

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 30, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706421, issued to ANTERO RESOURCES CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: HONEY UNIT 2H

Farm Name: DUFFLEMEYER, MICHAEL B., . F

API Well Number: 47-1706421

Permit Type: Horizontal 6A Well

Date Issued: 12/30/2013

Promoting a healthy environment.

API Number: 17-06421

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

- 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.
- 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.
- 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.
- 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.

WW-6B (9/13)

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

1) Well Opera	tor: Antero I	Resources Corporatio	n 494488557	017-Doddridge	New Milton	New Milton
			Operator ID	County	District	Quadrangle
2) Operator's	Well Number	Honey Unit 2H	Well P	ad Name: Snake	Run Pad	
3) Farm Name	Surface Ow	ner: Michael Duffleme	eyer et al Public Ro	oad Access: CR	25	
4) Elevation, c	urrent groun	d: ~1113' I	Elevation, propose	d post-constructi	on: 1081'	
5) Well Type	(a) Gas Other	Oil _	Un	derground Storag	ge	
	(b)If Gas	Shallow	Deep			Or N
	,	Horizontal =				Den 12:30
Existing Pac	i: Yes or No	No		99.50		12:00
		ion(s), Depth(s), Anti D, Anticipated Thicknes	•			
) Proposed To	tal Vertical	Depth: 7400' TVD				
) Formation a		-	Shale			
0) Proposed T	otal Measure	ed Depth: 14,400' M	ID .			
1) Proposed H	Iorizontal Le	g Length: 6467'		203, 00,000,000		
2) Approxima	te Fresh War	ter Strata Depths:	51', 156'			
3) Method to	Determine F	resh Water Depths:	Offset well records. D	epths have been ad	usted accord	ing to surface elevations
		Depths: 1194'				
5) Approxima	te Coal Sean	n Depths: 201', 435',	746, 1080'			14
6) Approxima	te Depth to I	Possible Void (coal m	nine, karst, other):	None anticipated		
7) Does Propo	sed well loc	ation contain coal sea	ims			
irectly overlyi	ng or adjace	nt to an active mine?	Yes	No No	1	
(a) If Yes, pro	vide Mine I	nfo: Name:				
		Depth:				
		Seam:				
		Owner:				
DECE	N/ED					

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WV Department of Environmental Protection WW-6B (9/13)

18)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	New	H-40	94#	40'	40'	CTS,38 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/ 48#	320'	320'	CTS, 445 Cu. Ft
Coal	9-5/8"	New	J-55	36#	2480'	2480'	CTS,1010 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	14400'	14400'	3559 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

TYPE Cement Yield Wellbore Wall **Burst Pressure** Cement Type Size Diameter **Thickness** (cu. ft./k) Conductor 20" 24" 0.438" 1530 Class A 1.18 Fresh Water 2730/1730 13-3/8" 17-1/2" 0.38"/0.33" Class A 1.18 Coal 9-5/8" 12-1/4" 3520 Class A 0.352" 1.18 Intermediate Production 5-1/2" 8-3/4" & 8-1/2" 0.361" 12630 Lead-H/POZ & Tail - H H/POZ-1.44 & H-1.8 Tubing 2-3/8" 4.778" 0.19" 11200 Liners

PACKERS

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

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Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Sha	ale.
20) Describe fracturing/stimulating methods in detail, including anticipate	ed max pressure and max rate:
Antero plans to pump Slickwater into the Marcellus Shale formation in order to rea be comprised of approximately 99 percent water and sand, with less than 1 percei the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well.	nt special-purpose additives as shown in
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (a	icres): 23.32 acres
	icres): 23.32 acres
	icies).

Conductor: no additives, Class A cement.

Surface: Class A cement with 2% calcium and 1/4 lb flake, 5 gallons of clay treat

Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement-50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51 Production: Tall cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep trip to hate of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water. 80Y 22

*Note: Attach additional sheets as needed.

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name	Antero Resources Corporation		OP Code 494488557
Watershed (HUC I	(i) Meathouse Fork	Quadrang	gle New Milton
Elevation 1081	County_Do	oddridge	District New Milton
Do you anticipate o	yes No V		
	se describe anticipated pit waste:		of reviews, I laids will be stored in lawls. Cultings will be be hed and number off stic.)
	thetic liner be used in the pit? Yes	No V	If so, what ml.? N/A
Proposed	Disposal Method For Treated Pit W	astes:	
-	Land Application Underground Injection (U)	IC Permit Number	1
-		and the same of th	in applicable. API# will be provided on Form WR-S4
	Off Site Disposal (Supply f	form WW-9 for disposal	l location) (Meadowfill Landfill Permit #SWF-1032-98)
Vill closed loop sy	stem be used? If so, describe: Yes		
rilling medium ar	nticipated for this well (vertical and	horizontal)? Air, freshy	water, oil based, etc. Duckson Front Production - Water Based Mus
-If oil base	ed, what type? Synthetic, petroleum	a, etc. N/A	
dditives to be use	d in drilling medium? Please See At	ttachment	
			ared in tanks, removed offsite and taken to landfill.
	pit and plan to solidify what medium		
	or offsite name/permit number? Mea		
-Landilli (or offsite name/permit number?	LLOWIN CANDIN (F CHINC HOTE	11-10-22-00)
on August 1, 2005, provisions of the p aw or regulation of I certify u	by the Office of Oil and Gas of the ermit are enforceable by law. Viol an lead to enforcement action, under penalty of law that I have penalty attachments thereto and the	West Virginia Departm lations of any term or c ersonally examined and	the GENERAL WATER POLLUTION PERMIT issued the property of Environmental Protection. I understand that the condition of the general permit and/or other applicable in am familiar with the information submitted on this irry of those individuals immediately responsible for and complete. I am aware that there are manificant exprisonment.
Company Official	(Typed Name) Gerard G. Alberts		22
Company Official	Title Environmental & Regulatory N	fanager	MO. MO.
			Mare of Contraction
Subscribed and swo	Britheller	lay of NOV	. 2 3 LISA SETTINELLI Notary Public State of Colorado Notary Public Notary ID 20124072365 My Commission Expires Nov 9, 201

posed Revegetation Treatment: Acres Disturbed 23.32	Prevegetation pH	
Lime 2-3 Tons/acre or to correct to pH		
Fertilizer type Hay or straw or Wood Fiber (will be used w	where needed)	
Fertilizer amount 500	os/acre	
Mulch 2-3 Tons/s	acre	
ow Access Road (4.79) + New Staging Area (1.66) + New Well Pad (4.35) + New W	Ster Containment Pad (4.10) + New Excess/Tepsoil N	faterial Stockpiles (8.42) = 23.32
Seed	d Mixtures	
Temporary	Perman	ent
Seed Type lbs/acre	Seed Type	lbs/acre
nnual Ryegrass 40	Crownvetch	10-15
es attached Table 3 for additional seed type (Snate Run Pad Design Page 19)	*See attached Table 4s for additional seed type	(Snake Run Pad Design Page 19
r type of grass seed requested by surface owner	*or type of grass seed reques	sted by surface owne
or type of grass seed requested by surface owner OTE: No Fescue or Timothy Grass shall be ach: ach: awing(s) of road, location, pit and proposed area for land applyided) otocopied section of involved 7.5' topographic sheet.	pe used.	
OTE: No Fescue or Timothy Grass shall be ach: awing(s) of road, location, pit and proposed area for land approvided) attocopied section of involved 7.5' topographic sheet.	pe used.	
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4.

Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

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

PRODUCTION INTERVAL

- 1. Alpha 1655
 - Salt Inhibitor
- 2. Mil-Carb
 - Calcium Carbonate
- Cottonseed Hulls
 - Cellulose-Cottonseed Pellets LCM
- 4. Mil-Seal
 - Vegetable, Cotton & Cellulose-Based Fiber Blend LCM
- 5. Clay-Trol
 - Amine Acid Complex Shale Stabilizer
- 6. Xan-Plex
 - Viscosifier For Water Based Muds
- 7. Mil-Pac (All Grades)
 - Sodium Carboxymethylcellulose Filtration Control Agent
- 8. New Drill
 - Anionic Polyacrylamide Copolymer Emulsion Shale Stabilizer
- 9. Caustic Soda
 - Sodium Hydroxide Alkalinity Control
- 10. Mil-Lime
 - Calcium Hydroxide Lime
- 11. LD-9
- Polyether Polyol Drilling Fluid Defoamer
- 12. Mil Mica
 - Hydro-Biotite Mica LCM

Ollice at oil said constitution of a supergraphic

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon 4701706421

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt - Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant

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Well Site Safety Plan Antero Resources

Well Name: Dufflemeyer Unit 1H, Dufflemeyer Unit 2H,

Honey Unit 1H, Honey Unit 2H, Asena Unit 1H,

Asena Unit 2H

Pad Location: Snake Run Pad

Doddridge County/ New Milton District

GPS Coordinates: Lat 39°12'17.52"/Long -80°39'3.68" (NAD83)

Driving Directions:

From New Milton:

Head SW on CO Route 25/ Meathouse Fork Rd. for 3.8 miles until past the intersection with CO Route 25/8 Snake Run Branch. Access Road will be on left.

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Water Management Plan: Primary Water Sources



WMP-01682

API/ID Number:

047-017-06421

Operator:

Antero Resources

Honey Unit 2H

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.

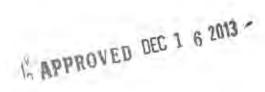
Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which 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.



Source Summary

WMP-01682

API Number:

047-017-06421

Operator

Antero Resources

Honey Unit 2H

Stream/River

e Source Ohio River @ Ben's Run Withdrawal Site

Tyler

Owner:

Ben's Run Land Company

Limited Partnership

Start Date End Date

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

Intake Latitude: Intake Longitude:

6/14/2014 6/14/2015

7,020,000

-81.110781

Regulated Stream? Ohio River Min. Flow Ref. Gauge ID: 9999999

Ohio River Station: Willow Island Lock & Dam

Max. Pump rate (gpm):

3,360

Min. Gauge Reading (cfs): 6,468.00

Min, Passby (cfs)

39.46593

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

West Fork River @ JCP Withdrawal

Harrison

Owner:

James & Brenda Raines

Start Date

End Date

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

39.320913

Intake Latitude: Intake Longitude: -80.337572

6/14/2014

6/14/2015

7,020,000

3061000

WEST FORK RIVER AT ENTERPRISE, WV

Max. Pump rate (gpm):

2,000

Regulated Stream? Stonewall Jackson Dam Ref. Gauge ID:

Min. Gauge Reading (cfs):

175.00

Min. Passby (cfs)

146.25

DEP Comments:

s Source

West Fork River @ McDonald Withdrawal

Harrison

Owner:

David Shrieves

Start Date 6/14/2014 End Date 6/14/2015

7,020,000

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

Intake Latitude: Intake Longitude:

-80.45069

Regulated Stream? Stonewall Jackson Dam Ref. Gauge ID:

3061000

WEST FORK RIVER AT ENTERPRISE, WV

39.16761

Max. Pump rate (gpm):

3,000

Min. Gauge Reading (cfs):

175.00

Min. Passby (cfs)

106.30

- 355/45	3-73113-5013-101		4.4.6.0				David Sillieres
Start Date 6/14/2014			Total Volume (gal) 7,020,000	Max. daily p	ourchase (gal)	intake Latitude: 39,16422	Intake Longitude: -80.45173
☑ Regulated	Stream? Ston	ewall Jacks	on Dam Ref. Gauge	ID: 30610	00	WEST FORK RIVER AT ENTE	ERPRISE, WV
Max. Pump	rate (gpm):	2,000	Min. Gauge Rea	ding (cfs):	175.00	Min. Passby (c	fs) 106.30
	DEP Comme	nts:					
© Source	Middle Island	Creek @ M	ees Withdrawal Site		Pleasants	Owner.	Sarah E. Mees
Start Date	End Date		Total Volume (gal)	Max. daily p	ourchase (gal)	Intake Latitude:	Intake Longitude:
6/14/2014	6/14/2015		7,020,000			39.43113	-81.079567
Regulated	Stream?		Ref. Gauge	ID: 31145	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	3,360	Min. Gauge Rea	ding (cfs):	52.59	Min. Passby (d	(s) 47.63
	DEP Comme	nts:					
© Source	Middle Island	Creek @ Da	wson Withdrawal		Tyler	Owner: G	ary D. and Rella A. Dawson
Start Date	End Date		Total Volume (gal)	Max. daily	ourchase (gal)	Intake Latitude;	Intake Longitude:
6/14/2014	6/14/2015		7,020,000			39.379292	-80.867803
Regulated	Stream?		Ref. Gauge	ID: 31145	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	3,000	Min. Gauge Rea	ding (cfs):	76.03	Min. Passby (cl	fs) 28.83

Harrison Owner:

David Shrieves

DEP Comments:

o Source

West Fork River @ GAL Withdrawal

e Source	McElroy Creek	@ Forest \	Withdrawal		Tyler	Owner: Fo	orest C. & Brenda L. Moore
Start Date	End Date		Total Volume (gal)	Max. daily p	ourchase (gal)	Intake Latitude:	Intake Longitude:
6/14/2014	6/14/2015		7,020,000			39.39675	-80.738197
Regulate	d Stream?		Ref. Gauge	D: 31145	00	MIDDLE ISLAND CREEK A	T LITTLE, WV
Max. Pump	rate (gpm):	1,000	Min. Gauge Read	ling (cfs):	74.77	Min. Passby (d	fs) 13.10
	DEP Comme	nts:					
& Source	Meathouse Fo	rk @ Gagne	on Withdrawal		Doddridge	Owner: Ger	orge L. Gagnon and Susan C. Gagnon
Start Date 6/14/2014			Total Volume (gal) 7,020,000	Max. daily s	ourchase (gal)	Intake Latitude: 39.26054	Intake Longitude: -80.720998
Regulate	d Stream?		Ref. Gauge I	D; 311450	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	1,000	Min. Gauge Read	ling (cfs):	71.96	Min. Passby (d	rfs) 11.74
	DEP Commer	nts:					
o Source	Meathouse Fo	rk @ White	ehair Withdrawal		Doddridge	Owner:	Elton Whitehair
Start Date 6/14/2014			Total Volume (gal) 7,020,000	Max. daily p	ourchese (ga!)	Intake Latitude: 39.211317	Intake Longitude: -80.679592
☐ Regulate	d Stream?		Ref. Gauge I	D: 311450	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	1,000	Min. Gauge Read	ling (cfs):	69.73	Min. Passby (c	(s) 7.28
	DEP Commer	a have					

w Source	Tom's Fork @	Erwin Withdrawal			Doddridge	Owner: John F. E	rwin and Sandra E. Erwin
Start Date 6/14/2014			Volume (gal) 020,000	Max. daily p	ourchase (gal)	Intake Latitude: 39.174306	Intake Longitude: -80.702992
Regulated	d Stream?		Ref. Gauge II	D: 31145	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	1,000 Min	n. Gauge Read	ling (cfs):	69.73	Min. Passby (c	fs) 0.59
	DEP Comme	nts:					
e Source	Arnold Creek (Davis Withdrawa	al		Doddridge	Owner:	Jonathon Davis
Start Date			Volume (gal)	Max. daily p	ourchase (gal)	Intake Latitude:	Control of the second of the s
6/14/2014	6/14/2015	7,0	020,000			39.302006	-80.824561
Regulated	d Stream?		Ref. Gauge II	311450	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	1,000 Min	n. Gauge Read	ling (cfs);	69.73	Min. Passby (c	(s) 3.08
	DEP Comme	nts:					
a Source	Buckeye Creek	@ Powell Withdra	awal		Doddridge	Owner:	Dennis Powell
Start Date			Volume (gal)	Max. daily p	ourchase (gal)	Intake Latitude:	
6/14/2014	6/14/2015	7,0	020,000			39.277142	-80.690386
Regulated	d Stream?		Ref. Gauge II	D: 311450	00	MIDDLE ISLAND CREEK AT	LITTLE, WV
Max. Pump	rate (gpm):	1,000 Min	. Gauge Read	ing (cfs):	69.73	Min. Passby (c	fs) 4.59

s Source South Fork of Hughes River @ Knight Withdrawal Ritchie Owner: Tracy C. Knight & Stephanie C. Knight Start Date End Date Total Volume (gal) Max. daily purchase (gal) Intake Latitude: Intake Longitude: 6/14/2015 6/14/2014 7,020,000 39.198369 -80.870969 Regulated Stream? **SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WI** Ref. Gauge ID: 3155220 Max. Pump rate (gpm): 3,000 Min. Gauge Reading (cfs): 39.80 Min. Passby (cfs) 1.95 **DEP Comments:** North Fork of Hughes River @ Davis Withdrawal Ritchie Lewis P. Davis and Norma Source Owner: J. Davis Start Date End Date Total Volume (gal) Max. daily purchase (gal) Intake Latitude: Intake Longitude; 6/14/2014 6/14/2015 7,020,000 39.322363 -80.936771 Regulated Stream? OUTH FORK HUGHES RIVER BELOW MACFARLAN, WI Ref. Gauge ID: 3155220 Max. Pump rate (gpm): Min. Gauge Reading (cfs): Min. Fassby (cfs) 1,000 35.23 2.19

Source Summary

WMP-01682

API Number:

047-017-06421

Operator:

Antero Resources

Honey Unit 2H

Purchased Water

e Source Ohio River @ Select Energy Pleasants

Owner:

Select Energy

Start Date

End Date

Total Volume (gal)

Max. daily purchase (gal)

Intake Latitude: Intake Longitude:

6/14/2014

6/14/2015

7,020,000

500,000

39.346473

-81.338727

Regulated Stream? Ohio River Min. Flow Ref. Gauge ID:

9999998

Ohio River Station: Racine Dam

Max. Pump rate (gpm):

1,680

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

Middle Island Creek @ Solo Construction

Pleasants

Owner:

Solo Construction, LLC

Start Date

End Date

Total Volume (gal) 7,020,000

Max, dally purchase (gal) 1,000,000

39.399094

Intake Latitude: Intake Longitude: -81.185548

6/14/2014

6/14/2015

Ohio River Min. Flow Ref. Gauge ID:

9999999

Ohio River Station: Willow Island Lock & Dam

Max. Pump rate (gpm):

Regulated Stream?

Min. Gauge Reading (cfs):

6,468.00

Min. Passby (cfs)

DEP Comments:

Elevation analysis indicates that this location has the same elevation as Middle Island Creek's pour point into the Ohio River. As such, it is deemed that water flow at this

location is heavily influenced by the Ohio River.

Source

Claywood Park PSD

Wood

OWNER

Claywood Park PSD

Start Date

End Date

7,020,000

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

Intake Latitude: Intake Longitude:

6/14/2014

6/14/2015

Ref. Gauge ID:

9999998

Ohio River Station: Racine Dam

Max. Pump rate (gpm):

Regulated Stream?

Min. Gauge Reading (cfs):

7,216.00

Min. Passby (cfs)

DEP Comments:

Elevation analysis indicates that this location has approximately the same elevation as Little Kanawha's pour point into the Ohio River. As such, it is deemed that water flow

at this location is heavily influenced by the Ohio River.

 Source Sun Valley Public Service District Harrison Owner: Sun Valley PSD

Start Date End Date Total Volume (gal) Max. daily purchase (gal) Intake Latitude: Intake Longitude:

200,000

6/14/2014 6/14/2015

7,020,000

Regulated Stream? Stonewall Jackson Dam Ref. Gauge ID: 3061000 WEST FORK RIVER AT ENTERPRISE, WV

Max. Pump rate (gpm):

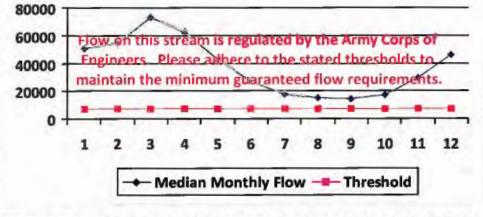
Min. Gauge Reading (cfs):

171.48

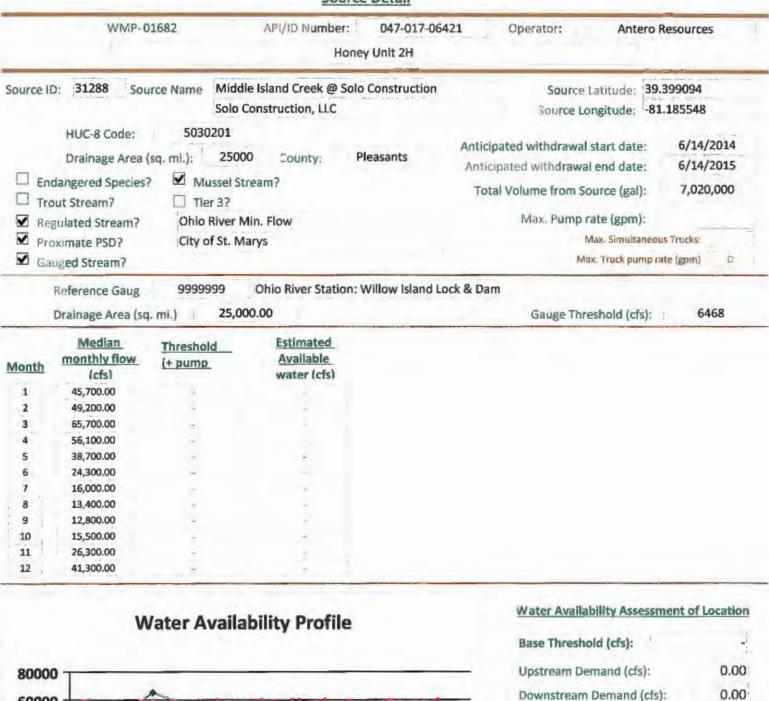
Min. Passby (cfs)

	WMP-0	1682	API/ID Numbe	r: 047-017-064	21 Operator: Antero	Resources
			Н	oney Unit 2H		
ource II	D: 31287 Sou	rce Name Ohio	River @ Select Ene	ergy	Source Latitude: 39	.346473
		Selec	ct Energy		Source Longitude: -8	1.338727
☐ Tro	HUC-8 Code: Drainage Area (dangered Species? out Stream? gulated Stream? eximate PSD?		tream?	Pleasants	Anticipated withdrawal start date: Anticipated withdrawal end date: Total Volume from Source (gal): Max. Pump rate (gpm): Max. Simultaneo	6/14/2014 6/14/2015 7,020,000 1,680
	uged Stream? Reference Gaug Drainage Area (sq	9999998 ml.) 25,0	Ohio River Statio	on: Racine Dam	Max. Truck pump Gauge Threshold (cfs):	7216
	Reference Gaug Drainage Area (sq Median monthly flow		Estimated Available	on: Racine Dam		
Month	Reference Gaug Drainage Area (sq Median monthly flow (cfs)	mi.) 25,0	000.00 Estimated	on: Racine Dam		
Month 1	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00	mi.) 25,0	Estimated Available	on: Racine Dam		
Month	Reference Gaug Drainage Area (sq Median monthly flow (cfs)	mi.) 25,0	Estimated Available	on: Racine Dam		
Month 1 2	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00 54,858.00	mi.) 25,0	Estimated Available	on: Racine Dam		
Month 1 2 3	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00 54,858.00 73,256.00	mi.) 25,0	Estimated Available	on: Racine Dam		
Vionth 1 2 3 4	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00 54,858.00 73,256.00 62,552.00	mi.) 25,0	Estimated Available	on: Racine Dam		
Month 1 2 3 4 5	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00 54,858.00 73,256.00 62,552.00 43,151.00	mi.) 25,0	Estimated Available	on: Racine Dam		
Month 1 2 3 4 5 6	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00 54,858.00 73,256.00 62,552.00 43,151.00 27,095.00	mi.) 25,0	Estimated Available	on: Racine Dam		
1 2 3 4 5 6	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00 54,858.00 73,256.00 62,552.00 43,151.00 27,095.00 17,840.00	mi.) 25,0	Estimated Available	on: Racine Dam		
Month 1 2 3 4 5 6 7	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00 54,858.00 73,256.00 62,552.00 43,151.00 27,095.00 17,840.00 14,941.00	mi.) 25,0	Estimated Available	on: Racine Dam		
Month 1 2 3 4 5 6 7 8 9	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 50,956.00 54,858.00 73,256.00 62,552.00 43,151.00 27,095.00 17,840.00 14,941.00 14,272.00	mi.) 25,0	Estimated Available	on: Racine Dam		

Water Availability Profile



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



"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.

10

Threshold

11

12

am is regulated by the Army Corps of

maintain the minimum guaranteed flow requirements.

Median Monthly Flow

adhere to the stated thresholds to

60000

40000

20000

0

0.00

0.00

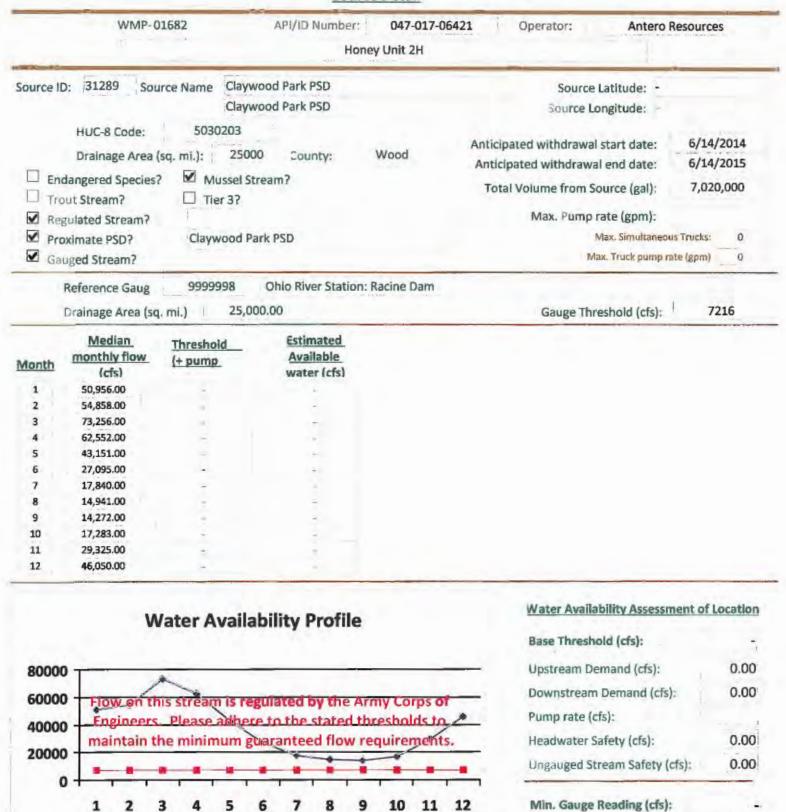
Pump rate (cfs):

Headwater Safety (cfs):

Ungauged Stream Safety (cfs):

Min. Gauge Reading (cfs):

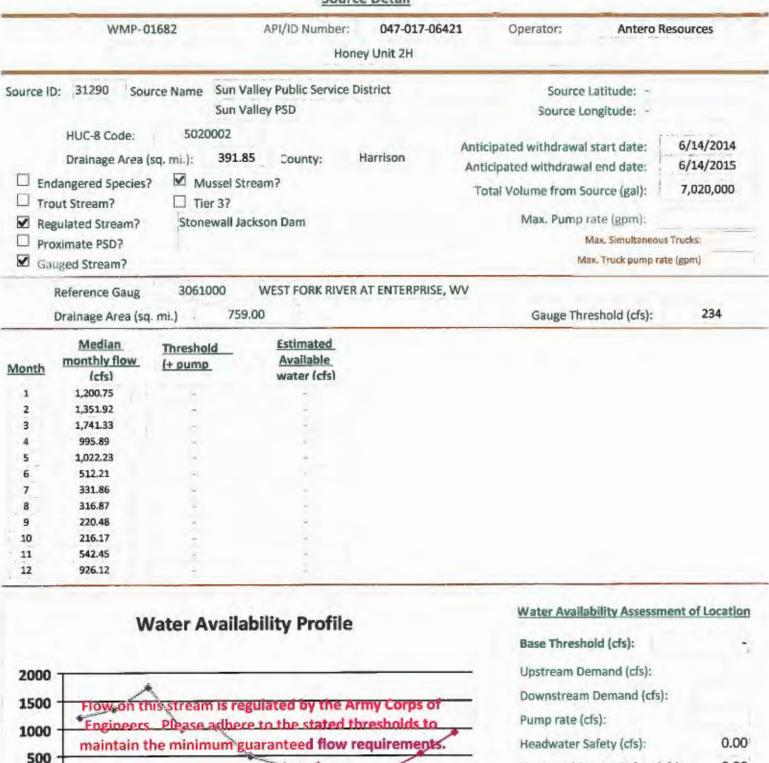
Passby at Location (cfs):



"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.

Median Monthly Flow - Threshold

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.

Threshold

10

11

12

0.00

Ungauged Stream Safety (cfs):

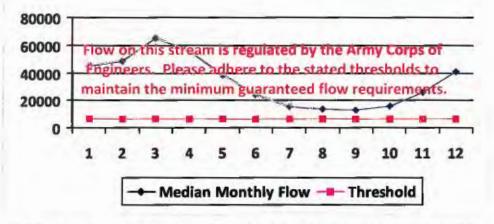
Min. Gauge Reading (cfs):

Passby at Location (cfs):

Median Monthly Flow

	WMP-0	1682	API/ID Number:	047-017-0642	Operator:	Antero F	Resources
			Hor	ney Unit 2H			
Source II	D: 31273 Sou	rce Name Ohio I	River @ Ben's Run V	Vithdrawal Site	Source	Latitude: 39.	46593
		Ben's	Run Land Company	Limited Partnership	Source Lo	ngitude: -81	.110781
	HUC-8 Code:	5030201					
		(sq. mi.): 2500	0	Tyler	Anticipated withdrawal	start date:	6/14/2014
	Drainage Area (Tyler	Anticipated withdrawa	l end date:	6/14/2015
L End	dangered Species?	Mussel Str	ream?		Total Volume from So	ource (eal).	7,020,000
☐ Tro	out Stream?	☐ Tier 3?			Total Volume II om Sc	raice (Bai).	7,020,000
₩ Reg	gulated Stream?	Ohio River M	lin. Flow		Max. Pump r	ate (gpm):	3,360
☐ Pro	oximate PSD?	1			A	Max. Simultaneou	s Trucks: 0
	uged Stream? Reference Gaug Drainage Area (sq	9999999 . mi.) 25,00	00.00	: Willow Island Lock	& Dam	eshold (cfs):	
	Reference Gaug Drainage Area (sq <u>Median</u> <u>monthly flow</u>		Estimated Available	: Willow Island Lock	& Dam		
Month	Reference Gaug Drainage Area (sq Median monthly flow (cfs)	Threshold	00.00 Estimated	: Willow Island Lock	& Dam		
	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 45,700.00	Threshold	Estimated Available	: Willow Island Lock	& Dam		
Month 1	Reference Gaug Drainage Area (sq Median monthly flow (cfs)	Threshold	Estimated Available	: Willow Island Lock	& Dam		
Month 1 2	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 45,700.00 49,200.00	Threshold	Estimated Available	: Willow Island Lock	& Dam		
Month 1 2 3	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 45,700.00 49,200.00 65,700.00 56,100.00 38,700.00	Threshold	Estimated Available	: Willow Island Lock	& Dam		
Month 1 2 3 4 5 6	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 45,700.00 49,200.00 65,700.00 56,100.00 38,700.00 24,300.00	Threshold	Estimated Available	: Willow Island Lock	& Dam		
Month 1 2 3 4 5 6 7	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 45,700.00 49,200.00 65,700.00 56,100.00 38,700.00 24,300.00 16,000.00	Threshold	Estimated Available	: Willow Island Lock	& Dam		
Month 1 2 3 4 5 6 7 8	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 45,700.00 49,200.00 65,700.00 56,100.00 38,700.00 24,300.00 16,000.00 13,400.00	Threshold (+ pump	Estimated Available	: Willow Island Lock	& Dam		
Month 1 2 3 4 5 6 7 8	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 45,700.00 49,200.00 65,700.00 56,100.00 38,700.00 24,300.00 16,000.00 13,400.00 12,800.00	Threshold (+ pump	Estimated Available	: Willow Island Lock	& Dam		
Month 1 2 3 4 5 6 7 8	Reference Gaug Drainage Area (sq Median monthly flow (cfs) 45,700.00 49,200.00 65,700.00 56,100.00 38,700.00 24,300.00 16,000.00 13,400.00	Threshold (+ pump	Estimated Available	: Willow Island Lock	& Dam		

Water Availability Profile



Headwater Safety (cfs): Ungauged Stream Safety (cfs):	0.00
Pump rate (cfs):	7.49
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	

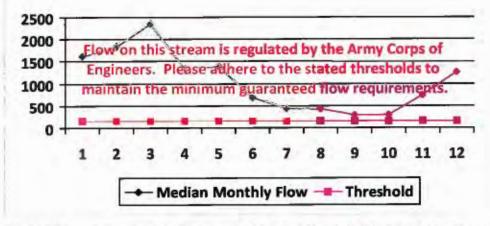
WMP-01	.682 AF	PI/ID Number:	047-017-06421	Operator:	Antero Reso	urces
		Honey L	Init 2H			
Source ID: 31274 Sour	ce Name West Fork	River @ JCP Withdr	awal	Source La	titude: 39.320	913
	James & Br	enda Raines		Source Long	gitude: 1-80.337	7572
HUC-8 Code:	5020002		Anti	cipated withdrawal st	art date: 6	5/14/2014
Drainage Area (s	q. mi.); 532.2	County: Har	rison	ticipated withdrawal e	and to distance	5/14/2015
☐ Endangered Species? ☐ Trout Stream?	✓ Mussel Stream ☐ Tier 3?	?		otal Volume from Sou		7,020,000
✓ Regulated Stream?	Stonewall Jackson	Dam		Max. Pump rat	te (gpm):	2,000
☐ Proximate PSD?				Ma	x. Simultaneous Tru	icks: 0
✓ Gauged Stream?				Max.	Truck pump rate (g	pm) c

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	1,630.82	-	e angere
2	1,836.14	-	
3	2,365.03	-	4
4	1,352.59	-	-
5	1,388.37		8
.6	695.67	-	
7	450.73	-	201
8	430.37		~
9	299.45	7	6
10	293.59		8
11	736.74		
12	1,257.84	-	

Water Availability Profile

759.00

Drainage Area (sq. mi.)

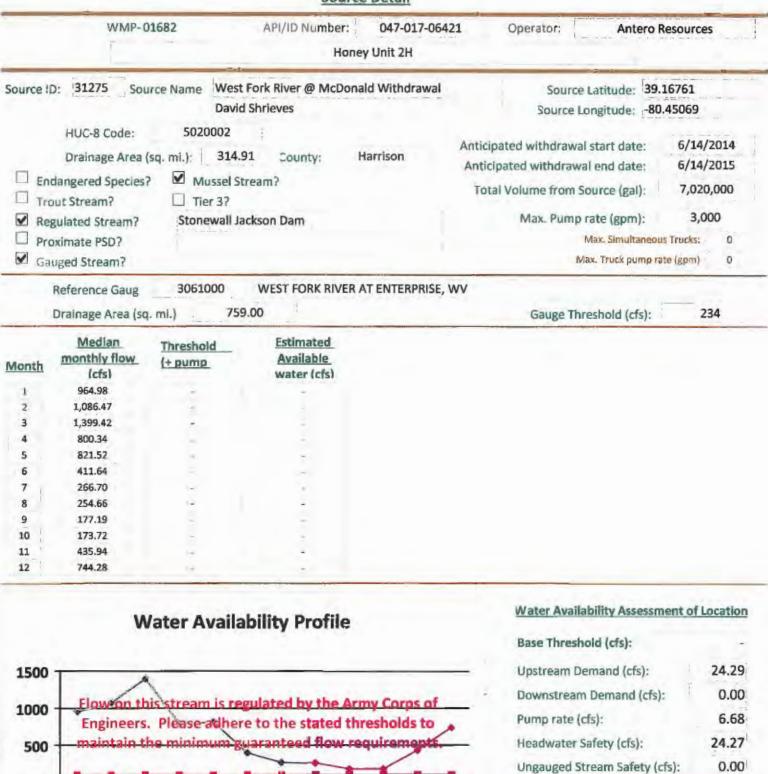


Water Availability Assessment of Location

Sauge Threshold (cfs):

234

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

Median Monthly Flow - Threshold

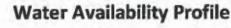
10

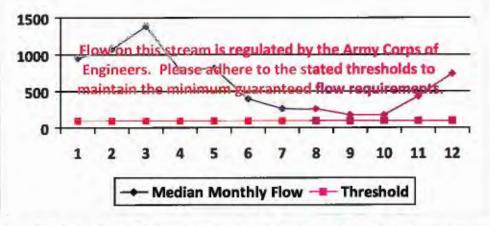
12

Min. Gauge Reading (cfs):

Passby at Location (cfs):

	WMP-0	1682	API/ID Number:	047-017-06421	Operator:	Antero R	tesources
			Hon	ney Unit 2H			
Source II	D: 31276 Sour	rce Name West	t Fork River @ GAL W	ithdrawal	Source	Latitude: 39.	16422
		David	d Shrieves		Source Lo	ongitude: -80	.45173
☐ Tro	HUC-8 Code: Drainage Area (stangered Species? out Stream? gulated Stream? oximate PSD?		tream?	Harrison	Anticipated withdrawal Anticipated withdrawa Total Volume from S Max. Pump	al end date: ource (gal):	6/14/2014 6/14/2015 7,020,000 2,000 s Trucks:
✓ Ga	uged Stream?				M	ax. Truck pump ra	te (gpm) Q
	Reference Gaug	3061000	The same of the sa	AT ENTERPRISE, W	1		
		The same of the	WEST FORK RIVER	AT ENTERPRISE, WY	1	reshold (cfs):	te (gpm) 0
	Reference Gaug	The same of the	The same of the sa	AT ENTERPRISE, W	1		
	Reference Gaug Drainage Area (sq. Median monthly flow	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, WY	1		
Month	Reference Gaug Drainage Area (sq. Median monthly flow (cfs)	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, W	1		
Month 1	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, W	1		
Month 1 2	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18 1,082.19	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, W	1		
Month 1 2 3 4 5	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18 1,082.19 1,393.91 797.19 818.28	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, WY	1		
Month 1 2 3 4	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18 1,082.19 1,393.91 797.19	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, WY	1		
Month 1 2 3 4 5	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18 1,082.19 1,393.91 797.19 818.28	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, WY	1		
Month 1 2 3 4 5 6 7 8	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18 1,082.19 1,393.91 797.19 818.28 410.02 265.65 253.65	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, W	1		
Month 1 2 3 4 5 6 7 8 9	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18 1,082.19 1,393.91 797.19 818.28 410.02 265.65 253.65 176.49	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, W	1		
Month 1 2 3 4 5 6 7 8	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18 1,082.19 1,393.91 797.19 818.28 410.02 265.65 253.65 176.49 173.04	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, WY	1		
Month 1 2 3 4 5 6 7 8 9	Reference Gaug Drainage Area (sq. Median monthly flow (cfs) 961.18 1,082.19 1,393.91 797.19 818.28 410.02 265.65 253.65 176.49	. mi.) : 759	9.00 Estimated Available	AT ENTERPRISE, WY	1		





Water Availability Assessment of Location

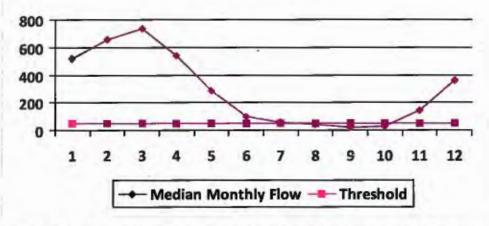
Upstream Demand (cfs):	24.29
Downstream Demand (cfs):	0.00
Pump rate (cfs):	4.46
Headwater Safety (cfs):	24.18
Ungauged Stream Safety (cfs):	0.00
Min. Gauge Reading (cfs):	
Passby at Location (cfs):	

[&]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-01682	API/ID Number: Honey	047-017-06421 Unit 2H	Operator:	Antero Re	sources	
☐ Trout Stream? ☐ Tiel ☐ Regulated Stream? ☐ Proximate PSD?		easants Ant	Source Lo icipated withdrawal iticipated withdrawal fotal Volume from So Max. Pump ro	end date: nurce (gal): ate (gpm): lax. Simultaneous I	79567 6/14/201 6/14/201 7,020,000 3,360	5
Reference Gaug 31145 Drainage Area (sq. mi.) Median Threshold	00 MIDDLE ISLAND CRE 458.00	EK AT LITTLE, WV		x. Truck pump rate	(gpm) (2

Month	Median monthly flow (cfs)	Threshold (+ pump	Available water (cfs)
1	519.88	55.12	465.14
2 .	653.95	55.12	599.22
3	731.75	55.12	677.01
4	543.38	55.12	488.65
5	286.64	55.12	231.90
6	100.10	55.12	45.36
7	56.65	55.12	1.91
8	46.64	55.12	-8.10
9	23.89	55.12	-30.85
10	30.01	55.12	-24.72
11	146.56	55.12	91.83
12	358.10	55.12	303.37

Water Availability Profile



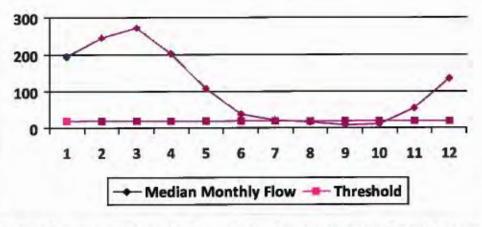
Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	52.49 47.63
Ungauged Stream Safety (cfs):	0.00
Headwater Safety (cfs):	0.00
Pump rate (cfs):	7.49
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs);	47.63

WMP-01682	API/ID Number:	047-017-06421	Operator:	Antero R	esources	
	Hone	y Unit 2H				
Source ID: 31278 Source Name	Middle Island Creek @ Daw Gary D. and Rella A. Dawso	of a large and a present them.	0.000	atitude: 39.3	379292 867803	
	181.34 County: sssel Stream?	Tyler	Anticipated withdrawal Anticipated withdrawal Total Volume from So Max. Pump ra	end date: urce (gal):	6/14/2014 6/14/2015 7,020,000 3,000	
☐ Proximate PSD? ☐ Gauged Stream?				lax. Simultaneou x. Truck pump ra		
Reference Gaug 31145 Drainage Area (sq. mi.)	MIDDLE ISLAND CR 458.00	EEK AT LITTLE, WV		eshold (cfs):	45	

Month	Median monthly flow (cfs)	Threshold (+ pump	Available water (cfs)
1	194.47	42.06	152.68
2	244.62	42.06	202.83
3	273.72	42.06	231.93
4	203.26	42.06	161.47
5	107.22	42.06	65.43
6	37.44	42.06	-4.35
7	21.19	42.06	-20.60
; 8	17.45	42.06	-24.34
9	8.94	42.06	-32.85
10	11.23	42.06	-30.56
11	54.82	42.06	13.04
12	133.96	42.06	92.17

Water Availability Profile



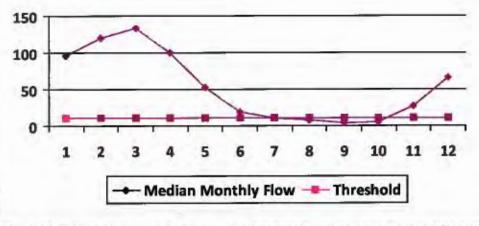
Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	76.03 28.82
Ungauged Stream Safety (cfs):	0.00
Headwater Safety (cfs):	4.45
Pump rate (cfs):	6.68
Downstream Demand (cfs):	6.55
Upstream Demand (cfs):	13.10
Base Threshold (cfs):	17.82

WMP-01682	API/ID Number: 04	A. 777 N. 644-Tan	ro Resources
Source ID: 31279 Source Name	McElroy Creek @ Forest Withdra Forest C. & Brenda L. Moore	The state of the s	39.39675 -80.738197
Drainage Area (sq. mi.): □ Endangered Species? □ N □ Trout Stream? □ Ti □ Regulated Stream?	0201 88.85 County: Tyler lussel Stream? er 3?	Total Volume from Source (gal): Max. Pump rate (gpm):	6/14/2015 7,020,000 1,000
Proximate PSD? Gauged Stream?		Max. Simultar Max. Truck pur	

Month	Median monthly flow (cfs)	Threshold (+ pump	Available water (cfs)
1	95.28	19.78	75.68
2	119.86	19.78	100.25
3	134.11	19.78	114.51
4	99.59	19.78	79.99
5	52.54	19.78	32.93
6	18.35	19.78	-1.26
7	10.38	19.78	-9.22
8	8.55	19.78	-11,05
9	4.38	19.78	-15.23
10	5,50	19.78	-14.10
11	26.86	19.78	7.26
12	65.63	19.78	46.03

Water Availability Profile



Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	74.19 13.09
Ungauged Stream Safety (cfs):	2.18
Headwater Safety (cfs):	2.18
Pump rate (cfs):	2.23
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	4.46
Base Threshold (cfs):	8.73

WMP-01682		W	M	p.	0	1	5	8	2
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API/ID Number:

047-017-06421

Operator:

Antero Resources

Honey Unit 2H

Source ID:

31280

Source Name

Meathouse Fork @ Gagnon Withdrawal

Source Latitude: 39.26054 Source Longitude: -80.720998

HUC-8 Code:

George L. Gagnon and Susan C. Gagnon 5030201

County:

Doddridge

Anticipated withdrawal start date:

6/14/2014

Drainage Area (sq. mi.): 60.6

Anticipated withdrawal end date:

6/14/2015

Endangered Species? ✓ Mussel Stream? Trout Stream?

Total Volume from Source (gal):

7,020,000

Regulated Stream?

☐ Tier 3?

Max. Pump rate (gpm):

Max. Simultaneous Trucks:

1,000

Proximate PSD? Gauged Stream?

Max. Truck pump rate (gpm)

Reference Gaug

3114500

MIDDLE ISLAND CREEK AT LITTLE, WV

Drainage Area (sq. mi.)

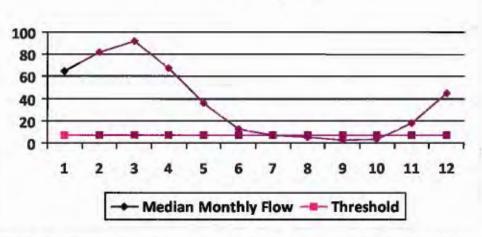
458.00

Gauge Threshold (cfs):

45

Month	Median monthly flow (cfs)	Threshold (+ pump	Available water (cfs)
1	64.99	13.39	51.70
2	81.75	13.39	68.46
3	91.47	13.39	78.19
4	67.93	13.39	54.64
5	35.83	13.39	22.55
6	12.51	13.39	-0.77
7	7.08	13.39	-6.20
8	5.83	13.39	-7.45
9	2.99	13.39	-10.30
10	3.75	13.39	-9.53
11	18.32	13.39	5.04
12	44.76	13.39	31.48

Water Availability Profile



Water Availability Assessment of Location

Base Threshold (cfs):	5.95
Upstream Demand (cfs):	2.23
Downstream Demand (cfs):	2.81
Pump rate (cfs):	2.23

Headwater Safety (cfs): 1.49 Ungauged Stream Safety (cfs): 1.49

Min. Gauge Reading (cfs): 71.96

Passby at Location (cfs):

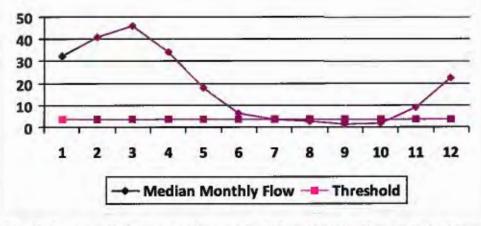
"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability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

11.74

Source ID: 31281 Source Name Meathouse Fork @ Whitehair Withdrawal Source Latitude: 39.211317	WMP-01682	API/ID Number: 047-017-0642 Honey Unit 2H	21 Operator: Antero R	esources
Drainage Area (sq. mi.): 30.37 County: Doddridge Endangered Species? Mussel Stream? Total Volume from Source (gal): 7,020,000 Trout Stream? Tier 3? Regulated Stream? Max. Pump rate (gpm): 1,000 Proximate PSD? Max. Simultaneous Trucks: Gauged Stream? Max. Truck pump rate (gpm): 0 Reference Gaug 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV	Elt	on Whitehair		THE CHIEF Y
	Drainage Area (sq. mi.): 30 ✓ Endangered Species? ✓ Mussel ☐ Trout Stream? ☐ Tier 3? ☐ Regulated Stream? ☐ Proximate PSD?	0.37 County: Doddridge	Anticipated withdrawal end date: Total Volume from Source (gal): Max. Pump rate (gpm): Max. Simultaneous	6/14/2015 7,020,000 1,000
Drainage Area (sq. mi.) 456.50		MIDDLE ISLAND CREEK AT LITTLE, W 458.00	Cauge Threshold (cfs):	45

Month	Median monthly flow (cfs)	Threshold (+ pump	Available water (cfs)
1	32.57	6.70	26.15
2	40.97	6.70	34.55
3	45.84	6.70	39.42
4	34.04	6.70	27.62
5	17.96	6.70	11.54
6	6.27	6.70	-0.15
7	3.55	6.70	-2.87
8	2.92	6.70	-3.50
9	1.50	6.70	-4.92
10	1.88	6.70	-4.54
11	9.18	6.70	2.76
12	22.43	6.70	16.01

Water Availability Profile



Water Availability Assessment of Location

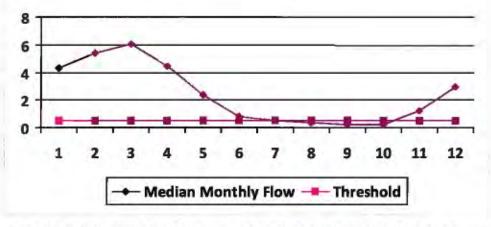
Min. Gauge Reading (cfs): Passby at Location (cfs):	69.73 7.29
Ungauged Stream Safety (cfs):	0.75
Headwater Safety (cfs):	0.75
Pump rate (cfs):	2.23
Downstream Demand (cfs):	2.81
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	2.98

[&]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-01682	API/ID Numbe	r: 047-017-0	06421 Operator: Antero F	Resources
S a somigin	Н	oney Unit 2H	e-mail	
Source ID: 31282 Source Name	Tom's Fork @ Erwin Wi	thdrawal	Source Latitude: 39.	174306
	John F. Erwin and Sandi	ra E. Erwin	Source Longitude: -80	.702992
HUC-8 Code: 5030 Drainage Area (sq. mi.):	4.01 County:	Doddridge	Anticipated withdrawal start date:	6/14/2014 6/14/2015
	ussel Stream?		Anticipated withdrawal end date: Total Volume from Source (gal):	7,020,000
☐ Regulated Stream?			Max. Pump rate (gpm):	1,000
☐ Proximate PSD?			Max. Simultaneou	s Trucks: 0
Gauged Stream?			Max. Truck pump ra	te (gpm)
Reference Gaug 31145	MIDDLE ISLAND	CREEK AT LITTLE	, wv	
Drainage Area (sq. mi.)	458.00		Gauge Threshold (cfs):	45
Median Threshol Month monthly flow (+ pump	Asmilable			***************************************

Month	Median monthly flow (cfs)	Threshold {+ pump	Available water (cfs)
1	4.30	2.82	1.88
2	5.41	2.82	2.98
3	6.05	2.82	3.63
4	4.49	2.82	2.07
5	2.37	2.82	-0.05
6	0.83	2.82	-1.60
7	0.47	2.82	-1.96
8	0.39	2.82	-2.04
9	0.20	2.82	-2.23
10	0.25	2.82	-2.18
11	1.21	2.82	-1,21
12	2.96	2.82	0.54

Water Availability Profile



Water Availability Assessment of Location

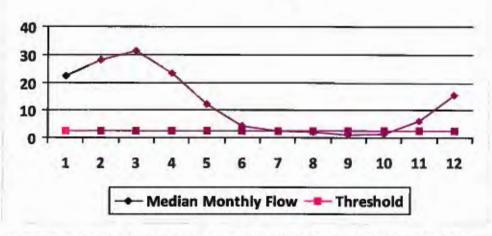
Passby at Location (cfs):	0.59
Min. Gauge Reading (cfs):	69.73
Ungauged Stream Safety (cfs):	0.10
Headwater Safety (cfs):	0.10
Pump rate (cfs):	2.23
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	0.39

Source Detail WMP-01682 API/ID Number: 047-017-06421 Operator: Antero Resources Honey Unit 2H 31283 Source ID: Source Name Arnold Creek @ Davis Withdrawal Source Latitude: |39.302006 Jonathon Davis Source Longitude: -80.824561 5030201 HUC-8 Code: Anticipated withdrawal start date: 6/14/2014 Drainage Area (sq. mi.): 20.83 County: Doddridge Anticipated withdrawal end date: 6/14/2015 **Endangered Species?** ✓ Mussel Stream? Total Volume from Source (gal): 7,020,000 Trout Stream? Tier 3? 1,000 Regulated Stream? Max. Pump rate (gpm): Proximate PSD? Max. Simultaneous Trucks: Gauged Stream? Max. Truck pump rate (gpm) 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV Reference Gaug 458.00

Month	Median monthly flow (cfs)	Threshold (+ pump	Available water (cfs)
1	22.34	5.30	17.29
2	28.10	5.30	23.05
3	31.44	5.30	26.39
4	23.35	5.30	18.30
5	12.32	5.30	7.26
6	4.30	5.30	-0.75
7	2.43	5.30	-2.62
8	2.00	5.30	-3.05
9	1.03	5.30	-4.03
10	1.29	5,30	-3.76
11	6.30	5.30	1.25
12	15.39	5.30	10.34

Drainage Area (sq. mi.)

Water Availability Profile



Water Availability Assessment of Location Base Threshold (cfs): 2.05

Gauge Threshold (cfs):

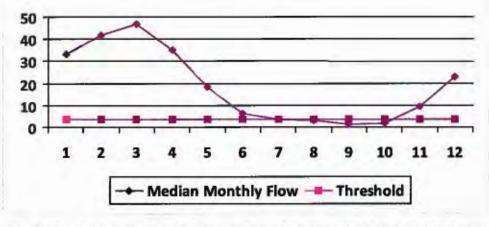
45

0.00 Upstream Demand (cfs): Downstream Demand (cfs): 0.00 Pump rate (cfs): 2.23 0.51 Headwater Safety (cfs): Ungauged Stream Safety (cfs): 0.51

Min. Gauge Reading (cfs): 69.73 3.07 Passby at Location (cfs):

	WMP-0	1682	API/ID Numbe	r: 047-017-0	6421 Ope	rator: Antero I	Resources	
			Н	loney Unit 2H				
Source ID: 31284 Source Name Buckeye Creek @ Powell Withdrawal Dennis Powell		Source Latitude: 39.277142						
		Powell		Source Longitude: -80.690386				
	HUC-8 Code:	5030201						
Drainage Area (sq. mi.): 31.15 County: Doddridge		Anticipated v	vithdrawal start date:	6/14/203	14			
		(sq. mi.): 31.15	County: Doddridge		Anticipated withdrawal end date:		6/14/2015	
☐ Endangered Species? ☑ Mussel Stream?				33.5000				
□ Tre	out Stream?	☐ Tier 3?			Total Voiu	me from Source (gal):	7,020,00	JU
-	gulated Stream?	_ 1101 31			M	ax. Pump rate (gpm):	1,000	
1-1	Maria de la Caración					Max. Simultaneou		0
-	oximate PSD?					Max. Truck pump ra		0
L Ga	uged Stream?	The state of the s					ter (Blanch)	
	Drainage Area (so	3-451	Estimated			Gauge Threshold (cfs):	45	
	monthly flow	Threshold	Available					
Month	(cfs)	(+ pump	water (cfs)					
1	33.41	6.82	26.95					
2	42.02	6.82	35.56					
3	47.02	6.82	40.56					
4	34.92	6.82	28.46					
5	18.42	6.82	11.96					
6	6.43	6.82	-0.03					
7	3.64	6.82	-2.82					
8	3.00	6.82	-3.46					
9	1.53	6.82	-4.92					
: 10	1.93	6.82	-4.53					
11	9.42	6.82	2.96					
12	23.01	6.82	16.55					

Water Availability Profile



Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	69.73 4.59
Ungauged Stream Safety (cfs):	0.77
Headwater Safety (cfs):	0.77
Pump rate (cfs):	2.23
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	3.06

WMP-01682

API/ID Number:

Tracy C. Knight & Stephanie C. Knight

County:

047-017-06421

Operator:

Antero Resources

Honey Unit 2H

Source ID: 31285

Source Name South Fork of Hughes River @ Knight Withdrawal

Source Latitude: '39.198369

Source Longitude: |-80.870969

Max. Truck pump rate (gpm)

HUC-8 Code:

5030203

Anticipated withdrawal start date:

Drainage Area (sq. mi.):

16.26

Ritchie

6/14/2014

✓ Endangered Species?

Mussel Stream?

Anticipated withdrawal end date:

6/14/2015

☐ Trout Stream?

☐ Tier 3?

Total Volume from Source (gal):

7,020,000

Regulated Stream?

Max. Pump rate (gpm):

Proximate PSD?

Max. Simultaneous Trucks:

3,000 0

☑ Gauged Stream? Reference Gaug

3155220

SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WV

Drainage Area (sq. mi.)

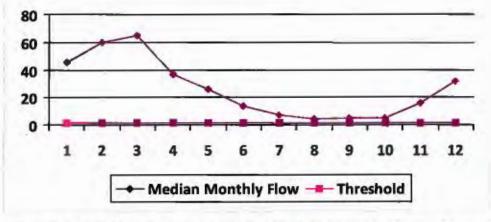
229.00

Gauge Threshold (cfs):

22

Month	Median monthly flow (cfs)	Threshold (+ pump	<u>Available</u> water (cfs)
1	45.67	14.26	31.44
2	59.55	14.26	45.31
3	65.21	14.26	50.97
4	36.87	14.26	22.63
5	25.86	14.26	11.63
6	13.90	14.26	-0.33
7	6.89	14.26	-7.34
8	3.98	14.26	-10.25
9	4.79	14.26	-9.45
10	5.20	14.26	-9.04
11	15.54	14.26	1.30
12	32.06	14.26	17.82

Water Availability Profile



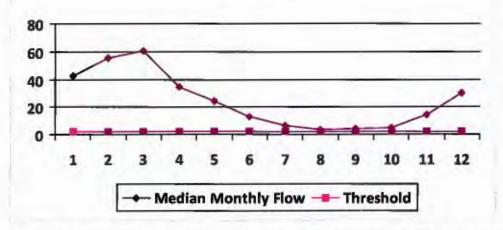
Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	39.80 1.95
Ungauged Stream Safety (cfs):	0.00
Headwater Safety (cfs):	0.39
Pump rate (cfs):	6.68
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	5.62
Base Threshold (cfs):	1.56

Source Detail WMP-01682 API/ID Number: 047-017-06421 Operator: Antero Resources Honey Unit 2H Source ID: 31286 Source Name North Fork of Hughes River @ Davis Withdrawal Source Latitude: 39.322363 Source Longitude: -80.936771 Lewis P. Davis and Norma J. Davis 5030203 HUC-8 Code: 6/14/2014 Anticipated withdrawal start date: 15.18 Ritchie Drainage Area (sq. mi.): County: Anticipated withdrawal end date: 6/14/2015 ✓ Mussel Stream? **Endangered Species?** Total Volume from Source (gal): 7,020,000 ☐ Trout Stream? ☐ Tier 3? 1,000 Max. Pump rate (gpm): Regulated Stream? Max. Simultaneous Trucks: 0 Proximate PSD? Max. Truck pump rate (gpm) Gauged Stream? 3155220 SOUTH FORK HUGHES RIVER BELOW MACFARLAN, WV Reference Gaug 229.00 22 Drainage Area (sq. ml.) Threshold (cfs):

Month	Median monthly flow (cfs)	Threshold (+ pump	<u>Estimated</u> <u>Available</u> water (cfs)
1	42.64	4.42	38.36
2	55.59	4.42	51.32
3	60.88	4.42	56.60
4	34.42	4.42	30.14
. 5	24.15		19.87
6	12.98	4.42	8.70
. 7	6.44	4.42	2.16
8	3.72	4.42	-0,56
9	4.47	4.42	0.19
10	4.85	4.42	0.57
11	14.50	4.42	10.23
12	29.93	4.42	25.65

Water Availability Profile



Water Availability Assessment of Location

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

west virginia department of environmental protection



Water Management Plan: **Secondary Water Sources**



WMP-01682

API/ID Number:

047-017-06421

Operator:

Antero Resources

Honey Unit 2H

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/Reservior

Source ID: 31291 Source Name

City of Salem Reservior (Lower Dog Run)

Public Water Provider

1,000,000

Source start date:

Total Volume from Source (gal):

6/14/2014

Source end date:

6/14/2015

Source Lat:

Max. Daily Purchase (gal)

39.28834

Source Long:

-80.54966

Harrison County

7,020,000

WMP-01682

API/ID Number

047-017-06421

Operator:

Antero Resources

Honey Unit 2H

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: 31292 Source Name

Pennsboro Lake

Source start date:

6/14/2014

Source end date:

6/14/2015

Source Lat:

39,281689

Source Long:

-80.925526

County

Ritchie

Max. Daily Purchase (gal)

Total Volume from Source (gal):

7,020,000

DEP Comments:

Source ID: 31293 Source Name

Powers Lake (Wilderness Water Park Dam)

Source start date: Source end date:

6/14/2014

Private Owner

39.255752

-80.463262 Source Long:

County

6/14/2015

Harrison

Max. Daily Purchase (gal)

Source Lat:

Total Volume from Source (gal):

7,020,000

WMP-01682

API/ID Number

047-017-06421

Operator:

Antero Resources

Honey Unit 2H

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: 31294 Source Name

Powers Lake Two

Source start date:

6/14/2014

Source end date:

6/14/2015

Source Lat:

39.247604

Source Long:

-80.466642

County

Harrison

Max: Dally Purchase (gal)

Total Volume from Source (gal):

7,020,000

Honey Unit 2H

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.

Other

Source ID: 31295 Source Name

Poth Lake (Landowner Pond)

Private Owner

Source start date:

6/14/2014

Source end date:

6/14/2015

Source Lat:

39.221306

Source Long:

-80.463028

County

Harrison

Max. Daily Purchase (gal)

Total Volume from Source (gai):

7,020,000

DEP Comments:

Source ID: 31296 Source Name

Williamson Pond (Landowner Pond)

Source start date:

6/14/2014

Source end date:

6/14/2015

Source Lat:

39.19924

Source Long:

-80.886161

County

Ritchie

Max. Daily Purchase (gal)

Total Volume from Source (gal):

7,020,000

Honey Unit 2H

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: 31297 Source Name

Eddy Pond (Landowner Pond)

Source start date:

6/14/2014

Source end date:

6/14/2015

39.19924

Source Long:

-80.886161

County

Ritchie

Max. Daily Purchase (gal)

Total Volume from Source (gal):

7,020,000

DEP Comments:

Source ID: 31298 Source Name

Hog Lick Quarry

Industrial Facility

Source start date: Source end date:

6/14/2014 6/14/2015

Source Lat:

39,419272

Source Long:

-80.217941

County

Marion

Max. Daily Purchase (gal)

1,000,000

Total Volume from Source (gal):

7,020,000

047-017-06421

Operator:

Antero Resources

Honey Unit 2H

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: 31299 Source Name

Glade Fork Mine

Source start date:

6/14/2014

Industrial Facility

Source end date:

6/14/2015

Source Lat.

38.965767

Source Long:

-80.299313

County

Upshur

Max. Daily Purchase (gal)

1,000,000

Total Volume from Source (gal):

7,020,000

DEP Comments:

Recycled Frac Water

Source ID: 31300 Source Name

Various

Source start date:

6/14/2014

Source end date:

6/14/2015

Source Lat:

Source Long:

County

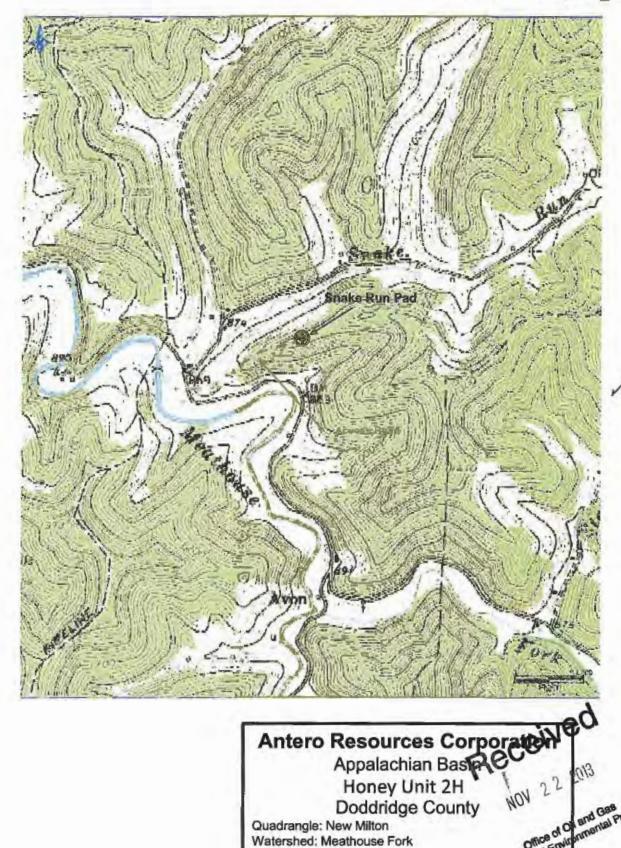
Max. Daily Purchase (gal)

Total Volume from Source (gal):

7,020,000

DEP Comments:

Sources include, but are not limited to: Dufflemeyer Unit 1H



Quadrangle: New Milton Watershed: Meathouse Fork

District: New Milton Date: 11-1-2013

W Dept. of Envir

