

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 04, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10302968, 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: WV 514376

Farm Name: COASTAL FOREST RESOURCES

API Well Number: 47-10302968

Permit Type: Horizontal 6A Well

Date Issued: 12/04/2013

Promoting a healthy environment.

API Number: 103-02968

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.

10/24

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

 Well Operator: EQT Product 	tion Company			103	4	548	
			Operator ID	County	District	Quadrangle	
2) Operator's Well Number:		514376		_Well Pad Name	PN	G129	
3) Farm Name/Surface Owner :		Lacock		Public Road Ac	cess: Lown	nan Ridge Road	
4) Elevation, current ground:	1,328.0	_ Elevat	ion, proposed p	ost-construction:	1,328.0		
5) Well Type: (a) Gas	Oil	Un	derground Stora	age			
Other							
(b) If Gas:	Shallow	•	Deep				
	Horizontal	•					
6) Existing Pad? Yes or No:	Yes						
3) Proposed Total Vertical Depth	•			7,318		······································	
9) Formation at Total Vertical De				NA			DM1
0) Proposed Total Measured De			11,708				
11) Proposed Horizontal Leg Ler			2,667				12 0
12) Approximate Fresh Water St	rata Depths:			620, 656, 680,	731		
3) Method to Determine Fresh Water Depth:							
4) Approximate Saltwater Depths:							
15) Approximate Coal Seam Dep				65, 1035, 1049, 1			
16) Approximate Depth to Possib					None report	ed V	
17)Does proposed well location	n contain coal s	seams directl	y overlying or				
adjacent to an active mine?	Managa						
(a) If Yes, provide Mine Info:							
	0						
	Owner:						
	O				47		

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CASING AND TUBING PROGRAM

18) TYPE	Size	New	Grade	Weight per	FOOTAGE:	INTERVALS:	CEMENT:
		<u>or</u>		<u>ft.</u>	for Drilling	<u>Left in Well</u>	Fill- up (Cu.Ft.)
		<u>Used</u>					
Conductor	20	New	MC-50	81	40	40	38 LTS
Fresh Water	13 3/8	New	MC-50	54	831	831	727 CTS
Coal							
Intermediate	9 5/8	New	MC-50	40	3,385	3,385	1,330 (イ)
Production	5 1/2	New	P-110	20	11,708	11,708	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100° less than TD
Liners			<u> </u>				Dm 11

Dm 4 12-28-13

TYPE	Size	Wellbore	Wall	Burst	Cement	Cement Yield
		<u>Diameter</u>	<u>Thickness</u>	<u>Pressure</u>	<u>Type</u>	(cu. ft./k)
Conductor	20	24	0.375	-	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	1	1.21
Coal						
Intermediate	9 5/8	12 3/8	0.395	3,590	1	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing			··			
Liners						

Packers

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

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.

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NAME To Compare of Environmental Protection

10-28-13 DWH

(3/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an approximate depth of 4248 then kick
off the horizontal leg into the Marcellus using a slick water frac.
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
distribution fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from
reshwater 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), referred to in the industry as a "slickwater" completion. Maximum
gelling agent, gel breaker, friction reducer, blocide, and scale inhibitor), reterred to in the industry as a stackmater competent. Maximum anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.
21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): No additional disturbance
22) Area to be disturbed for well pad only, less access road (acres): No additional disturbance
23) 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'.
Intermediate: Bow spring centralizers— One cent at the shoe that one spaces every sees. Production: One spaced every 1000' from KOP to Int csg shoe
24) 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 % Calcuim Carbonate. Acid solubility.
0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.
25) Proposed borehole conditioning procedures. <u>Surface</u> : 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.

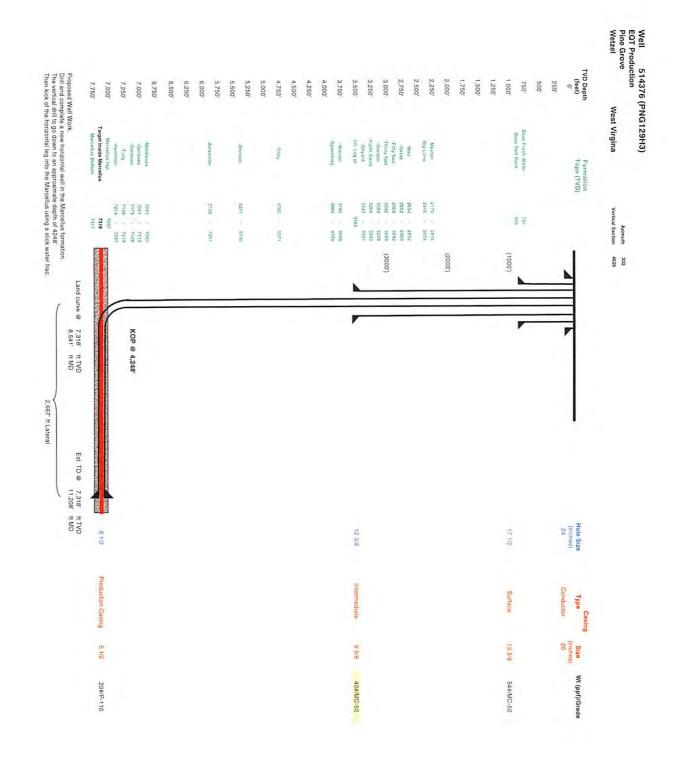
*Note: Attach additional sheets as needed.

