

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

June 10, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-103300, issued to CNX GAS COMPANY LLC , 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: AUD5JHS

Farm Name: JENKINS, DANA L.

API Well Number: 47-103300

Permit Type: Horizontal 6A Well

Date Issued: 06/10/2013

1-3300



west virginia department of environmental protection

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

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6

TO: CNX Gas Company LLC

One Energy Drive Jane Lew, WV 26378 DATE: June 6, 2013

ORDER NO.: 2013-W-3

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 et seq. to CNX Gas Company LLC (hereinafter "CNX" or "Operator"), collectively the "Parties."

FINDINGS OF FACT

In support of this Order, the Chief hereby finds the following:

- OOG, an office within the West Virginia Department of Environmental Protection, is the agency
 with the duty and authority to execute and enforce W. Va. Code §§ 22-6-1 and 22-6A-1 et seq.,
 and the rules and regulations promulgated thereunder.
- 2. CNX is a "person" as defined by W. Va. Code § 22-6-1(n), with a corporate address as One Energy Drive, Jane Lew, WV 26378.
- On February 14, 2013, CNX submitted applications for gas wells identified as API #s 47-001-03293, 47-001-03294, and 47-001-03295; and on March 25, 2013, API #s 47-001-03297, 47-001-03298, 47-001-03299 and, 47-001-03300, located on the AUD5HS Pad in Barbour County, West Virginia.
- 4. On May 15th, 2013, CNX requested a waiver for a wetland along the northern boundary ("wetland") of the proposed well pad outlined in Exhibit 1, from well location restriction requirements in W. Va. Code § 22-6A-12(b) for a gas well permit applications identified as API #s 47-001-03293, 47-001-03294, 47-001-03295, 47-001-03297, 47-001-03298, 47-001-03299 and, 47-001-03300, located on the AUD5HS Pad in Barbour County, West Virginia.

CONCLUSIONS OF LAW

- 1. West Virginia Code § 22-1-6(d) requires, in part, that "[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing"
- 2. West Virginia Code § 22-6A-2(a)(6) requires, in part, that "[c]oncomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter;"
- 3. West Virginia Code § 22-6A-12(b) requires, in part, that "[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No wellpad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows:(1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir.

 (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake.(3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

Therefore, the Office of Oil and Gas grants CNX Gas Company LLC a waiver for this wetland from well location restriction requirements in W. Va. Code § 22-6A-12(b) for gas well permit applications identified as API #s 47-001-03293, 47-001-03294, 47-001-03295, 47-001-03297, 47-001-03298, 47-001-03299 and, 47-001-03300, located on the AUD5HS Pad in Barbour County, West Virginia.. The Office of Oil and Gas hereby **ORDERS** that CNX Gas Company LLC shall meet the following site construction and operational requirements for the AUD5HS well pad:

- 1. CNX Gas Company, LLC shall meet the following site construction and operational requirements for the AUD5HS well pad:
 - a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least two feet (2') in height;
 - b. Filter/silt socks and erosion control blankets shall be installed on all slopes and down gradient locations of the pad and topsoil pile areas steeper than 3H:1V, as erosion and sediment controlling BMPs;
 - c. The wetland shall have a compost filter sock installed no less than twenty-five feet (25') away from the northern boundary;
 - d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
 - e. Drilling muds shall be disposed of in a permitted landfill;
 - f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
 - g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
 - h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
 - i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
 - j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
 - k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 6th day of June 2013.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

> Order No. 2013-W-3 Page 3

OFFICE OF THE BARBOUR DEMOCRAT

I, John Eric Cutright, Publisher of The BARBOUR DEMO published in the City of Philippi, County of Barbour, and certify that the annexed:

LEGAL NOTICE

was duly printed in said paper two consecutive weeks or Wednesday, the 20TH day of March, 2013.

Given under my hand at Philippi, West Virginia, this 27Th

Publishe

STATE OF WEST VIRGINIA

COUNTY OF BARBOUR; to wit

Sworn to and subscribed before me this 27TH day of March, 2013.

My Commission Expires May 16, 2022.

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement

Paper: The Barbour Democrat

Public Notice Date: 03/20/13 & 3/27/13

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: CNX Gas Company, LLC Well Number: AUD5GHS, AUD5HHS, AUD5HS, AUD5HS

Address: PO Box 1248

Jane Lew, WV 26378

Business Conducted: Natural gas production.

