July 08, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706250, 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: 514318
Farm Name: JORDAN FAMILY PARTNERSHIP
API Well Number: 47-1706250
Permit Type: Horizontal 6A Well
Date Issued: 07/08/2013

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.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
W.Va. Code §32-6A - WELL WORK PERMIT APPLICATION

Well Operator: EQT Production Company
Operator ID 017
County 3
District 286
Quadrangle

Operator’s Well Number: 514318
Well Pad Name: CPT11

Elevation, current ground: 1,130.0
Elevation, proposed post-construction: 1,111.0

Well Type: (a) Gas (b) Oil
Other

(b) If Gas: (b) Shallow (c) Deep

Existing Pad? Yes or No: No

Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):
Target formation is Marcellus at a depth of 652' with the anticipated thickness to be 46 feet and anticipated target pressure of 4691 PSI

Proposed Total Vertical Depth: 7,101
Form at Total Vertical Depth: Onondaga
Proposed Total Measured Depth: 14,600

Approximate Fresh Water Strata Depths: 66,337,386, 406, 616, 704
Method to Determine Fresh Water Depth: By offset wells
Approximate Saltwater Depths: 1661 & 1389
Approximate Coal Seam Depths: 852 & 1264

Approximate Depth to Possible Void (coal mine, karst, other): None Reported
Does land contain coal seams tributary or adjacent to, active mine? None Reported

Describe proposed well work: Drill and complete a new horizontal well. The vertical drill to go down to approximately depth of 7101' Tagging the Onondaga not more than 100' then plug back to approximately 552' and kick off the horizontal leg into the marcellus using a slick water frac.

Describe fracturing/stimulating methods in detail:
Acoustic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from swater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, illing agent, gel breaker, friction reducer, biocide, and scale inhibitor). Stage lengths vary from 150 to 450 feet. Average approximately 3,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

Total area to be disturbed, including roads, stockpile area, pits, etc. (acres): 43.82

Area to be disturbed for well pad only, less access road (acres): 15.68

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Office of Oil and Gas
APR 26 2013
WV Department of Environmental Protection

07/12/2013
Douglas Newb
## CASING AND TUBING PROGRAM

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<th>TYPE</th>
<th>Size</th>
<th>New or Used</th>
<th>Grade</th>
<th>Weight per ft</th>
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<th>INTERVALS: Left in Well</th>
<th>CEMENT: Fill-up (Cu.Fl.)</th>
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<td>New</td>
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<td>14,600</td>
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<td>2 3/8</td>
<td>J-55</td>
<td>4.6</td>
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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.
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 casing shoe

22) Describe all cement additives associated with each cement type.  
**Surface (Type 1 Cement):** 0-3% Calcium Chloride

Used to speed the setting of cement slurries.

- 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.

**Intermediate (Type 1 Cement):** 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.

**Production:**

**Lead (Type 1 Cement):** 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.

0.3% CFR (dispersant). Makes cement easier to mix.

**Tail (Type H Cement):** 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.

0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.

60% Calcium Carbonate. Acid solubility.

0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.

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.
Operator Name: CPT11  OP Code:  
Watershed: Flint Run of McIntyre Creek  Quadrangle: Center Point 7.5' 
Elevation: 1111.0  County: Doddridge  District: Grant 
Description of anticipated Pit Waste: N/A 
Do you anticipate using more than 5,000 lbs of water to complete the proposed well work? Yes ☑ No  
Will a synthetic liner be used in the pit? N/A If so, what mil.? N/A 

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

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? MDMA, Viscosity, Additive, Bitumen, Chloride Salts, Phosphate Detergent, Detergents, Lubricant, Detergent, Bitumen, Walnut Shell, X-Cope, DOLTTEX Terra Rate  
Will closed loop system be used? YES  
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill  
If left in pit and plan to solidity what medium will be used? Cement, lime, 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. Beaird  
Company Official Title: Permitting Supervisor  

Subscribed and sworn before me this day of , 2013  
My commission expires  

Notary Public:  

07/12/2013
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

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

LAD LIQUID ASSETS DISPOSAL INC.
226 Rankin Road
Washington, PA 15301
724-330-2760
724-222-6080
724-229-7034 fax
Ohio County/Wheeling
Permit # USEPA WV 0014

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

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

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

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WV Department of Environmental Protection

07/12/2013
Proposed Revegetation Treatment: Acres Disturbed 43.82
Prevegetation pH 7.6

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

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<th>Seed Type</th>
<th>Area I</th>
<th>Area II</th>
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<tbody>
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<td>KY-31</td>
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<tr>
<td>Alsike Clover</td>
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<td>5</td>
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<tr>
<td>Annual Rye</td>
<td>15</td>
<td></td>
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<tr>
<td>Orchard Grass</td>
<td></td>
<td>15</td>
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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: Reseed & Mulch Install KE 5 to Dep Regulations

Title: Oil & Gas Inspector Date: 4-19-2013

Field Reviewed? Yes No

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APR 26 2013
WV Department of Environmental Protection
07/12/2013
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: 01220  API Number: 047-017-06250  Operator: EQT Production Company

514318 (CPT11H3)

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### Stream/River

**Source**  
Ohio River at Hannibal, OH  
Owner: Richard Potts/Rich Merryman

- **Start Date**: 6/1/2013  
- **End Date**: 6/1/2014  
- **Total Volume (gal)**: 10,200,000  
- **Max. daily purchase (gal)**:  
- **Intake Latitude**: 39.655883  
- **Intake Longitude**: -80.86678  
- **Regulated Stream?**: Yes  
- **Ohio River Min. Flow**  
- **Ref. Gauge ID**: 9999999  
- **Ohio River Station**: Willow Island Lock & Dam

- **Max. Pump rate (gpm)**: 1,500  
- **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**  
Ohio River @ Westbrook Trucking Site  
Owner: Stephen R. and Janet Sue Westbrook

- **Start Date**: 6/1/2013  
- **End Date**: 6/1/2014  
- **Total Volume (gal)**: 10,200,000  
- **Max. daily purchase (gal)**:  
- **Intake Latitude**: 39.384455  
- **Intake Longitude**: -81.25645  
- **Regulated Stream?**: No  
- **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](http://www.erh.noaa.gov/ohrfc//flows.shtml)

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

- **Start Date**: 6/1/2013  
- **End Date**: 6/1/2014  
- **Total Volume (gal)**: 10,200,000  
- **Max. daily purchase (gal)**:  
- **Intake Latitude**: 39.346473  
- **Intake Longitude**: -81.338727  
- **Regulated Stream?**: Yes  
- **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](http://www.erh.noaa.gov/ohrfc//flows.shtml)
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<th>Total Volume (gal)</th>
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<td>Elton Wine</td>
<td>6/1/2013</td>
<td>6/1/2014</td>
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<td>MIDDLE ISLAND CREEK AT LITTLE, WV</td>
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<tr>
<td>Max. Pump rate (gpm):</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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- **Regulated Stream?** Tygart Valley Dam  
- **Ref. Gauge ID:** 3057000  
- **TYGART VALLEY RIVER AT COLFA, WV**

- **Max. Pump rate (gpm):** 1,260  
- **Min. Gauge Reading (cfs):** 404.79  
- **Min. Passby (cfs):** 392.62

**DEP Comments:**
Source Detail

WMP-01220  API/ID Number: 047-017-06250  Operator: EQT Production Company
514318 (CPT11H3)

Source ID: 17840  Source Name: Ohio River at Hannibal, OH
Richard Potts/Rich Merryman

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

Endangered Species?  Mussel Stream?
Trout Stream?  Tier 3?
Regulated Stream?  Ohio River Min. Flow
Proximate PSD?  New Martinsville
Gauged Stream?

Anticipated withdrawal start date: 6/1/2013  Anticipated withdrawal end date: 6/1/2014
Total Volume from Source (gal): 10,200,000
Max. Pump rate (gpm): 1,500
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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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): 3.34
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.

07/12/2013
west virginia department of environmental protection
6/11/2013 11:41:32 AM
**Source Detail**

WMP: 01220  
API/ID Number: 047-017-06250  
Operator: EQT Production Company

Source ID: 17841  
Source Name: Ohio River @ Westbrook Trucking Site  
Stephen R. and Janet Sue Westbrook

HUC-8 Code: 5030201  
Drainage Area (sq. mi.): 2500  
County: Pleasants

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

Mussel Stream?  
Tier 3?

Ohio River Min. Flow

Source Latitude: 39.384455  
Source Longitude: -81.25645

Anticipated withdrawal start date: 6/1/2013  
Anticipated withdrawal end date: 6/1/2014  
Total Volume from Source (gal): 10,200,000

Max. Pump rate (gpm): 1,260  
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): 5468

**Water Availability Profile**

![Water Availability Profile](chart)

**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):

"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.

07/12/2013

west virginia department of environmental protection

6/11/2013 11:41:32 AM
Source Detail

WMP: 01220
API/ID Number: 047-017-06250
Operator: EQT Production Company

514318 (CPT11H3)

Source ID: 17842  Source Name: Ohio River @ Select Energy
Select Energy

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  Gauged Stream?

Source Latitude: 39.346473
Source Longitude: -81.338727

Anticipated withdrawal start date: 6/1/2013
Anticipated withdrawal end date: 6/1/2014
Total Volume from Source (gal): 10,200,000
Max. Pump rate (gpm): 1,500
Max. Simultaneous Trucks: 0
Max. Truck pump rate (gpm) 0

Reference Gaug  Ohio River Station: Racine Dam
9999998

Drainage Area (sq. mi.) 25,000.00

Gauge Threshold (cfs): 7215

Water Availability Assessment of Location
Base Threshold (cfs): -
Upstream Demand (cfs): 0.00
Downstream Demand (cfs): 0.00
Pump rate (cfs): 3.34
Headwater Safety (cfs): 0.00
Ungauged Stream Safety (cfs): 0.00

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

07/12/2013
west virginia department of environmental protection
6/11/2013 11:41:32 AM

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.

Month

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<th>Month</th>
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<th>Threshold (+ pump)</th>
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Source Detail

WMP: 01220  API/ID Number: 047-017-06250  Operator: EQT Production Company

514318 (CPT11H3)

Source ID: 17843  Source Name: Middle Island Creek @ Travis Truck Pad
Michael J. Travis

HUC-8 Code: 5030201  Drainage Area (sq. mi.): 122.83  County: Doddridge

☑ Endangered Species?  ☑ Mussel Stream?
☐ Trout Stream?  ☐ Tier 3?
☐ Regulated Stream?  ☑ Proximate PSD?
☑ Gauged Stream?  West Union Municipal Water

Source Latitude: 39.308545  Source Longitude: -80.781102

Anticipated withdrawal start date: 6/1/2013  Anticipated withdrawal end date: 6/1/2014
Total Volume from Source (gal): 10,200,000
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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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.

07/12/2013
Source Detail

WMP: 01220  API/ID Number: 047-017-06250  Operator: EQT Production Company

514318 (CPT11H3)

Source ID: 17844   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?
☐ Trout Stream?  ☐ Tier 3?
☐ Regulated Stream?  ☑ Proximate PSD?
☑ Gauged Stream?

Source Latitude: 39.298763  Source Longitude: -80.760682
Anticipated withdrawal start date: 6/1/2013
Anticipated withdrawal end date: 6/1/2014
Total Volume from Source (gal): 10,200,000
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

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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: 17845  Source Name: McElroy Creek @ Wine Withdrawal Site Elton Wine

HUC-8 Code: 5030201  Drainage Area (sq. mi.): 57.19  County: Doddridge

Endangered Species? Yes  Mussel Stream? Yes
Trout Stream? No  Regulated Stream? No
Proximate PSD? No  Gauged Stream? No

Source Latitude: 39.39402  Source Longitude: -80.70576

Anticipated withdrawal start date: 6/1/2013  Anticipated withdrawal end date: 6/1/2014
Total Volume from Source (gal): 10,200,000
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.) 458.00  Gauge Threshold (cfs): 45

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Water Availability Profile

Water Availability Assessment of Location

Base Threshold (cfs): 5.62
Upstream Demand (cfs): 2.23
Downstream Demand (cfs): 2.23
Pump rate (cfs): 2.81
Headwater Safety (cfs): 1.40
Ungauged Stream Safety (cfs): 1.40
Min. Gauge Reading (cfs): 72.54
Passby at Location (cfs): 10.66

"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: 17846  Source Name: Tygart River @ Kuhnes Withdrawal Site A

Charlie & Peggy Kuhnes

HUC-8 Code: 5020001

Drainage Area (sq. mi.): 1302.2  County: Taylor

☐ Endangered Species?  ☑ Mussel Stream?

☐ Trout Stream?  ☐ Tier 3?

☑ Regulated Stream?  Tygart Valley Dam

☐ Proximate PSD?

☑ Gauged Stream?

Source Latitude: 39.35692

Source Longitude: -80.05474

Anticipated withdrawal start date: 6/1/2013

Anticipated withdrawal end date: 6/1/2014

Total Volume from Source (gal): 10,200,000

Max. Pump rate (gpm): 1,260

Max. Simultaneous Trucks: 0

Max. Truck pump rate (gpm) 0

Reference Gaug

3057000  TYGART VALLEY RIVER AT COLFAK, WV

Drainage Area (sq. mi.) 1,363.00

Gauge Threshold (cfs): 624

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</tr>
<tr>
<td>12</td>
<td>2,905.01</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</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.

4000
3000
2000
1000
0

0 1 2 3 4 5 6 7 8 9 10 11 12

Median Monthly Flow  Threshold

Water Availability Assessment of Location

Base Threshold (cfs): -

Upstream Demand (cfs): 20.95

Downstream Demand (cfs): 11.59

Pump rate (cfs): 2.81

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.

07/12/2013
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.

---

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>17847</td>
<td>Maxson Property Test Well #1</td>
<td>6/1/2013</td>
<td>6/1/2014</td>
</tr>
<tr>
<td>Source Lat</td>
<td>Source Long</td>
<td>County</td>
<td>Total Volume from Source (gal)</td>
</tr>
<tr>
<td>39.14472</td>
<td>-80.84664</td>
<td>Dodridge</td>
<td>10,200,000</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:

• 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

Source ID: 17853  Source Name: Pennsboro Lake
Source start date: 6/1/2013  Source end date: 6/1/2014
Source Lat: 39.281689  Source Long: -80.925526
County: Ritchie
Max. Daily Purchase (gal): Total Volume from Source (gal): 10,200,000

DEP Comments:

Recycled Frac Water

Source ID: 17854  Source Name: Various
Source start date: 6/1/2013  Source end date: 6/1/2014
Source Lat:  Source Long:  County
Max. Daily Purchase (gal): Total Volume from Source (gal): 10,200,000

DEP Comments:
EQT PRODUCTION COMPANY
J.D. McReynolds Lease 1500± Acres
Well No. WV 514318

State Plane Coordinates
North Zone (NAD 27)
N: 364,446 ft
E: 1,564,140 ft

UTM (NAD 83) (METERS)
N: 335,548 m
E: 528,815 m

LAT-(N) 39.39484
LONG-(W) 80.726876

LANDING POINT
Well No. WV 514318
State Plane Coordinates
North Zone (NAD 27)
N: 335,581 ft
E: 1,565,547 ft

UTM (NAD 83) (METERS)
N: 336,505 m
E: 529,547 m

LAT-(N) 39.391949
LONG-(W) 80.725673

NOTES ON SURVEY
1. TIES TO WELLS, CORNERS, AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV
   STATE PLANE COORDINATE SYSTEM NORTH ZONE
   NAD 27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 280 PAGE 665, DEED BOOK
   223 PAGE 430, DEED BOOK 282 PAGE 408 &
   DEED BOOK 175 PAGE 633.
3. SURVEY OWNER AND ADJOINER INFORMATION
   TAKEN FROM THE ASSESSOR AND COUNTY
   CLERK RECORDS OF DODDERIDGE COUNTY IN
   JULY, 2013.
4. WELL LAT/Long (NAD 27) ESTABLISHED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK).

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE: MARCH 15

OPERATORS WELL NO.
H & A
WV 514318

API WELL
No. 47 — STATE
17 — COUNTY

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

MINIMUM DEGREE OF ACCURACY
1 / 200

PROVEN SOURCE OF ELEVATION
DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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

ELEVATION 1,310 (GROUND) 1,111 (PROPOSED) FT
WATERSHED FLINT RUN OF McELROY CREEK
DISTRICT GRANT COUNTY DODDSDRIDGE
SURFACE OWNER JON D. McREYNOLDS
ROYALTY OWNER J. D. McREYNOLDS HEIRS/ASSIGNS
PROPOSED WORK:
DRILL X CONVERT DRILL DEEPER
REDRAIL FRACTURE OR STIMULATE X PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
PHYSICAL CHANGE IN WELL (SPECIFY)
TARGET FORMATION MARCELLUS
ESTIMATED DEPTH

WELL OPERATOR EQT PRODUCTION COMPANY
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280
BRIDGEPORT, WV 26330

DESIGNATED AGENT REX C. RAY
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280
BRIDGEPORT, WV 26330

07/12/2013