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VVV Department of Environmental Protection

Well Schematic **EQT Production**

514376 (PNG129H3)

Well Name

Elevation KB: Target Prospect Azimuth Wetzel West Virgina Vertical Section - 0' 0' -4 7 Hole Size 24" - 20" Conductor at 40" Bit Size 17.5" - 500 500' — TOC @ Surface 731' Fresh Water Base 13 3/8", MC-50, 54.5# @ 831' ft MD 1,000' — 905' Base Red Rock Bit Size 12.375* **—** 1,000' - 1,500 1,500' -- 2,000 2.000' -2,179' Maxton 2,500' — 2,416' Big Lime - 2.500 2,654' Weir 2,852' -Gantz 3,000' — 2,969' -Fifty foot 3,042' -Thirty foot - 3,000 3,089 3,208' -Forth Sand 3,343 -Bayard TOC @ Surface 3,500' - 3,385' Int. csg pt 9 5/8", MC-50, 40# @ 3,385' ft MD - 3,500 Bit Size 8.5" 3,760' -Warren 4,000' — 3,886' -Speechley - 4,000 4,500' — - 4,500 4,760' -Riley 5,000' -- 5,000 5,371' -Benson 5,500' -- 5,500 5,739' -Alexander 6.000' -- 6,000 6,500' -- 6,500' 7,000' — 7,051' -Middlesex **—** 7,000° 7,091' -Genesee 4,248' ft MD 7,173' -Geneseo 7,198' -Tully 10 Deg DLS 7,500' — 7,214' -Hamilton 7,297' -Marcellus 8,541' ft MD - 7,500 7,318' ft TVD 7,348' Onondaga 5 1/2", P-110, 20# 11,208' ft MD 7,318' ft TVD 8,000' — - 8,000'

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Page	of
API No. 47 103	- 02968 0
Operator's Well No.	514376

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	PNG129	OP Code	9
Operator Name PNG129 OP Code Watershed (HUC10) Upper Run of South Fork of Fishing Creek Quadrangle Pine Grove Elevation 1328.0 County Wetzel District Grant 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? Yes: No: X If so please describe anticipated pit waste: Will a pit be used? 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 Feaces (at API Number 10.014, 8462, 4037 Feaces (at API Nu			
Elevation	1328.0 County	Wetzel Dist	rict Grant
Do you anticipate usin	g more than 5,000 bbls of w	ater to complete the proposed v	vell work? Yes x No
If so please de Will a syntheti	escribe anticipated pit waste: c liner be used in the pit?		_If so, what ml.?60
	 Land Application Underground Injecti Reuse (at API Nun Off Site Disposal 	on (UIC Permit Number)
	m be used ? Yes, The close		
If oil based	, what type? Synthetic, petro drilling medium? MILBA	Oleum, etc AR, Viscosifer, Alkalinity Control, Lime, Chloride Salts	s,Rate Filtration Control,
Drill cuttings disposal	Particle And the State of the S		
- Landfill or o	ffsite name/permit number?	See Attac	ned List
on August 1, 2005, by the C provisions of the permit are or regulation can lead to en I certify under penalt application form and all atta the information, I believe the submitting false information Company Official Sign Company Official (Typ	office of Oil and Gas of the West V enforceable by law. Violations of a forcement action. If y of law that I have personally example the end of the information is true, accurate a including the possibility of fine or ature	firginia Department of Environmental Pro any term or condition of the general perm mined and am familiar with the informati on my inquiry of those individuals immed , and complete. I am aware that there ar imprisonment.	otection. I understand that the nit and/or other applicable law on submitted on this liately responsible for obtaining
Subscribed and swarn	before me this	day of OCTOBER	
My commission expire	s 6/8		ary Public, State Of West Virginia NCHOLAS L. BUMGARDNER Rt. 1 Box 4 Liberty, WV 25124

OCT 242013

VVV Demonstrated Environmental Projection

47 1 0 3 0 2 9 6 8Operator's Well No. 514376

				
Proposed Revegetation Trea	atment: Acres Distur	bed no additional disturbance	Prevegetation pH _	6.4
Lime3	Tons/acr	re or to correct to pH	6.5	
Fertilize type				
Fertilizer Amount	1/3	_lbs/acre (500 lbs minimum)		
Mülch	2	Tons/acre		
		Seed Mixtures		
Tempo	orarv		Permanent	
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/a 15	cre
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
Annuarriyo				
Photocopied section of invol	lved 7.5' topographic	sheet.		
Plan Approved by:	V./			
Comments:				
	···			
Title: Dil + Gar I	repeated	Date:	17	
Field Reviewed? ()	Yes () No	

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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

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

BROAD STREET ENERGY LLC

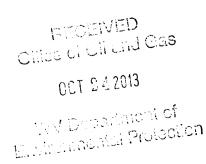
37 West Broad Street Suite 1100 Columbus, Ohio 43215 740-516-5381 Washington County/Belpre Twp. Permit # 8462

TRIAD ENERGY

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

KING EXCAVATING CO.

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



west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP-01588

API/ID Number:

047-103-02968

Operator

EQT Production Company

514376

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 mutiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interepreted 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.

APPROVED NOV 2 1 2013

Source Summary

WMP-01588

API Number:

047-103-02968

Operators

EQT Production Company

514376

Stream/River

Ohio River at Hannibal, OH Source

Wetzel

Richard Potts/Rich

Merryman

Start Date

End Date

Total Volume (gal)

Max. daily purchase (gal)

Intake Latitude: Intake Longitude:

11/1/2013

11/1/2014

4,600,000

39.655883

-80.86678

✓ Regulated Stream?

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

S. Fork of Fishing Creek @ Hastings Truck Pad

Wetzel

Dominion Transmission

Start Date

End Date

Total Volume (gal)

Max. daily purchase (gal)

Intake Latitude: Intake Longitude: 39.553

-80.669

11/1/2013

11/1/2014

4,600,000

3114500

MIDDLE ISLAND CREEK AT LITTLE, WV

Max. Pump rate (gpm):

Regulated Stream?

1,260

Min. Gauge Reading (cfs):

Ref. Gauge ID:

78.05

Min. Passby (cfs)

10.32

DEP Comments:

Source

S. Fork of Fishing Creek @ Jacksonburg Truck Pad

Wetzel

Ronald Anderson

Start Date

End Date

4,600,000

Total Volume (gal) Max. daily purchase (gal)

3114500

Intake Latitude: Intake Longitude:

11/1/2013

11/1/2014

39.52609

-80.6338

Regulated Stream?

Max. Pump rate (gpm):

1,260

Ref. Gauge ID: Min. Gauge Reading (cfs):

73.12

Min. Passby (cfs)

MIDDLE ISLAND CREEK AT LITTLE, WV

8.86

DEP Comments:

Source	N. Fork of Fishi	ing Creek @	Pine Grove Truck Pac	d	Wetzel	Owner: T	own of Pine Grove
Start Date 11/1/2013	End Date 11/1/2014		Total Volume (gal) 4,600,000	Max. daily p	ourchase (gal)	Intake Latitude: 39.571562	Intake Longitude: -80.677848
☐ Regulated	l Stream?		Ref. Gauge II	D: 31145 0	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	2,520	Min. Gauge Read	ling (cfs):	85.35	Min. Passby (c	fs) 6.22
	DEP Comme	nts:					
						•	
Source	N. Fork of Fish	ing Creek @	Edgell Property		Wetzel	Owner:	Cathy Edgell
Start Date 11/1/2013	End Date 11/1/2014		Total Volume (gal) 4,600,000	Max. daily p	ourchase (gal)	Intake Latitude: 39.58191	Intake Longitude: -80.622839
☐ Regulated	l Stream?		Ref. Gauge I	D: 31145 0	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	1,260	Min. Gauge Read	ling (cfs):	78.74	Min. Passby (c	fs) 5.76
	DEP Comme	nts:					
Source	N. Fork of Fishi	ing Creek @	Lydick Property		Wetzel	Owner:	Les Lydick
Start Date 11/1/2013	End Date 11/1/2014		Total Volume (gal) 4,600,000	Max. daily p	ourchase (gal)	Intake Latitude: 39.57795	Intake Longitude: -80.59221
☐ _{Regulated}	Stream?		Ref. Gauge II	D: 31145 (00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump		1,260	Min. Gauge Read		75.93	Min. Passby (cf	
·	DEP Commer	·	Q	J. ,		, (,

 Source N. Fork of Fishing Creek @ BIG176 Pad Wetzel Owner: John W. Kilcoyne Max. daily purchase (gal) Start Date End Date Total Volume (gal) Intake Latitude: Intake Longitude: 11/1/2013 11/1/2014 4,600,000 39.560283 -80.560763 Regulated Stream? Ref. Gauge ID: 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV Min. Gauge Reading (cfs): 73.12 Min. Passby (cfs) Max. Pump rate (gpm): 1,260 2.19 **DEP Comments:** N. Fork of Fishing Creek @ Big 57 Pad Source Wetzel Owner: **EQT Corporation** Max. daily purchase (gal) Start Date End Date Total Volume (gal) Intake Latitude: Intake Longitude: 11/1/2013 11/1/2014 4,600,000 39.55316 -80.53064 Regulated Stream? Ref. Gauge ID: 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV Min. Gauge Reading (cfs): Min. Passby (cfs) Max. Pump rate (gpm): 1.260 70.31 1.71 **DEP Comments:** Source Summary WMP-01588 API Number: 047-103-02968 Operator: **EQT Production Company** 514376 **Purchased Water** Source **HG Energy Water Supply Well** Wetzel Owner: **HG Energy LLC** Max. daily purchase (gal) Start Date End Date Total Volume (gal) Intake Latitude: Intake Longitude: 11/1/2013 11/1/2014 4,600,000 1,050,000 39.61861 -80.87972 ✓ Regulated Stream? Ohio River Min. Flow Ref. Gauge ID: Ohio River Station: Willow Island Lock & Dam 9999999 Max. Pump rate (gpm): Min. Gauge Reading (cfs): 6,468.00 Min. Passby (cfs) **DEP Comments:**

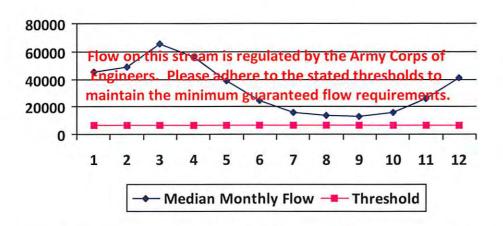
WMP-01588 API/ID Number: 047-103-02968 **EQT Production Company** Operator: 514376 Source Latitude: 39.61861 HG Energy Water Supply Well 30075 Source ID: Source Name HG Energy LLC Source Longitude: -80.87972 5030201 HUC-8 Code: Anticipated withdrawal start date: 11/1/2013 25000 Wetzel Drainage Area (sq. mi.): County: 11/1/2014 Anticipated withdrawal end date: **Endangered Species?** ☐ Mussel Stream? 4,600,000 Total Volume from Source (gal): Trout Stream? ☐ Tier 3? Max. Pump rate (gpm): Ohio River Min. Flow Regulated Stream? Max. Simultaneous Trucks: Proximate PSD? Max. Truck pump rate (gpm) Gauged Stream? Ohio River Station: Willow Island Lock & Dam 9999999 Reference Gaug

Month	Median monthly flow (cfs)	Threshold (+ pump	<u>Available</u> water (cfs)
1	45,700.00	-	-
2	49,200.00	*	15
3	65,700.00	-	1.4
4	56,100.00	-	3
5	38,700.00	*	4
6	24,300.00	*	1.2
7	16,000.00		-
8	13,400.00	¥1	0.65
9	12,800.00		
10	15,500.00	6	9
11	26,300.00	-	
12	41,300.00	-	1.4

Water Availability Profile

25,000.00

Drainage Area (sq. mi.)



Water Availability Assessment of Location

Gauge Threshold (cfs):

6468

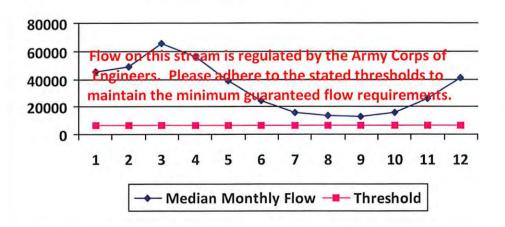
Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	0.00
Pump rate (cfs):	
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00

"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.

WMP-01588	API/ID Number:	047-103-02968	Operator:	EQT Producti	on Compa	iny	
	51	.4376					
Source ID: 30058 Source Name Ohio River at Hannibal, OH Richard Potts/Rich Merryman		an	Source Latitude: 39.655883				
HUC-8 Code: 5030 Drainage Area (sq. mi.):	0201	Wetzel An	ticipated withdraw	al start date:	11/1/20 11/1/20		
☐ Endangered Species? ☐ Mussel Stream? ☐ Trout Stream? ☐ Tier 3?			Anticipated withdrawal end date: Total Volume from Source (gal):			4,600,000	
✓ Regulated Stream? Ohio✓ Proximate PSD? New✓ Gauged Stream?		Max. Pump rate (gpm): 1,50 Max. Simultaneous Trucks: Max. Truck pump rate (gpm)					
Reference Gaug 9999 Drainage Area (sq. mi.)	999 Ohio River Station: \ 25,000.00	Willow Island Lock &		hreshold (cfs):	646	8	

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	45,700.00		
2	49,200.00	4	9-
3	65,700.00	-	
4	56,100.00		1.5
5	38,700.00	+	-
6	24,300.00	-	1.5
7	16,000.00	*	1.5
8	13,400.00	-	
9	12,800.00	-	100
10	15,500.00	4	
11	26,300.00	*	1.5
12	41,300.00		

Water Availability Profile



Water Availability Assessment of Location

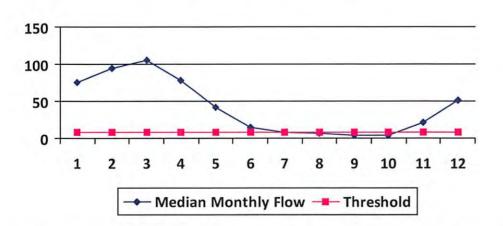
Base Threshold (cfs):	0.00
Upstream Demand (cfs):	
Downstream Demand (cfs):	0.00
Pump rate (cfs):	3.34
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00

[&]quot;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.

WMP-01588	API/ID Number:	047-103-02968	Operator: EQT Product	tion Company
	5	14376		
ource ID: 30059 Source Name	S. Fork of Fishing Creek @	Hastings Truck Pad		
HUC-8 Code: 5030 Drainage Area (sq. mi.): ☐ Endangered Species? ✓ Mu	Dominion Transmission 201 70.02 County: assel Stream?	Wetzel	Source Longitude: -80 Anticipated withdrawal start date: Anticipated withdrawal end date:	11/1/2013 11/1/2014
	r 3?		Total Volume from Source (gal): Max. Pump rate (gpm): Max. Simultaneou Max. Truck pump ra	- 11 31-11-1
Reference Gaug 31145 Drainage Area (sq. mi.)	MIDDLE ISLAND CR	REEK AT LITTLE, WV	Gauge Threshold (cfs):	45
Median Threshol Month monthly flow (+ pump	Augilabla			

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	75.09	20.87	54.35
2	94.45	20.87	73.72
3	105.69	20.87	84.95
4	78.48	20.87	57.75
5	41.40	20.87	20.66
6	14.46	20.87	-6.28
7	8.18	20.87	-12.56
8	6.74	20.87	-14.00
9	3.45	20.87	-17.29
10	4.33	20.87	-16.40
11	21.17	20.87	0.43
12	51.72	20.87	30.99

Water Availability Profile



Water Availability Assessment of Location

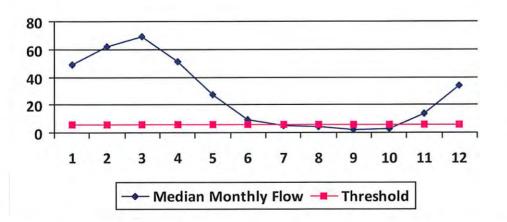
Min. Gauge Reading (cfs):	78.05
Ungauged Stream Safety (cfs):	1.72
Headwater Safety (cfs):	1.72
Pump rate (cfs):	2.81
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	7.74
Base Threshold (cfs):	6.88

[&]quot;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.

WMP-01588	API/ID Number:	047-103-02968	Operator: EQT Product	ion Company
	51	4376		
ource ID: 30060 Source Name	S. Fork of Fishing Creek @ Ja Ronald Anderson	acksonburg Truck Pad	Source Latitude: 39.3 Source Longitude: -80	
☐ Trout Stream? ☐ Tie		Wetzel Ant	cipated withdrawal start date: cipated withdrawal end date: tal Volume from Source (gal): Max. Pump rate (gpm):	11/1/2013 11/1/2014 4,600,000
☐ Regulated Stream?☐ Proximate PSD?☐ Gauged Stream?			Max. Simultaneou Max. Truck pump ra	s Trucks: 0
Reference Gaug 31145 Drainage Area (sq. mi.)	00 MIDDLE ISLAND CRE 458.00	EEK AT LITTLE, WV	Gauge Threshold (cfs):	45

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)	
1	49.03	12.36	37.12	
2	61.67	12.36	49.76	
3	69.01	12.36	57.10	
4	51.25	12.36	39.33	
5	27.03	12.36	15.12	
6	9.44	12.36	-2.47	
7	5.34	12.36	-6.57	
8	4.40	12.36	-7.51	
9	2.25	12.36	-9.66	
10	2.83	12.36	-9.08	
11	13.82	12.36	1.91	
12	33.77	12.36	21.86	

Water Availability Profile



Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	73.12 8.86
Ungauged Stream Safety (cfs):	1.12
Headwater Safety (cfs):	1.12
Pump rate (cfs):	2.81
Downstream Demand (cfs):	2.12
Upstream Demand (cfs):	2.81
Base Threshold (cfs):	4.49

"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.

WMP-01588 API/ID Number: 047-103-02968 Operator: EQT Production Company

514376

Wetzel

Source ID: 30061 Source Name N. Fork of Fishing Creek @ Pine Grove Truck Pad Source Latitude: 39.571562

Town of Pine Grove

Source Longitude: -80.677848

HUC-8 Code: 5030201

Drainage Area (sq. mi.): 42.17 County:

Anticipated withdrawal start date:
Anticipated withdrawal end date:

11/1/2013 11/1/2014

☐ Endangered Species? ✓ Mussel Stream?

Fotal Valuma from Source (gall): 4 600 000

Trout Stream?

Total Volume from Source (gal):

4,600,000

Regulated Stream?

Max. Pump rate (gpm): 2,520

Max. Simultaneous Trucks: 0

✓ Proximate PSD?☐ Gauged Stream?

Pine Grove

Max. Truck pump rate (gpm)

Reference Gaug

3114500

☐ Tier 3?

MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.)

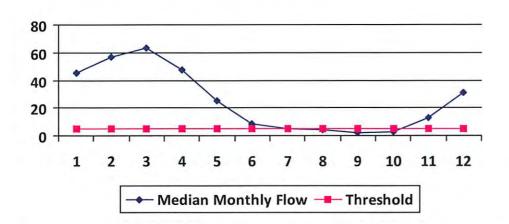
458.00

Gauge Threshold (cfs):

45

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	45.22	24.07	21.25
2	56.89	24.07	32.91
3	63.65	24.07	39.68
4	47.27	24.07	23.29
5	24.93	24.07	0.96
6	8.71	24.07	-15.27
7	4.93	24.07	-19.05
8	4.06	24.07	-19.92
9	2.08	24.07	-21.90
10	2.61	24.07	-21.37
11	12.75	24.07	-11.23
12	31.15	24.07	7.17

Water Availability Profile



Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	85.35 6.22
Ungauged Stream Safety (cfs):	1.04
Headwater Safety (cfs):	1.04
Pump rate (cfs):	5.61
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	12.24
Base Threshold (cfs):	4.14

"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.

WMP-01588 API/ID Number: 047-103-02968 Operator: **EQT Production Company** 514376 Source ID: 30062 N. Fork of Fishing Creek @ Edgell Property Source Latitude: 39.58191 Source Name Source Longitude: -80.622839 Cathy Edgell 5030201 HUC-8 Code: Anticipated withdrawal start date: 11/1/2013 32.23 Wetzel Drainage Area (sq. mi.): County: Anticipated withdrawal end date: 11/1/2014 **Endangered Species?** ✓ Mussel Stream? Total Volume from Source (gal): 4,600,000 Trout Stream? ☐ Tier 3?

Regulated Stream?

Proximate PSD?

Gauged Stream?

Reference Gaug

3114500

MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.)

458.00

Gauge Threshold (cfs):

Max. Simultaneous Trucks:

Max. Truck pump rate (gpm)

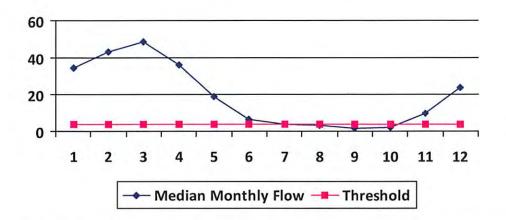
Max. Pump rate (gpm):

1,260

45

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	34.56	15.99	18.59
2	43.48	15.99	27.51
3	48.65	15.99	32.68
4	36.13	15.99	20.16
5	19.06	15.99	3.09
6	6.65	15.99	-9.32
7	3.77	15.99	-12.20
8	3.10	15.99	-12.87
9	1.59	15.99	-14.38
10	2.00	15.99	-13.98
11	9.74	15.99	-6.23
12	23.81	15.99	7.84

Water Availability Profile



Water Availability Assessment of Location

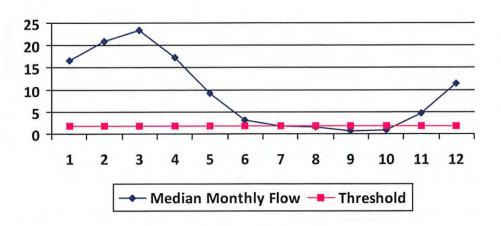
Dage Through and Joseph	3.17
Base Threshold (cfs):	
Upstream Demand (cfs):	8.43
Downstream Demand (cfs):	1.00
Pump rate (cfs):	2.81
Headwater Safety (cfs):	0.79
Ungauged Stream Safety (cfs):	0.79
Min. Gauge Reading (cfs):	78.74
Passby at Location (cfs):	5.75

"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.

WMP-015	88	API/ID Number:	047-103-02968	8 Operator:	EQT Product	ion Company
		51	4376			
Source ID: 30063 Source	e Name N. Fork	of Fishing Creek @ I	ydick Property	Sourc	e Latitude: 39.5	57795
	Les Lyd	ick		Source	Longitude: -80.	.59221
HUC-8 Code:	5030201			Anticipated withdraw	al start date:	11/1/2013
Drainage Area (sq.	. mi.): 15.46	County:	Wetzel	Anticipated withdray	val end date:	11/1/2014
☐ Endangered Species? ☐ Trout Stream?	✓ Mussel Stre	eam?		Total Volume from	Source (gal):	4,600,000
☐ Regulated Stream?				Max. Pum	p rate (gpm):	1,260
Proximate PSD?					Max. Simultaneou	s Trucks: 0
☐ Gauged Stream?					Max. Truck pump ra	te (gpm) 0
Reference Gaug	3114500	MIDDLE ISLAND CRI	EEK AT LITTLE, WY	V		
Drainage Area (sq. m	ni.) 458.0	00		Gauge T	hreshold (cfs):	45

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)	
1	16.58	10.71	6.04	
2	20.86	10.71	10.32	
3	23.34	10.71	12.80	
4	17.33	10.71	6.79	
5	9.14	10.71	-1.40	
6	3.19	10.71	-7.34	
7	1.81	10.71	-8.73	
8	1.49	10.71	-9.05	
9	0.76	10.71	-9.78	
10	0.96	10.71	-9.58	
11	4.67	10.71	-5.86	
12	11.42	10.71	0.88	

Water Availability Profile



Water	Availability	Assessment of	f Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	75.93 3.28
Ungauged Stream Safety (cfs):	0.38
Headwater Safety (cfs):	0.38
Pump rate (cfs):	2.81
Downstream Demand (cfs):	1.00
Upstream Demand (cfs):	5.62
Base Threshold (cfs):	1.52

[&]quot;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.

WMP-01588

API/ID Number:

047-103-02968

EQT Production Company

514376

Source ID: 30064

Source Name

N. Fork of Fishing Creek @ BIG176 Pad

Source Latitude: 39.560283

Source Longitude: -80.560763

HUC-8 Code:

5030201

Tier 3?

Drainage Area (sq. mi.):

8.09

County: Wetzel Anticipated withdrawal start date:

11/1/2013

John W. Kilcoyne

Anticipated withdrawal end date:

11/1/2014

Endangered Species? Trout Stream?

✓ Mussel Stream?

Total Volume from Source (gal):

4,600,000

Regulated Stream?

Max. Pump rate (gpm):

1,260

Gauged Stream?

Proximate PSD?

Max. Simultaneous Trucks:

Max. Truck pump rate (gpm)

0

Reference Gaug

3114500

MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.)

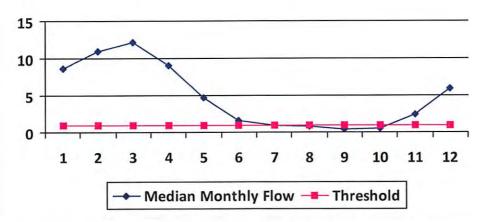
458.00

Gauge Threshold (cfs):

45

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	8.68	6.81	2.21
2	10.91	6.81	4.45
3	12.21	6.81	5.75
4	9.07	6.81	2.60
5	4.78	6.81	-1.68
6	1.67	6.81	-4.79
7	0.95	6.81	-5.52
8	0.78	6.81	-5.69
9	0.40	6.81	-6.07
10	0.50	6.81	-5.96
11	2.45	6.81	-4.02
12	5.98	6.81	-0.49

Water Availability Profile



Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	73.12
Ungauged Stream Safety (cfs):	0.20
Headwater Safety (cfs):	0.20
Pump rate (cfs):	2.81
Downstream Demand (cfs):	1.00
Upstream Demand (cfs):	2.81
Base Threshold (cfs):	0.79

[&]quot;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.

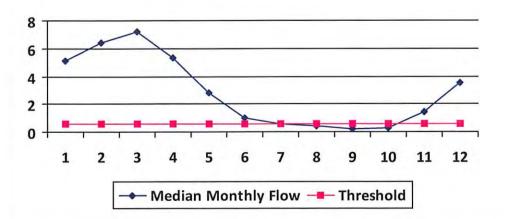
WMP-01588 API/ID Number: 047-103-02968 **EQT Production Company** 514376 Source ID: 30065 N. Fork of Fishing Creek @ Big 57 Pad Source Name Source Latitude: 39.55316 **EQT** Corporation Source Longitude: -80.53064 HUC-8 Code: 5030201 Anticipated withdrawal start date: 11/1/2013 Drainage Area (sq. mi.): Wetzel County: Anticipated withdrawal end date: 11/1/2014 ✓ Mussel Stream? **Endangered Species?** Total Volume from Source (gal): 4,600,000 Trout Stream? ☐ Tier 3? Max. Pump rate (gpm): 1,260 Regulated Stream? Max. Simultaneous Trucks: Proximate PSD? Max. Truck pump rate (gpm) Gauged Stream? Reference Gaug 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV

<u>/lonth</u>	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)	
1	5.12	3.51	1.62	
2	6.43	3.51	2.94	
3	7.20	3.51	3.71	
4	5.35	3.51	1.85	
5	2.82	3.51	-0.67	
6	0.98	3.51	-2.51	
7	0.56	3.51	-2.93	
8	0.46	3.51	-3.03	
9	0.24	3.51	-3.26	
10	0.30	3.51	-3.20	
11	1.44	3.51	-2.05	
12	3.52	3.51	0.03	

Water Availability Profile

458.00

Drainage Area (sq. mi.)



Water Availability Assessment of Location

Gauge Threshold (cfs):

45

Min. Gauge Reading (cfs): Passby at Location (cfs):	70.31
Ungauged Stream Safety (cfs):	0.12
Headwater Safety (cfs):	0.12
Pump rate (cfs):	2.81
Downstream Demand (cfs):	1.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	0.47

"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



Water Management Plan: Secondary Water Sources



WMP-01588

API/ID Number

047-103-02968

Operator:

EQT Production Company

514376

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

Source ID: 30066 Source Name Groundwater Well TW#1

Source start date:

11/1/2013

Source end date:

11/1/2014

Source Lat:

39.56059

Source Long:

-80.56027

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

4,600,000

DEP Comments:

WMP-01588 API/ID Number 047-103-02968 Operator: EQT Production Company

514376

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: 30067 Source Name Groundwater Well TW#5 Source start date: 11/1/2013

Source end date: 11/1/2014

Source Lat: 39.553434 Source Long: -80.528871 County Wetzel

Max. Daily Purchase (gal) Total Volume from Source (gal): 4,600,000

DEP Comments:

514376

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.

Multi-site impoundment

Source ID: 30076 Source Name YOHO Centralized Freshwater Impoundment Source start date: 11/1/2013

Source end date: 11/1/2014

Source Lat: 39.56092 Source Long: -80.61432 County Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal): 4,600,000

DEP Comments: 103-FWC-00001

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.

Source ID: 30077 Source Name Carlin Centralized Freshwater Impoundment Source start date: 11/1/2013

Source end date: 11/1/2014

Source Lat: 39.51168 Source Long: -80.598605 County Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal): 4,600,000

DEP Comments: 103-FWC-00002

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-1321

Reference: WMP-1068

514376

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: 30078 Source Name BIG176 Centralized Freshwater Impoundment

Source start date:

Source end date:

11/1/2013 11/1/2014

Source Lat:

39.561403 Source Long: -80.561554

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

4,600,000

DEP Comments:

103-FWC-00003

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-1322

Source ID: 30079 Source Name

Sycoc Centralized Freshwater Impoundment

Source start date:

11/1/2013

Source end date:

11/1/2014

Source Lat:

39.56436

Source Long:

-80.625644

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

4,600,000

DEP Comments:

103-FWC-00004

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-1222

514376

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: 30080 Source Name Mobiley Centralized Freshwater Impoundment Source start date: 11/1/2013

Source end date: 11/1/2014

Source Lat: 39.553653 Source Long: -80.52971 County Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal): 4,600,000

DEP Comments: 103-FWC-00006

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-1534

Source ID: 30081 Source Name Richwood Centralized Freshwater Impoundment Source start date: 11/1/2013

Source end date: 11/1/2014

Source Lat: 39.551137 Source Long: -80.605342 County Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal): 4,600,000

DEP Comments: 103-FWC-00007

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-1535

WMP-01588 API/ID Number 047-103-02968 Operator: EQT Production Company

514376

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.

Recycled Frac Water

Source ID: 30082 Source Name Various Source start date: 11/1/2013

Source end date: 11/1/2014

Source Lat: Source Long: County

Max. Daily Purchase (gal)

Total Volume from Source (gal): 4,600,000

DEP Comments:

