



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

November 15, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-103303, 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: AUD11CHS
Farm Name: KORTAS, JANEY HANEY
API Well Number: 47-103303
Permit Type: Horizontal 6A Well
Date Issued: 11/15/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

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WW - 6B
(3/13)

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

001 07 225

1) Well Operator: CNX Gas Company, LLC 494458046 Barbour Union Audra
Operator ID County District Quadrangle

2) Operator's Well Number: AUD11CHS Well Pad Name: AUD11HS

3 Elevation, current ground: 1526' Elevation, proposed post-construction: 1524'

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

Other

(b) If Gas: Shallow Deep

Horizontal

5) Existing Pad? Yes or No: No

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

Formation - Marcellus, Depth - 8000', Thickness - 90', Pressure - 4000#

7) Proposed Total Vertical Depth: 8000'

8) Formation at Total Vertical Depth: Marcellus

9) Proposed Total Measured Depth: 16500'

10) Approximate Fresh Water Strata Depths: 95', 120', 220', 580'

11) Method to Determine Fresh Water Depth: Reference offset wells (API #'s 47-001-00353 and 47-001-00329)

12) Approximate Saltwater Depths: 1638'

13) Approximate Coal Seam Depths: 220', 580'

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

15) Does proposed well location contain coal seams directly overlying or adjacent to an active mine? If so, indicate name and depth of mine: No

16) Describe proposed well work: Drill and stimulate new horizontal Marcellus well. Well to be drilled to a TMD of 16500'. Well to be drilled to a TVD of 8000', formation at TVD - Marcellus. If an unexpected void is encountered, plan will be to set casing at a minimum of 30' past void and cement to surface with approved Class A type cement.

17) Describe fracturing/stimulating methods in detail:
The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Siltwater fracturing technique will be utilized on each stage using sand, water, and chemicals.

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18) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): 9.70 Acres

19) Area to be disturbed for well pad only, less access road (acres): 8.20 Acres

103303

AMC Count
5313-

WW - 6B
(3/13)

20)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft.</u>	<u>FOOTAGE: For Drilling</u>	<u>INTERVALS: Left in Well</u>	<u>CEMENT: Fill -up (Cu. Ft.)</u>
Conductor	20"	N	L.S.	81.3#	40'	40'	Sand In
Fresh Water	13 3/8"	N	J-55	54.5#	650'	650'	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"	N	P-110	20#	16500'	16500'	2400 cu. ft w/ 50/50 POZ Lead & Class A Tail
Tubing	2 3/8"	N	J-55	4.7#	7800'	7800'	
Liners							

<u>TYPE</u>	<u>Size</u>	<u>Wellbore Diameter</u>	<u>Wall Thickness</u>	<u>Burst Pressure</u>	<u>Cement Type</u>	<u>Cement Yield</u>
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" & 8 1/2"	0.361	12640	Class A Type	1.26
Tubing	2 3/8"	5 1/2" csg	0.190	7700	-----	-----
Liners						

PACKERS

Kind:	None			
Sizes:	None			
Depths Set:	None			

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21) Describe centralizer placement for each casing string. Conductor - No centralizers used. Fresh Water & Coal - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface. Intermediate - Bow spring centralizers one on the first two joints and every fourth joint until inside Surface casing. Production - Rigid bow spring centralizer on first joint then every 2 joints (free floating) through the lateral and the curve.
 (Note: cementing the 5 1/2" casing completely in open hole lateral and curve.)

22) Describe all cement additives associated with each cement type. Conductor - 2% CaCl2.
Fresh Water/Coal - 2% CaCl2. Intermediate - 2% CaCl2. Production: 2.6% Cement extender, 0.7% Fluid Loss Additive 0.5% High Temperature Retarder, 0.2% Friction Reducer.

23) Proposed borehole conditioning procedures. Conductor - The hole is drilled w/ air and casing is ran in air.
Apart from insuring the hole is clean via air circulation at TD there are no other conditioning procedures. Fresh Water/Coal - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom the casing shoe will be cleared with fresh water and gel prior to cementing. Intermediate - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom the casing shoe will 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 is drilled with synthetic oil base mud and once at TD the 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.

*Note: Attach additional sheets as needed.

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Cement Additives

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

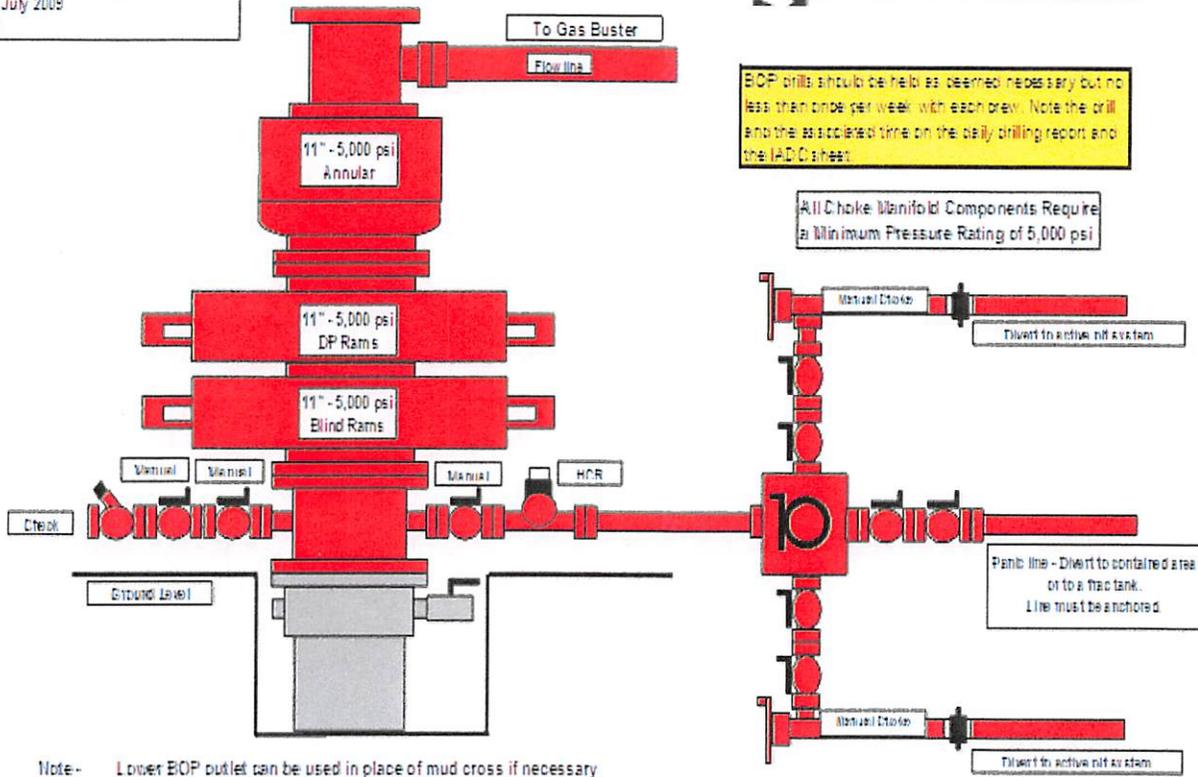
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Waynesburg District
 Minimum BOP Requirements
 July 2008



HORIZONTAL RIG SETUP



BOP drills should be held as deemed necessary but no less than once per week with each crew. Note the drill and the associated time on the daily drilling report and the IADC sheet.

All Choke Manifold Components Require a Minimum Pressure Rating of 5,000 psi

Note- Lower BOP outlet can be used in place of mud cross if necessary
 Choke manifold configuration may vary but must have 2 manual chokes and 5,000 psi rating
 The use of Coflex is acceptable

Remote Controls

Remote controls shall be readily accessible to the driller. Remote controls for all systems shall be capable of closing the preventer. Remote controls systems shall be capable of both opening and closing the preventer.

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WW-9
(3/13)

Page 1 of 4
API Number 47 - 001 -
Operator's Well No. AUD11CHS Well Pad

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046

Watershed (HUC 10) Buckhannon River Quadrangle Audra

Elevation 1526' County Barbour District Union

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes _____ No X

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes _____ No X If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Recycle on other well on same pad or adjacent pads)

Will closed loop system be used? Yes

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

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

Additives to be used in drilling medium? Bactericide, Polymers and Weighting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Meadowfill, Northwestern Landfill, Max Environmental Yukon Landfill, and Bulger Landfill

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I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

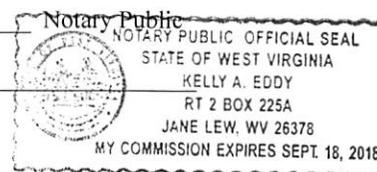
Company Official Signature [Signature]

Company Official (Typed Name) Jeremy Jones

Company Official Title Designated Agent General Manager WV Gas Operations

Subscribed and sworn before me this 14th day of May, 2013

Kelly A. Eddy
My commission expires September 18, 2018



103303

Form WW-9

Operator's Well No. AUD11CHS Well Pad

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 9.08 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Hay or Straw at 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchardgrass	25	Orchardgrass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Landino Clover	10	Landino Clover	10

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: A McCount

Comments: _____

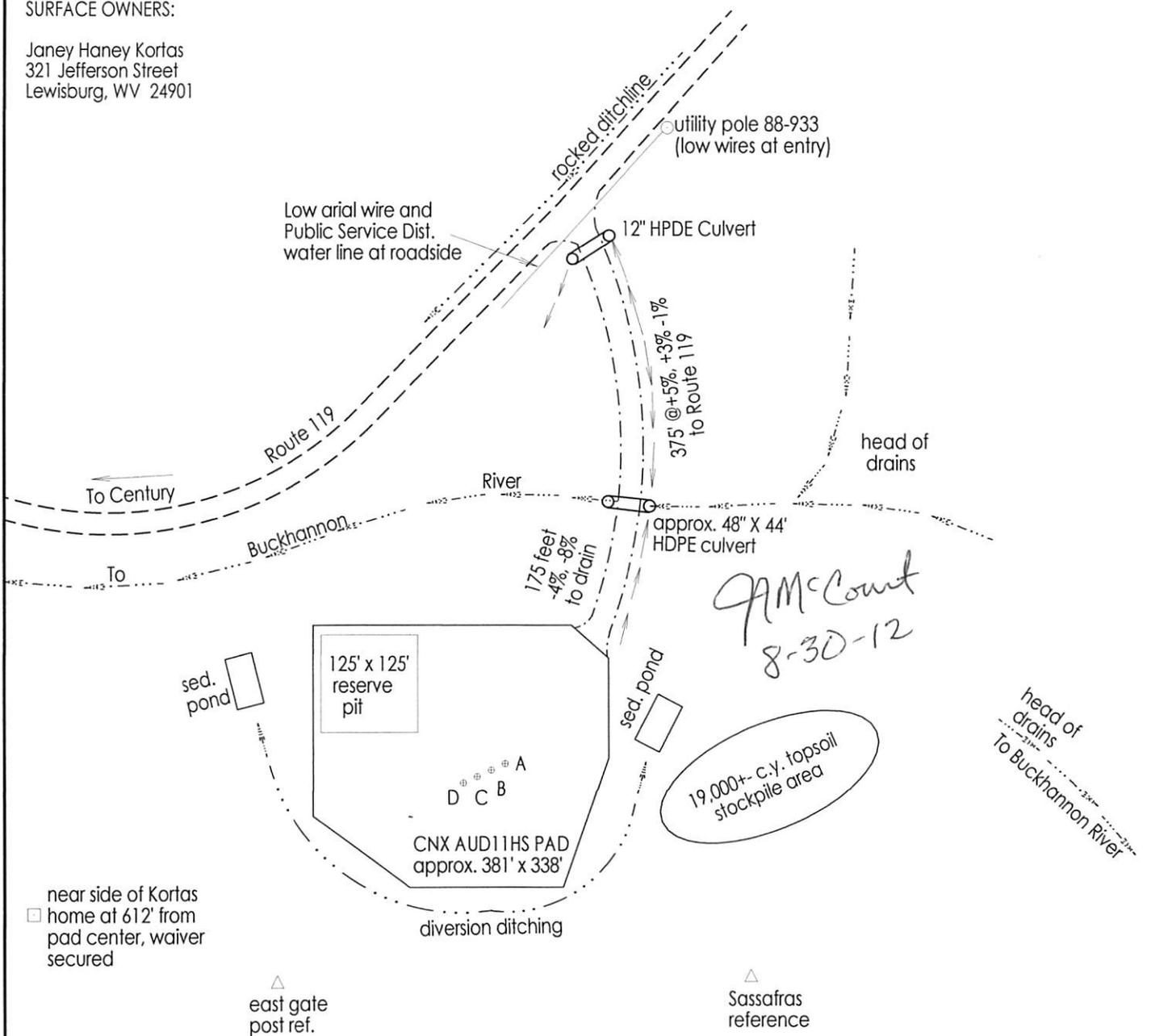
Title: Inspector Date: 5-3-13

Field Reviewed? Yes No

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SURFACE OWNERS:

Janey Haney Kortas
321 Jefferson Street
Lewisburg, WV 24901



JAMCout
8-30-12

near side of Kortas
□ home at 612' from pad center, waiver secured

△ east gate post ref.

△ Sassafras reference



Additional Notes:
This site is in a cleared pasture field with electric and other fencing in place. Topsoil will be stockpiled for use in revegetation.

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prepared by:
LAND SURVEYING SERVICES
21 Cedar Lane
Bridgeport, WV 26330
304-842-2018 or 5762

DRAWINGS TO ACCOMPANY FORM WW-9

CNX Gas Company LLC
P. O. Box 1248
Jane Lew, WV 26378

WATERSHED: _____ Buckhannon River _____

DISTRICT: _____ Union _____ CO. _____ Barbour _____

QUADRANGLE: _____ Audra _____ O.W.N. _____ AUD11HS _____

DATE: _____ August 14, 2012 _____ PG. _____ 1 _____ OF _____ 3 _____



Water Management Plan: Primary Water Sources



WMP-01340

API/ID Number: 047-001-03303

Operator:

Consol Energy - WV

AUD11CHS

Important:

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- Identification of sensitive aquatic life (endangered species, mussels, etc.);
- Quantification of known existing demands on the water supply (Large Quantity Users);
- Minimum flows required by the Army Corps of Engineers; and
- Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

DEP is aware that some intake points will be used for mutiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interepreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov.

APPROVED JUL 2 2 2013

Source Summary

103303

WMP- 01340

API Number:

047-001-03303

Operator:

Consol Energy - WV

AUD11CHS

Stream/River

Source **Tygart Valley River** Barbour Owner: **Consol Energy**

Start Date	End Date	Total Volume (gal)	Max. daily purchase (gal)	Intake Latitude:	Intake Longitude:
6/1/2014	6/1/2014	2,834,000		39.190421	-80.017423

Regulated Stream? Ref. Gauge ID: 3054500 TYGART VALLEY RIVER AT PHILIPPI, WV

Max. Pump rate (gpm): **1,470** Min. Gauge Reading (cfs): **355.01** Min. Passby (cfs) **344.41**

DEP Comments:

Source Detail

103303

WMP-01340

API/ID Number: 047-001-03303

Operator:

Consol Energy - WV

AUD11CHS

Source ID: 20538 Source Name Tygart Valley River
Consol Energy

Source Latitude: 39.190421
Source Longitude: -80.017423

HUC-8 Code: 5020001

Drainage Area (sq. mi.): 931.43 County: Barbour

Anticipated withdrawal start date: 6/1/2014

Anticipated withdrawal end date: 6/1/2014

Endangered Species? Mussel Stream?

Total Volume from Source (gal): 2,834,000

Trout Stream? Tier 3?

Max. Pump rate (gpm): 1,470

Regulated Stream?

Max. Simultaneous Trucks: 0

Proximate PSD? Taylor County PSD

Max. Truck pump rate (gpm)

Gauged Stream?

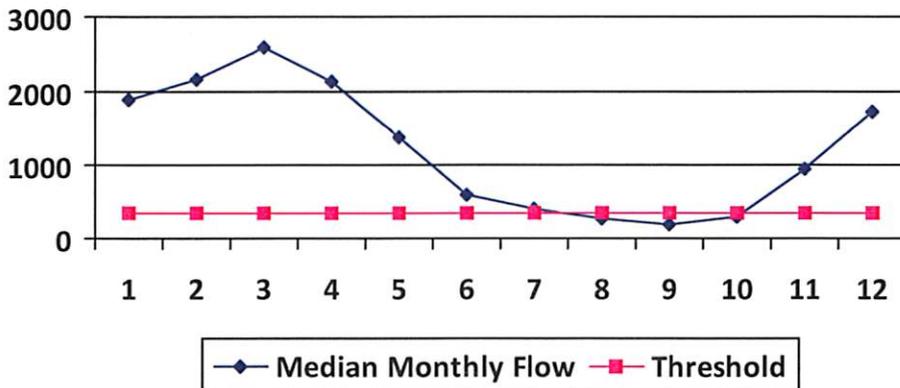
Reference Gaug 3054500 TYGART VALLEY RIVER AT PHILIPPI, WV

Drainage Area (sq. mi.) 914.00

Gauge Threshold (cfs): 341

Month	Median monthly flow (cfs)	Threshold (+ pump)	Estimated Available water (cfs)
1	1,901.06	361.51	1,542.64
2	2,155.51	361.51	1,797.09
3	2,600.93	361.51	2,242.51
4	2,132.23	361.51	1,773.82
5	1,375.48	361.51	1,017.07
6	586.10	361.51	227.69
7	402.01	361.51	43.59
8	280.57	361.51	-77.84
9	177.42	361.51	-181.00
10	286.75	361.51	-71.66
11	950.89	361.51	592.48
12	1,738.34	361.51	1,379.92

Water Availability Profile



Water Availability Assessment of Location

Base Threshold (cfs): 347.50

Upstream Demand (cfs): 10.73

Downstream Demand (cfs): 0.00

Pump rate (cfs): 3.28

Headwater Safety (cfs): 0.00

Ungauged Stream Safety (cfs): 0.00

Min. Gauge Reading (cfs): 355.01

Passby at Location (cfs): 347.50

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



Water Management Plan: Secondary Water Sources



WMP-01340	API/ID Number	047-001-03303	Operator:	Consol Energy - WV
		AUD11CHS		

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:	20539	Source Name	Warder North Impoundment		Source start date:	6/1/2014
					Source end date:	6/1/2014
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

WMP-01340

API/ID Number: 047-001-03303

Operator:

Consol Energy - WV

AUD11CHS

103303

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:	20540	Source Name	Warder South Impoundment		Source start date:	6/1/2014	
					Source end date:	6/1/2014	
		Source Lat:	39.19097	Source Long:	-80.025198	County	Barbour
		Max. Daily Purchase (gal)		Total Volume from Source (gal):	3,570,000		
DEP Comments:							

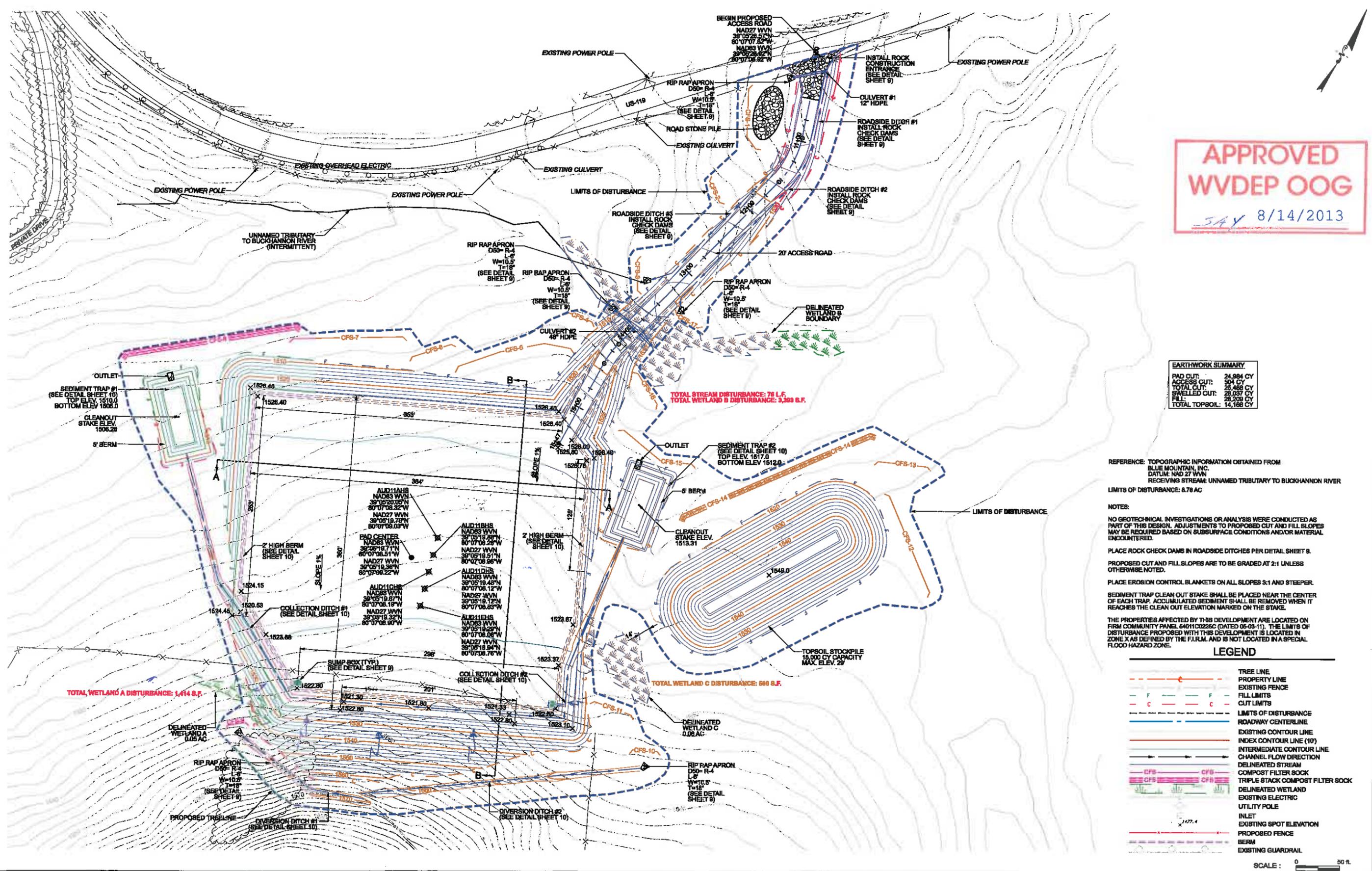
The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-190

Source ID:	20541	Source Name	PHL28 Tank Pad		Source start date:	6/1/2014	
					Source end date:	6/1/2014	
		Source Lat:	39.201747	Source Long:	-80.034491	County	Barbour
		Max. Daily Purchase (gal)		Total Volume from Source (gal):	6,000,000		
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-1332



APPROVED
WVDEP OOG
 SAY 8/14/2013

EARTHWORK SUMMARY

PAD CUT:	24,984 CY
ACCESS CUT:	504 CY
TOTAL CUT:	25,488 CY
SWELLED CUT:	28,037 CY
FILL:	28,209 CY
TOTAL TOPSOIL:	14,186 CY

REFERENCE: TOPOGRAPHIC INFORMATION OBTAINED FROM BLUE MOUNTAIN, INC.
 DATUM: NAD 27 WVN
 RECEIVING STREAM: UNNAMED TRIBUTARY TO BUCKHANNON RIVER
 LIMITS OF DISTURBANCE: 6.78 AC

NOTES:
 NO GEOTECHNICAL INVESTIGATIONS OR ANALYSIS WERE CONDUCTED AS PART OF THIS DESIGN. ADJUSTMENTS TO PROPOSED CUT AND FILL SLOPES MAY BE REQUIRED BASED ON SUBSURFACE CONDITIONS AND/OR MATERIAL ENCOUNTERED.
 PLACE ROCK CHECK DAMS IN ROADSIDE DITCHES PER DETAIL SHEET 9.
 PROPOSED CUT AND FILL SLOPES ARE TO BE GRADED AT 2:1 UNLESS OTHERWISE NOTED.
 PLACE EROSION CONTROL BLANKETS ON ALL SLOPES 3:1 AND STEEPER.
 SEDIMENT TRAP CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES THE CLEAN OUT ELEVATION MARKED ON THE STAKE.

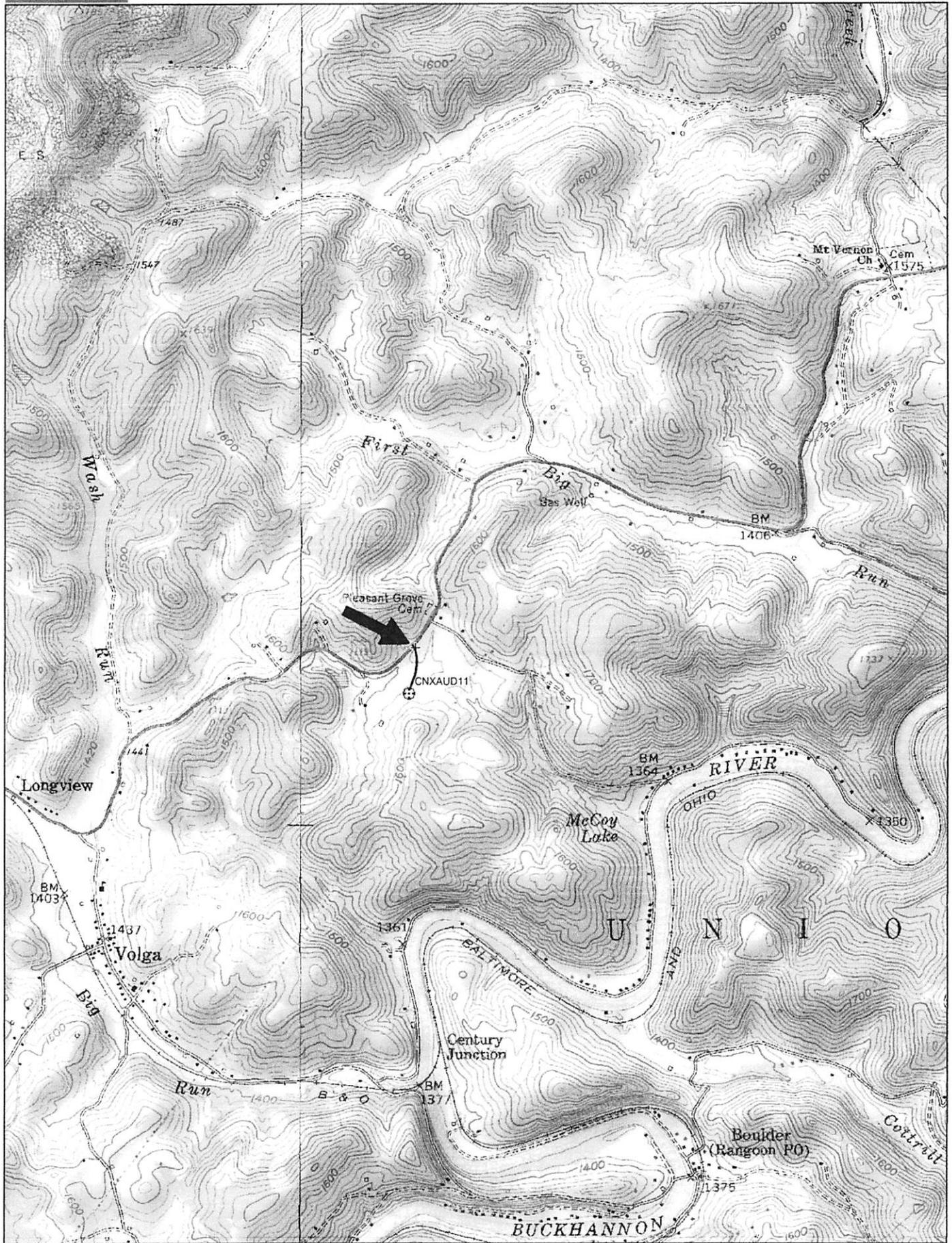
THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM COMMUNITY PANEL 64011C0225C (DATED 06-03-11). THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT IS LOCATED IN ZONE X AS DEFINED BY THE F.I.R.M. AND IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE.

LEGEND

	TREE LINE
	PROPERTY LINE
	EXISTING FENCE
	FILL LIMITS
	CUT LIMITS
	LIMITS OF DISTURBANCE
	ROADWAY CENTERLINE
	EXISTING CONTOUR LINE
	INDEX CONTOUR LINE (10')
	INTERMEDIATE CONTOUR LINE
	CHANNEL FLOW DIRECTION
	DELINEATED STREAM
	COMPOST FILTER SOCK
	TRIPLE STACK COMPOST FILTER SOCK
	DELINEATED WETLAND
	EXISTING ELECTRIC
	UTILITY POLE
	INLET
	EXISTING SPOT ELEVATION
	PROPOSED FENCE
	BERM
	EXISTING GUARDRAIL

SCALE: 0 50 ft.

CAD File No. _____
 T.M. Datum _____
 J.M. Checked _____
 B.M. Approved _____
 1"=100' Scale _____
 MAY 2013 Date _____
 122804 Project No. _____
 CHX GAS COMPANY LLC
 Dieffenbach & Hritz
 Morgantown, WV
 AUD11HS
 PROPOSED SITE PLAN
 5
 Drawing No. _____



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TN
 MN (8.7"W)

JMK Count
 8-30-12

