at 606-922-2066

---

**RECEIVED**
Office of Oil and Gas

**OCT 11 2013**
WV Department of Environmental Protection
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.
**Source Summary**

WMP: 01606  
API Number: 047-017-06391  
Operator: EQT Production Company  
512482 (OXF149H5)

---

**Stream/River**

- **Source**: Ohio River @ Westbrook Trucking Site  
  - Owner: Stephen R. and Janet Sue Westbrook

  - Start Date: 11/1/2013  
  - End Date: 11/1/2014  
  - Total Volume (gal): 5,000,000  
  - Max. daily purchase (gal):  
  - Intake Latitude: 39.384455  
  - Intake Longitude: -81.25645

  - Regulated Stream? 
  - Ohio River Min. Flow  
  - Ref. Gauge ID: 9999999  
  - Ohio River Station: Willow Island Lock & Dam

- **Max. Pump rate (gpm)**: 1,260  
- **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

- **Source**: Ohio River @ Select Energy  
  - Owner: Select Energy

  - Start Date: 11/1/2013  
  - End Date: 11/1/2014  
  - Total Volume (gal): 5,000,000  
  - Max. daily purchase (gal):  
  - Intake Latitude: 39.346473  
  - Intake Longitude: -81.338727

  - Regulated Stream? 
  - Ohio River Min. Flow  
  - Ref. Gauge ID: 9999998  
  - Ohio River Station: Racine Dam

- **Max. Pump rate (gpm)**: 1,500  
- **Min. Gauge Reading (cfs)**: 7,216.00  
- **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

- **Source**: Middle Island Creek @ Travis Truck Pad  
  - Owner: Michael J. Travis

  - Start Date: 11/1/2013  
  - End Date: 11/1/2014  
  - Total Volume (gal): 5,000,000  
  - Max. daily purchase (gal):  
  - Intake Latitude: 39.308545  
  - Intake Longitude: -80.781102

  - Regulated Stream?  
  - Ref. Gauge ID: 3114500  
  - MIDDLE ISLAND CREEK AT LITTLE, WV

- **Max. Pump rate (gpm)**: 4,200  
- **Min. Gauge Reading (cfs)**: 72.16  
- **Min. Passby (cfs)**: 28.33

  DEP Comments:
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<thead>
<tr>
<th>Source</th>
<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>
<th>Max. Pump rate (gpm)</th>
<th>Min. Gauge Reading (cfs)</th>
<th>Min. Passby (cfs)</th>
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<tbody>
<tr>
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<td>11/1/2013</td>
<td>11/1/2014</td>
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<td>1,260</td>
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<td>End Date</td>
<td>Total Volume (gal)</td>
<td>Max. daily purchase (gal)</td>
<td>Intake Latitude</td>
<td>Intake Longitude</td>
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<tr>
<td>South Fork of Hughes River @ Upper Wizard Run</td>
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<td>South Fork of Hughes River @ Harmony Road</td>
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<td>11/1/2014</td>
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<td>Straight Fork @ Maxson Withdrawal Site</td>
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<tr>
<th>Max. Pump rate (gpm)</th>
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<th>Min. Passby (cfs)</th>
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DEP Comments:
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<th>Total Volume (gal)</th>
<th>Max. daily purchase (gal)</th>
<th>Intake Latitude</th>
<th>Intake Longitude</th>
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<tbody>
<tr>
<td>11/1/2013</td>
<td>11/1/2014</td>
<td>5,000,000</td>
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</tbody>
</table>

☐ Regulated Stream?

Max. Pump rate (gpm): 840

Min. Gauge Reading (cfs): 35.81

Min. Passby (cfs): 0.86

DEP Comments:
**Source Detail**

- **WMP:** 01606
- **API/ID Number:** 047-017-06391
- **Operator:** EQT Production Company
- **Source ID:** 30289
- **Source Name:** Ohio River @ Westbrook Trucking Site
  - Stephen R. and Janet Sue Westbrook
- **HUC-8 Code:** 5030201
- **Drainage Area (sq. mi.):** 25000
- **County:** Pleasants
- **Anticipated withdrawal start date:** 11/1/2013
- **Anticipated withdrawal end date:** 11/1/2014
- **Total Volume from Source (gal):** 5,000,000
- **Max. Pump rate (gpm):** 1,260
- **Max. Simultaneous Trucks:** 0
- **Max. Truck pump rate (gpm):** 0

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

### Median Monthly Flow (cfs)

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<tr>
<th>Month</th>
<th>Median monthly flow (cfs)</th>
<th>Threshold (+ pump)</th>
<th>Estimated Available water (cfs)</th>
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<td>4</td>
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<td>15,500.00</td>
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<td>41,300.00</td>
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</tbody>
</table>

**Water Availability Profile**

![Water Availability Profile](image)

*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):** 2.81
- **Headwater Safety (cfs):** 0.00
- **Ungauged Stream Safety (cfs):** 1,617.00

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

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<tr>
<th>Parameter</th>
<th>Value</th>
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<tr>
<td>Upstream Demand (cfs)</td>
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<tr>
<td>Downstream Demand (cfs)</td>
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<td>Pump rate (cfs)</td>
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<tr>
<td>Headwater Safety (cfs)</td>
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<td>Ungauged Stream Safety (cfs)</td>
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</tbody>
</table>

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: 01606
API/ID Number: 047-017-06391
Operator: EQT Production Company

512482 (OXF149H5)

Source ID: 30291
Source Name: Middle Island Creek @ Travis Truck Pad
Michael J. Travis
HUC-8 Code: 5030201
Drainage Area (sq. mi.): 122.83
Count: Doddridge

Endangered Species? □
Trout Stream? □
Regulated Stream? □
Proximate PSD? ✔
Gauged Stream? ✔

Mussel Stream?
Tier 3?
West Union Municipal Water

Source Latitude: 39.308545
Source Longitude: -80.781102

Anticipated withdrawal start date: 11/1/2013
Anticipated withdrawal end date: 11/1/2014
Total Volume from Source (gal): 5,000,000
Max. Pump rate (gpm): 4,200
Max. Simultaneous Trucks: 10
Max. Truck pump rate (gpm) 420

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 (cfs)</th>
<th>Threshold (+ pump)</th>
<th>Estimated Available water (cfs)</th>
</tr>
</thead>
<tbody>
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<td>101.10</td>
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<td>14.35</td>
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<td>37.14</td>
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<td>12</td>
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<td>60.11</td>
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</table>

Water Availability Profile

Water Availability Assessment of Location

Base Threshold (cfs): 12.07
Upstream Demand (cfs): 6.55
Downstream Demand (cfs): 13.24
Pump rate (cfs): 9.36
Headwater Safety (cfs): 3.02
Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): 72.16
Passby at Location (cfs): 28.33

"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**

**W/MP:** 01606  
**API/ID Number:** 047-017-06391  
**Operator:** EQT Production Company

512482 (OXF149H5)

**Source ID:** 30292  
**Source Name:** Middle Island Creek @ Rock Run  
**William Whitehill**

**HUC-8 Code:** 5030201  
**Drainage Area (sq. mi.):** 107.35  
**County:** Doddridge

- [✓] Endangered Species?
- [✓] Mussel Stream?
- [✓] Proximate PSD?
- [✓] Gauged Stream?
- [✓] Trout Stream?
- [✓] Tier 3?

**Source Latitude:** 39.298763  
**Source Longitude:** -80.760682

Anticipated withdrawal start date: 11/1/2013  
Anticipated withdrawal end date: 11/1/2014

**Total Volume from Source (gal):** 5,000,000

**Max. Pump rate (gpm):** 1,680  
**Max. Simultaneous Trucks:** 4

**Max. Truck pump rate (gpm):** 420

**Reference Gaug:** 3114500  
**MIDDLE ISLAND CREEK AT LITTLE, WV**

- [✓] Drainage Area (sq. mi.)
- [✓] 458.00

**Gauge Threshold (cfs):** 45

<table>
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<tr>
<th>Month</th>
<th>Median monthly flow (+ pump) (cfs)</th>
<th>Threshold (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>19.74</td>
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<td>144.81</td>
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**Estimated Available water (cfs):**

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<th>Month</th>
<th>Median monthly flow (+ pump) (cfs)</th>
<th>Threshold (cfs)</th>
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<td>12</td>
<td>59.76</td>
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</table>

**Water Availability Assessment of Location**

- **Base Threshold (cfs):** 10.55
- **Upstream Demand (cfs):** 2.81
- **Downstream Demand (cfs):** 13.24
- **Pump rate (cfs):** 3.74
- **Headwater Safety (cfs):** 2.64
- **Ungauged Stream Safety (cfs):** 0.00

- **Min. Gauge Reading (cfs):** 62.80
- **Passby at Location (cfs):** 26.42

"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: 30293  Source Name: Middle Island Creek @ Barnes Withdrawal Site
Ellen L. Barnes

HUC-8 Code: 5030201  County: Doddridge

Anticipated withdrawal start date: 11/1/2013  Anticipated withdrawal end date: 11/1/2014

Total Volume from Source (gal): 5,000,000

Max. Pump rate (gpm): 1,260

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

Reference Gaug 3114500  MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.): 107.08  Gauge Threshold (cfs): 45

<table>
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<th>Month</th>
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<td>79.10</td>
<td>18.59</td>
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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.

Base Threshold (cfs): 10.52
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 13.24
Pump rate (cfs): 2.81
Headwater Safety (cfs): 2.63
Ungauged Stream Safety (cfs): 2.63

Min. Gauge Reading (cfs): 70.31
Passby at Location (cfs): 29.02

west virginia department of environmental protection

12/3/2013 1:24:03 PM
## Source Detail

**Source ID:** 30294  
**Source Name:** Meathouse Fork @ Spiker Withdrawal Site  
**John & Sue Spiker**

**HUC-8 Code:** 5030201  
**Drainage Area (sq. mi.):** 62.75  
**County:** Doddridge

- **Endangered Species:** Yes  
- **Mussel Stream:** Yes

**Source Latitude:** 39.2591  
**Source Longitude:** -80.72489

**Anticipated withdrawal start date:** 11/1/2013  
**Anticipated withdrawal end date:** 11/1/2014

**Total Volume from Source (gal):** 5,000,000  
**Max. Pump rate (gpm):** 1,260

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

### Reference Gaug

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

<table>
<thead>
<tr>
<th>Month</th>
<th>Median monthly flow (+ pump)</th>
<th>Threshold (+ pump)</th>
<th>Estimated Available water (+ pump)</th>
</tr>
</thead>
<tbody>
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<td>18.97</td>
<td>16.52</td>
<td>2.77</td>
</tr>
<tr>
<td>12</td>
<td>46.35</td>
<td>16.52</td>
<td>30.15</td>
</tr>
</tbody>
</table>

### Water Availability Profile

![Water Availability Profile](image)

"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):** 6.17
- **Upstream Demand (cfs):** 4.46
- **Downstream Demand (cfs):** 0.00
- **Pump rate (cfs):** 2.81
- **Headwater Safety (cfs):** 1.54
- **Ungauged Stream Safety (cfs):** 1.54

**Min. Gauge Reading (cfs):** 74.77  
**Passby at Location (cfs):** 9.25
Source ID: 30295  Source Name: South Fork of Hughes River @ Upper Wizard Run
I.L. Morris

HUC-8 Code: 5030203
Drainage Area (sq. mi.): 5.33  County: Doddridge


Mussel Stream? ☑ Tier 3? ☐

Source Latitude: 39.189998  Source Longitude: -80.79511
Anticipated withdrawal start date: 11/1/2013
Anticipated withdrawal end date: 11/1/2014
Total Volume from Source (gal): 5,000,000
Max. Pump rate (gpm): 1,260
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