Location -

State: West Virginia

County: Barbou

District: Union

Quadrangle: Audra

UTM Coordinate NAD83 Northing: 4,328,489.38m, 4,328,485.69m, 4,328,481.78m, & 4,328,478.01m

UTM coordinate NAD83 Easting: 578,716.14m, 578,711.36m, 578,706.56m, & 578,701,80m

Watershed: Buckhannon River

Coordinate Conversion:
To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/flutm_conus

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wvgov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.oog@wv.gov.

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx 3-20.27

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. The subject application contains information which indicates that the 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 fill material shall be within plus or minus 2% of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 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.

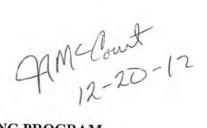
WW - 6B (1/12)

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

1) Well Operator: CNX Gas	Company, LLC		494458046	Barbour	Union	Audra
			Operator ID	County	District	Quadrangle
2) Operator's Well Number	: AUD5JHS			Well Pad Nar	ne: AUD5HS	
2) Operator 3 went runnoer	10000110			,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
3 Elevation, current ground	d: 1622'	Ele	evation, proposed	post-constru	ction:	1620'
4) Well Type: (a) Gas		Oil 🔳				
Other						
(b) If Gas:	Shallow		Deep		T	
136.37	Horizontal					
5) Existing Pad? Yes or No	: No					
6) Proposed Target Format	ion(s) Denth	(s) Anticipat	ed Thicknesses ar	nd Associated	Pressure(s)	
Target - Marcellus, Depth - 7880, Thic			ca imediesses ai	na 7133001atet	i i ressure(s).	
7) Dropogod Total Vartical	Donth:	00701				
7) Proposed Total Vertical		8070'				
8) Formation at Total Verti		Onondaga Grou	р		-	
9) Proposed Total Measure		16000'	105(505)			
10) Approximate Fresh Wa			', 165', 505'			27.2
11) Method to Determine F		- 10 mm	eference Well # 33306 AP	1#47-001-02985 -	Seneca Technology	data base
12) Approximate Saltwater		None Anticipated				
13) Approximate Coal Sear		165', 505'	leanat athorn.	Mary Armston	2.5	
14) Approximate Depth to15) Does land contain coal				None Anticipa	ited	
				A CAMPAGE AS THE REST	d TUD - (40000)	NATE HAS BEEN ADDED AS A
 Describe proposed well TVD of 8070', formation at TVD - Hunters 			ew horizontal Marcellus we			
be done using the displacement method and						
and cement to surface with approved Class A type c	ement. Well bore will not be	drilled any deeper than 100' in	nto the Onondaga Group, nor will there	e be any production, perforal	ion, or stimulation of any forma	ations below the larget formation.
17) Describe fracturing/stir	nulating met	hods in detail:	tel carre			
The stimulation will be multiple stages	divided over the late	eral length of the well.	Stage spacing is dependen	nt upon engineering	design. Slickwater fra	cturing technique will be
utilized on each stage using sand, wa	iter, and chemicals.					
18) Total area to be disturb	ed including	roads stockr	nile area nits etc	(acres):	16.62 Acres	
10) Total area to be distart	ou, moraum	5 roudo, otooni	one area, prio, etc.	(deres).	10.02710.00	
19) Area to be disturbed fo	r well pad or	ily, less acces	s road (acres):	11.88 Acr	es	
N AMERICAN SECTIONS OF SECTION			ALCOHOL PURGO SAN	-		

RECEIVED
Office of Oil and Gas

MAY 2 0 2013



20)

CASING AND TUBING PROGRAM

ТҮРЕ	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20"	Ν	L.S.	81.3#	30'	30'	Sand In
Fresh Water	13 3/8	N	J-55	54.5#	600'	600'	CTS w/ approved Class A Type Cement
Coal							
Intermediate	9 5/8	N	J-55	36#	2000'	2000'	CTS w/ approved Class A Type Cement
Production	5 1/2	Ν	P-110	20#	16000'	16000'	2400 cu. ft. w/ 50/50 POZ Lead & Class A Tail
Tubing	2 3/8	N	J-55	4.7#	8380'	8380'	
Liners							

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	26"	0.438	2110	Class A Type	1.18
Fresh Water	13 3/8"	17 1/2"	0.380	2730	Class A Type	1.39
Coal						
Intermediate	9 5/8"	12 3/8"	0.352	3520	Class A Type	1.18
Production	5 1/2"	8 3/4" and 8 1/2"	0.361	12640	Class A Type	1.26
Tubing	2 3/8"	8 3/4" and 8 1/2"	0.190	7700		* 101, 100
Liners					0, 60	10° 30°

PACKERS

Kind:	None	- A
Sizes:	None	
Depths Set:	None	16.5

Bow spring centralizers on first joint then every fourth joint to 100	Conductor - No centralizers used. Fresh Water & Coal -
	feet from surface. Intermediate - Bow spring
centralizers one on the first two joints and every fourth joint until i	inside surface casing. Production - Rigid bow spring
centralizer on first joint then every 2 casing joints (free floating) the	nrough the lateral and the curve.
(Note: cementing the 5 1/2" casing completely in open hole lateral	al and curve.)
) Describe all cement additives associated with each cement	The state of the s
Fresh Water/Coal - 2% CaCl2. Intermediate - 2% CaCl2. Production	on - 2.6% Cement extender, 0.7% Fluid loss additive,
0.5% High Temperature Retarder, 0.2% Friction Reducer	
	Teleficients and an arrangement
Proposed borehole conditioning procedures. Conductor	- The hole is drilled w/air and casing ran in air. Apart from insuring
the hole is clean via air circulation at TD, there are no other conditioning procedu	res. Fresh Water/Coat - The hole is drilled w/air and casing is rar
in air. Once casing is on bottom, the casing shoe will be cleared with fresh wa	ter and gel prior to cementing. Intermediate - The hole is drilled
w/air and casing is ran in air. Once casing is on at bottom, the casing shoe wi	Il be cleared with fresh water and gel prior to cementing. (Note
Drilling soap may be utilized if the hole gets wet/damp during the drilling of	all air holes with the exception of the conductor) Production -
The hole will be drilled with synthetic oil base mud and once at TD the	e hole is circulated at a drilling pump rate until the hole is
clean. Once casing is ran the hole is circulated for a minimum of	one hole volume prior to pumping cement.
Clearly, Office cashing is fair the flore is circulated for a minimum of	
clear, once casing is fair the note is circulated for a minimum of	
clearly, office cashing is fair the flore is circulated for a fill limited for	
ote: Attach additional sheets as needed.	
	2013
	8 1 d 2013
	EEB 1 4 2013
	EEB I & 2013
clear, Once casing is fair the flore is circulated for a filliminant of	

Cement Additives

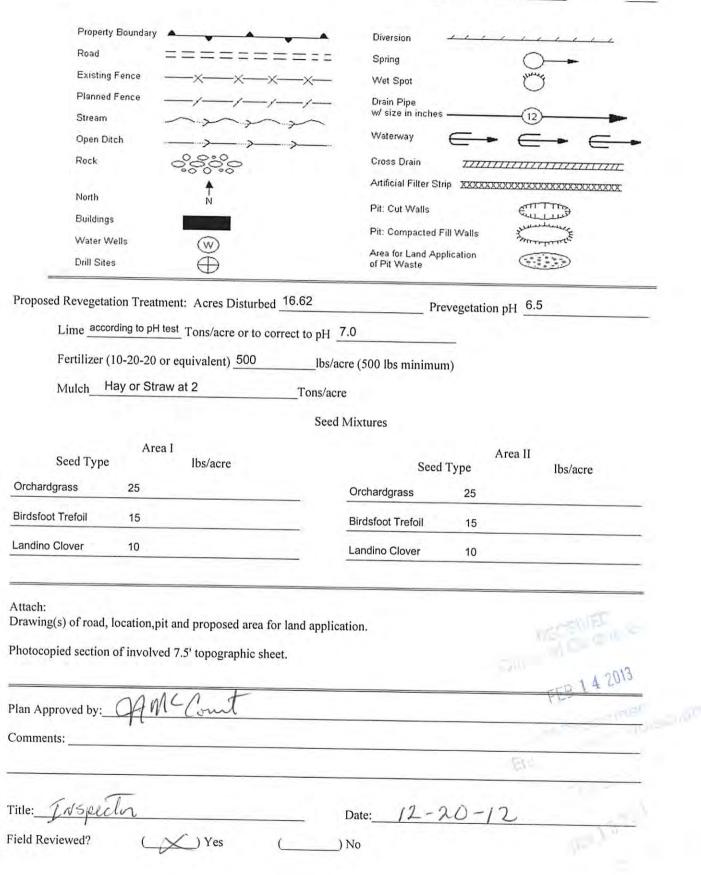
- Conductor 2% CaCl2
- Freshwater/Coal 2% CaCl2
- Intermediate 2% CaCl2
- · Production
 - o 2.6% Cement extender
 - o 0.7% Fluid Loss Additive
 - o 0.5% High Temperature Retarder
 - o 0.2% Friction Reducer



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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name CNX Gas Compar	y, LLC	OP Code 49445804	6
Watershed Buckhannon River	Quac	Irangle Audra	
Elevation 1622'	County_Barbour	District Union	
Description of anticipated Pit W	aste: Fluids associated with the drilling of ne	w gas wells	
Do you anticipate using more th	an 5,000 bbls of water to complete the p	proposed well work? Yes X	No
Will a synthetic liner be used in	the pit? Yes If so, wh	at mil.? 60 ml	
Unde Reuse Off S	Freated Pit Wastes: Application rground Injection (UIC Permit Number e (at API Number ite Disposal (Supply form WW-9 for di (Explain_Recycle on other well on same p	isposal location)	
	this well? Air, freshwater, oil based, etc? Synthetic, petroleum, etc. N/Ade, Polmers, Weighting Agents	c. Air + Waterbased Mud	
Will closed loop system be used			
	o solidify what medium will be used? C e/permit number? MeadowFill, S&S Landfil		
on August 1, 2005, by the Offic provisions of the permit are enforce or regulation can lead to enforce I certify under penalty application form and all attachmente information, I believe that is submitting false information, inc. Company Official Signature Company Official (Typed Name	of law that I have personally examinents thereto and that, based on my inquite information is true, accurate, and cluding the possibility of fine or impriso	Department of Environmental Properties of the general permed and am familiar with the birry of those individuals immed complete. I am aware that the nament.	rotection. I understand that the mit and/or other applicable law information submitted on this iately responsible for obtaining
Subscribed and sworn before me			
Kelly a. My commission expires Se	Eddy ptember 18,2018	Notary Public	NOTARY PUBLIC OFFICIAL SEAL STATE OF WEST VIRGINIA KELLY A. EDDY RT 2 BOX 225A JANE LEW, WV 26378 MY COMMISSION EXPIRES SEPT 18, 2018



west virginia department of environmental protection



Water Management Plan: Secondary Water Sources



WMP-01111

API/ID Number

047-001-03300

Operator:

Consol Energy - WV

AUD5JHS

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: 14204 Source Name

Warder North Impoundment

Source start date:

5/1/2013

Source end date:

5/1/2014

Source Lat:

39.192505

Source Long:

-80.025198

County

Barbour

Max. Daily Purchase (gal)

Total Volume from Source (gal):

3,696,000

DEP Comments:

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

Reference: WMP-189

APPROVED MAY 2 4 2013

WMP-01111 API/ID Number 047-001-03300 Operator: Consol Energy - WV

AUD5JHS

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: 14205 Source Name Warder South Impoundment Source start date: 5/1/2013
Source end date: 5/1/2014

Source Lat: 39.19097 Source Long: -80.025198 County Barbour

Max. Daily Purchase (gal) Total Volume from Source (gal): 3,570,000

DEP Comments:

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

Reference: WMP-190

WMP-01111 API/ID Number 047-001-03300 Operator: Consol Energy - WV

AUD5JHS

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: 14206 Source Name ALT 1 Flowback Pit Source start date: 5/1/2013
Source end date: 5/1/2014

Source Long:

Max. Daily Purchase (gal)

Total Volume from Source (gal): 3,977,064

80.183196

County

Barbour

DEP Comments:

Source Lat:

38.793967

Source ID: 14207 Source Name PHL 1 Flowback Pit Source start date: 5/1/2013 Source end date: 5/1/2014

Source Lat: 39.192372 Source Long: -80.018833 County Barbour

Max. Daily Purchase (gal)

Total Volume from Source (gal): 1,793,358

DEP Comments:

WMP-01111 API/ID Number 047-001-03300 Operator: Consol Energy - WV
AUD5JHS

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 start date:	5/1/2013
				Source end date:	5/1/2014
	Source Lat:		Source Long:	County	
	Max. Daily Pu	rchase (gal)		Total Volume from Source (gal):	110,000
DE	EP Comments:				