<table>
<thead>
<tr>
<th>Month</th>
<th>Median monthly flow (+ pump)</th>
<th>Threshold Available water (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>14.97</td>
<td>6.26</td>
</tr>
<tr>
<td>2</td>
<td>19.52</td>
<td>6.26</td>
</tr>
<tr>
<td>3</td>
<td>21.37</td>
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<td>4</td>
<td>12.08</td>
<td>6.26</td>
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<td>5</td>
<td>8.48</td>
<td>6.26</td>
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<td>6</td>
<td>4.56</td>
<td>6.26</td>
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<td>7</td>
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<td>11</td>
<td>5.09</td>
<td>6.26</td>
</tr>
<tr>
<td>12</td>
<td>10.51</td>
<td>6.26</td>
</tr>
</tbody>
</table>

Water Availability Profile

Water Availability Assessment of Location

Base Threshold (cfs): 0.51
Upstream Demand (cfs): 2.81
Downstream Demand (cfs): 0.00
Pump rate (cfs): 2.81
Headwater Safety (cfs): 0.13
Ungauged Stream Safety (cfs): 0.00
Min. Gauge Reading (cfs): 33.12
Passby at Location (cfs): 0.64

"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

Source ID: 30296  Source Name: South Fork of Hughes River @ Harmony Road
I.L. Morris

HUC-8 Code: 5030203  Drainage Area (sq. mi.): 8.1  County: Doddridge


Gauged Stream?  

Source Latitude: 39.1962  Source Longitude: -80.81442

Anticipated withdrawal start date: 11/1/2013  Anticipated withdrawal end date: 11/1/2014

Total Volume from Source (gal): 5,000,000  Max. Pump rate (gpm): 1,260

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

<table>
<thead>
<tr>
<th>Month</th>
<th>Median monthly flow (+ pump)</th>
<th>Threshold Available water (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>22.75 6.59</td>
<td>16.28 23.19 26.01 11.89 6.41</td>
</tr>
<tr>
<td>2</td>
<td>29.66 6.59</td>
<td>-3.04 -4.49 -4.09 -3.88 1.27</td>
</tr>
<tr>
<td>3</td>
<td>32.48 6.59</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>18.36 6.59</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>12.88 6.59</td>
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<td>6.92 6.59</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>3.43 6.59</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1.98 6.59</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>2.38 6.59</td>
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<td>2.59 6.59</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>7.74 6.59</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>15.97 6.59</td>
<td></td>
</tr>
</tbody>
</table>

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): 0.78
Upstream Demand (cfs): 2.81
Downstream Demand (cfs): 0.00
Pump rate (cfs): 2.81
Headwater Safety (cfs): 0.19
Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): 33.12
Passby at Location (cfs): 0.97

west virginia department of environmental protection 12/3/2013 1:24:04 PM
### Source Detail

**Source ID:** 30297  
**Source Name:** Straight Fork @ Maxson Withdrawal Site  
**Operator:** EQT Production Company  
**Latitude:** 39.144317  
**Longitude:** -80.848587  

- **HUC-8 Code:** 5030203  
- **Drainage Area (sq. mi.):** 16.99  
- **County:** Ritchie  

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

**Anticipated withdrawal start date:** 11/1/2013  
**Anticipated withdrawal end date:** 11/1/2014  
**Total Volume from Source (gal):** 5,000,000  
**Max. Pump rate (gpm):** 1,680  
**Max. Simultaneous Trucks:** 4  
**Max. Truck pump rate (gpm):** 420

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

### Median Monthly Flow (+ pump) vs. Estimated Available Water (cfs)

<table>
<thead>
<tr>
<th>Month</th>
<th>Median monthly flow (+ pump) (cfs)</th>
<th>Estimated Available water (cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>47.72</td>
<td>41.62</td>
</tr>
<tr>
<td>2</td>
<td>62.22</td>
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<td>3</td>
<td>68.13</td>
<td>62.04</td>
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<tr>
<td>4</td>
<td>38.52</td>
<td>32.42</td>
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<td>5</td>
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<td>10.13</td>
</tr>
<tr>
<td>12</td>
<td>33.50</td>
<td>27.40</td>
</tr>
</tbody>
</table>

### Water Availability Profile

- **Base Threshold (cfs):** 1.63  
- **Upstream Demand (cfs):** 0.00  
- **Downstream Demand (cfs):** 0.00  
- **Pump rate (cfs):** 3.74  
- **Headwater Safety (cfs):** 0.41  
- **Ungauged Stream Safety (cfs):** 0.41  
- **Min. Gauge Reading (cfs):** 36.74  
- **Passby at Location (cfs):** 2.45

"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.
"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.
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.

Ground Water

<table>
<thead>
<tr>
<th>Source ID</th>
<th>Source Name</th>
<th>Source start date</th>
<th>Source end date</th>
</tr>
</thead>
<tbody>
<tr>
<td>30299</td>
<td>Groundwater Well TW#1</td>
<td>11/1/2013</td>
<td>11/1/2014</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>39.56059</td>
<td>-80.56027</td>
<td>Wetzel</td>
<td>5,000,000</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:

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---

**Lake/Reservoir**

<table>
<thead>
<tr>
<th>Source ID:</th>
<th>30300</th>
<th>Source Name</th>
<th>Pennsboro Lake</th>
<th>Source start date:</th>
<th>11/1/2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Lat:</td>
<td>39.281689</td>
<td>Source Long:</td>
<td>-80.925526</td>
<td>Source end date:</td>
<td>11/1/2014</td>
</tr>
<tr>
<td>Max. Daily Purchase (gal):</td>
<td></td>
<td>County</td>
<td></td>
<td>Total Volume from Source (gal):</td>
<td>5,000,000</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:

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Multi-site impoundment

<table>
<thead>
<tr>
<th>Source ID</th>
<th>Source Name</th>
<th>Source start date</th>
<th>Source end date</th>
<th>County</th>
<th>Max. Daily Purchase (gal)</th>
<th>Total Volume from Source (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30301</td>
<td>Davies Centralized Freshwater Impoundment</td>
<td>11/1/2013</td>
<td>11/1/2014</td>
<td>Doddridge</td>
<td>39.269635</td>
<td>5,000,000</td>
</tr>
<tr>
<td>30302</td>
<td>OXF149 Tank Pad A</td>
<td>11/1/2013</td>
<td>11/1/2014</td>
<td>Doddridge</td>
<td>39.221932</td>
<td>5,000,000</td>
</tr>
</tbody>
</table>

DEP Comments: The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-1083

Reference: WMP-1532
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>
<thead>
<tr>
<th>Source ID</th>
<th>Source Name</th>
<th>Source Lat</th>
<th>Source Long</th>
<th>Source start date</th>
<th>Source end date</th>
<th>County</th>
<th>Total Volume from Source (gal)</th>
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<tbody>
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<td>30303</td>
<td>OXF149 Tank Pad B</td>
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<td>11/1/2013</td>
<td>11/1/2014</td>
<td>Doddridge</td>
<td>5,000,000</td>
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DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-1533

Recycled Frac Water

<table>
<thead>
<tr>
<th>Source ID</th>
<th>Source Name</th>
<th>Source Lat</th>
<th>Source Long</th>
<th>Source start date</th>
<th>Source end date</th>
<th>County</th>
<th>Total Volume from Source (gal)</th>
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<tbody>
<tr>
<td>30304</td>
<td>Various</td>
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<td></td>
<td>11/1/2013</td>
<td>11/1/2014</td>
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<td>5,000,000</td>
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</tbody>
</table>

DEP Comments: