



**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

April 03, 2014

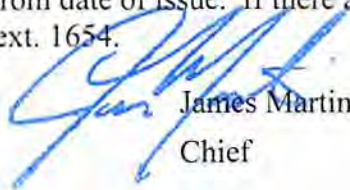
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5500154, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 11225 (HAWLEY COAL 21)  
Farm Name: TIOGA LUMBER CO.  
**API Well Number: 47-5500154**  
**Permit Type: Plugging**  
Date Issued: 04/03/2014

# PERMIT CONDITIONS

West Virginia Code § 22-6-11 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

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date \_\_\_\_\_, 20\_\_\_\_  
2) Operator's  
Well No. 11225  
3) API Well No. 47-055-00154

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_/ Gas x/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production x or Underground storage \_\_\_\_) Deep \_\_\_\_/ Shallow x

5) Location: Elevation 3098 ft. Watershed Sugar Camp  
District Rock County Mercer Quadrangle Odd, WV

6) Well Operator CNX Gas Company LLC 7) Designated Agent Jeremy Jones  
Address 2481 John Nash Blvd Address One Dominion Drive  
Bluefield, WV 24701 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gary Kennedy Name L&D Well Services  
Address PO Box 268 Address PO Box 1192  
Nimitz, WV 25978 Vansant, VA 24656

10) Work Order: The work order for the manner of plugging this well is as follows:  
see attached plugging procedures

Received

FEB 10 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gary Kennedy Date 2/4/2014

04/04/2014

API 47-55-00154 Plugging Procedure

1. Verify total depth 4727'.
2. Run free-point survey on 4-1/2" casing.
3. Run tubing to TD. Set plug of expanding cement from established TD to approximately 50' below free point, utilizing a 100' gel spacer at approximately the half-way point of the wellbore.
4. Cut 4-1/2" casing at free-point.
5. Cement through 4-1/2" csg. while pulling 4-1/2", from top of bottom plug to approximately 100' below the 8-5/8" casing shoe. (Approx. 1140') Pull remaining 4-1/2" out of well.
- NOT NEEDED 6. ~~Run free-point survey on 8-5/8" casing.~~ 8-5/8" was CTS
7. Run tubing to previous cement top (1140'). Cement across the 8-5/8" shoe to a minimum of 50' above shoe, bringing cement top to approximately 50' below the 8-5/8" free point or to surface, whichever is necessary.
- NOT NEEDED 8. ~~If necessary, cut and pull free 8-5/8" casing.~~ DO NOT NEED TO CUT
9. Repeat free-point and cutting procedures for 11-3/4" if 8-5/8" is cut and pulled. ONLY 23' OF 11 3/4", PULL OUT OF HOLE. & GROUT BEHIND 8 5/8" CASING
10. ~~Cement from 50' below 11-3/4" shoe to surface.~~
11. Install 7" X 4' steel monument with API# and Date.

NOTE: A 100' gel spacer will be placed at approximately half the well depth. Also, Expanding cement will be utilized throughout the entire cementing process.

ALL PLUGS MUST BE A MINIMUM OF 100' CLASS A CEMENT W/ NO MORE THAN 3% CaCl<sub>2</sub> AND NO OTHER ADITIVES.

*WLL*

Received

FEB 10 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

04/04/2014

OK *gmm*  
4/2/14

State of West Virginia  
 Division of Environmental Protection  
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: HAWLEY COAL MINING CORP. Operator Well No.: HAWLEY #21-662S

LOCATION: Elevation: 3,098.00 Quadrangle: ODD

District: ROCK County: MERCER  
 Latitude: 9100 Feet South of 37 Deg. 32Min. 30 Sec.  
 Longitude 10540 Feet West of 81 Deg. 10 Min. Sec.

Company: STONEWALL GAS COMPANY  
 909 E. MAIN ST., P.O. BOX 1575  
 RICHMOND, VA 23213-0000

Agent: JESSE A. SHELL

Inspector: RODNEY DILLON  
 Permit Issued: 07/22/93  
 Well work Commenced: 09-02-93  
 Well work Completed: 09-11-93  
 Verbal Plugging  
 Permission granted on: \_\_\_\_\_  
 Rotary  Cable \_\_\_\_\_ Rig  
 Total Depth (feet) 4727  
 Fresh water depths (ft) 95, 319,  
 665  
 Salt water depths (ft) \_\_\_\_\_  
 None Reported  
 Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): 95, 437, 500

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	23	23	NONE
8 5/8	1040	1040	255 SKS
4 1/2	4690	4690	448 SKS



OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 4570  
 Gas: Initial open flow 30 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 1302 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 1 Hours  
 Static rock Pressure 620 psig (surface pressure) after 168 Hours

Second producing formation Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: STONEWALL GAS COMPANY  
 By: *[Signature]* RAY M. FREAR, JR.  
 Date: NOVEMBER 18, 1993 PETROLEUM ENGINEER

1 STAGES Water FRAC 9/16/93 DATE

ZONES	PERFS	HOLES	BBL	BP	ISIP
Weir	4570-4590'	13	700	2200	0

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
SAND	BROWN	SOFT	0	60	
SANDY SHALE	GRAY	SOFT	60	95	
COAL	BLACK	SOFT	95	98	GAS CK 2530 NO SHOW
SANDY SHALE	GRAY	HARD	98	110	GAS CK 2933 NO SHOW
SAND	GRAY	HARD	110	330	3271 NO SHOW
SANDY SHALE	GRAY	SOFT	330	437	3708 10/10 1" W/W
COAL	BLACK	SOFT	437	441	3924 ODOR
SAND	GRAY	SOFT	441	495	4077 8/10 1" W/W
SANDY SHALE	GRAY	HARD	495	500	4200 8/10 1" W/W
COAL	BLACK	SOFT	500	505	4603 8/10 1" W/W
SANDY SHALE	GRAY	SOFT	505	662	
SAND	BROWN	SOFT	662	735	TD 8/10 1" W/W
SANDY SHALE	BROWN	HARD	735	770	
SHALE RR	BROWN	HARD	770	810	
SANDY SHALE	BROWN	HARD	810	1050	
SHALE	GRAY	SOFT	1050	1215	
SAND	GRAY	SOFT	1215	1290	
SANDY SHALE	GRAY	SOFT	1290	1580	
SAND	BROWN	HARD	1580	1615	
SANDY SHALE	GRAY	HARD	1615	1940	
SAND	GRAY	HARD	1940	1960	
SANDY SHALE	BROWN	SOFT	1960	2300	
SAND	BROWN	SOFT	2300	2435	
SANDY SHALE	GRAY	HARD	2435	2490	
SAND	GRAY	SOFT	2490	2690	
SANDY SHALE	BROWN	SOFT	2690	2760	
SAND	BROWN	HARD	2760	2885	
SANDY SHALE	GRAY	SOFT	2885	2956	
SAND	GRAY	SOFT	2956	3080	
SANDY SHALE	GRAY	HARD	3080	3190	
B. LIME	GRAY	SOFT	3190	4175	
RED SAND	BROWN	SOFT	4175	4200	
SHALE	BROWN	HARD	4200	4455	
SAND	BROWN	HARD	4455	4590	
SANDY SHALE	GRAY	SOFT	4590	4727	
TD			4727		

**RECEIVED**  
 Office of Oil & Gas  
 Permitting  
**MAY 18 2001**  
 WV Division of  
 Environmental Protection

5500154A

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number \_\_\_\_\_  
11225  
3) API Well No.: 47 - 055 - 00154

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Pardee &amp; Curtain Realty LLC</u>	Name <u>none</u>
Address <u>340 McCorkle Ave. Suite 300 ✓</u>	Address _____
<u>Charleston, WV 25314</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pardee &amp; Curtain Realty LLC ✓</u>
_____	Address <u>340 McCorkle Ave.</u>
_____	<u>Charleston, WV 25314</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 268 ✓</u>	Name <u>none</u>
<u>Nimitz, WV 25978</u>	Address _____
Telephone <u>304-382-8402</u>	_____

**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

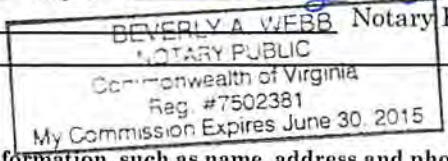
Well Operator CNX Gas Company LLC  
 By: Ed Fanning  
 Its: Attorney-in-Fact  
 Address 2481 John Nash Blvd  
Bluefield, WV 24701  
 Telephone 304-327-6568

**Received**  
**FEB 10 2014**

Office of Oil and Gas  
WV Dept. of Environmental Protection

Subscribed and sworn before me this 6th day of February 2014

My Commission Expires 6/30/14 Dorey Webb Notary Public



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

04/04/2014

5500154P

7009 0060 0000 3797 3496

**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

~~11225, 11189~~ 11199 USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: LTBLL Company  
249 Blue Jay Drive  
Blue Jay, WV 25813

PS Form 3800, August 2006 See Reverse for Instructions

7009 0060 0000 3797 3472

**CERTIFIED MAIL RECEIPT**  
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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: West Virginia Conservation Agency  
Gus R. Douglass Agricultural Center  
1900 Kanawha Blvd East  
Charleston, WV 25305

PS Form 3800, August 2006 See Reverse for Instructions

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FEB 10 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

7009 0060 0000 3797 3526

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For delivery information visit our website at www.usps.com

11225, 11189 USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: Pardee & Curtain Realty LLC  
340 McCorkle Ave. Suite 300  
Charleston, WV 25314

PS Form 3800, August 2006 See Reverse for Instructions

7009 0060 0000 3797 3519

**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

11225, 11189, 11199 USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: Gary Kennedy  
PO Box 268  
Nimitz, WV 25978

PS Form 3800, August 2006 See Reverse for Instructions

7009 0060 0000 3797 3205

**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

WV 2013 Annual Insp. Report

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: WV Division of Environmental Protection  
Office of Oil and Gas  
Attn: Permitting  
601 57th Street  
Charleston, WV 25304

PS Form 3800, August 2006 See Reverse for Instructions

04/04/2014



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 Company LLC OP Code 494458046

Watershed Sugar Camp Branch Quadrangle Odd, WV

Elevation 3098 ft. County Mercer District Rock

Description of anticipated Pit Waste: water for plugging of abandoned gas well.

Will a synthetic liner be used in the pit? N/A *JK*

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 2D0550319 )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_ )

Proposed Work For Which Pit Will Be Used:

- Drilling
- Swabbing
- Workover
- Plugging
- Other (Explain a pumper truck with flowback tank will be used in lieu of a pit.)

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 *Ed Fanning*

Company Official (Typed Name) Ed Fanning //

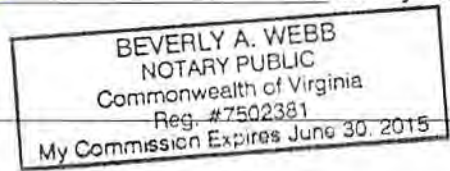
Company Official Title Supervisor

Subscribed and sworn before me this 6<sup>th</sup> day of February, 20 14

*Beverly A. Webb*

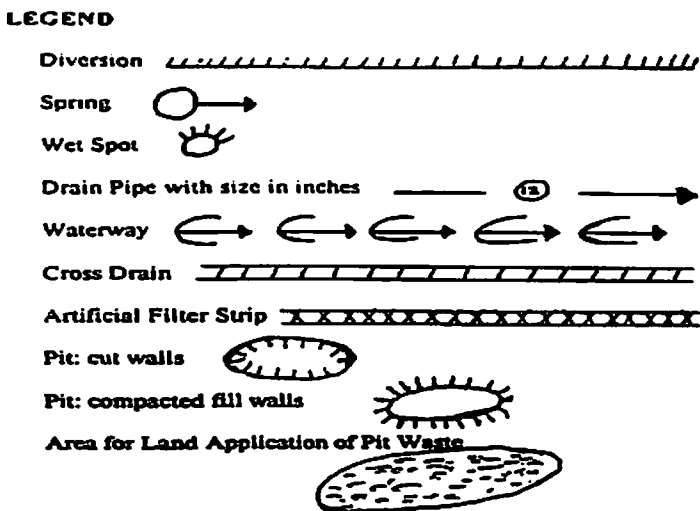
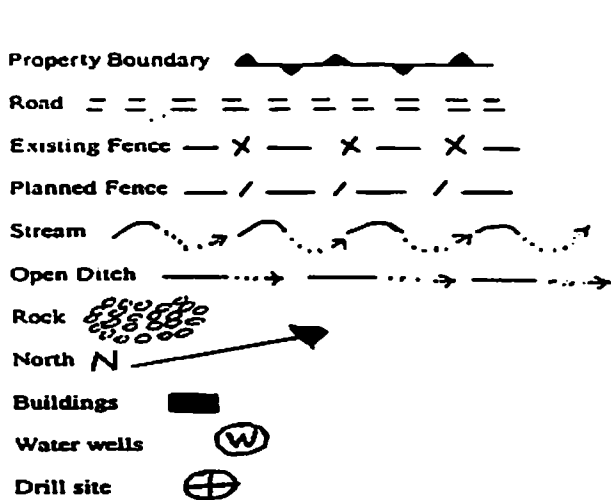
Notary Public

My commission expires 6/30/14



Received

FEB 10 2014



Proposed Revegetation Treatment: Acres Disturbed ? Prevegetation pH 6.5  
 Lime based on pH Tons/acre or to correct to pH 7.0  
 Fertilizer (10-20-20 or equivalent) 550 lbs/acre (500 lbs minimum)  
 Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
Orchard grass	25	same as Area I	
Birdsfoot trefoil	15		
Lidino clover	10		

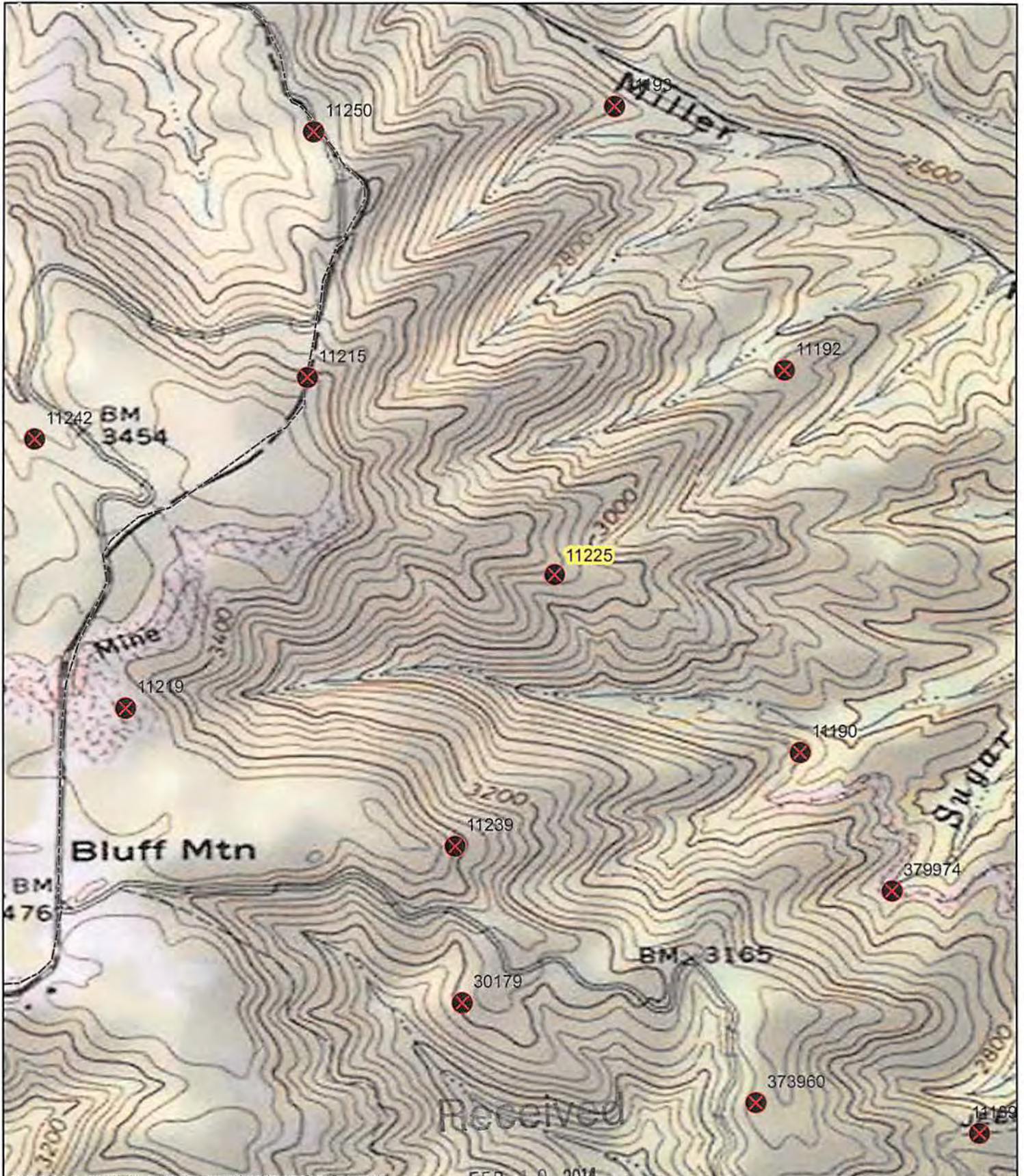
Attach:  
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]  
 Comments: \_\_\_\_\_

Received

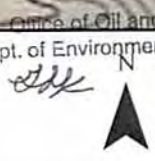
Title: Inspector Date: 2/4/14  
 Field Reviewed?  Yes  No



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Received  
FEB 10 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection



Date: 1/24/2014		Prepared By: KK	
Revisions:		Approved By: BS	
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**CONSOL ENERGY**

PROPOSED PLUGGING  
WELL NUMBER 11225  
API# 47-055-00154  
GE 047042014 MAP

55 00154 P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-055-00154 WELL NO.: 11225

FARM NAME: Hawley Coal Mining Corp.

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: Mercer DISTRICT: Rock

QUADRANGLE: Odd, WV

SURFACE OWNER: Pardee & Curtain Realty LLC

ROYALTY OWNER: Pardee & Curtain Realty LLC

UTM GPS NORTHING: 4,152,221 m

UTM GPS EASTING: 482,086 m GPS ELEVATION: 968 m 3098 Ft.

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

- Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

J. M. McCoy  
Signature

Production Coord  
Title

2-6-2014  
Date

Received

FEB 10 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

04/04/2014

5500154P



CNX Gas Virginia Operations  
627 Claypool Hill Mall Road  
Cedar Bluff, VA 24609

Bob Staton, MS, PG  
Permitting Agent  
phone: 276-596-5137

February 7, 2014

Ms. Kay Holtsclaw  
West Virginia DEP  
**Office of Oil and Gas**  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345

RE: API # 047-055-00137  
047-055-00128  
047-055-00154

Dear Ms. Holtsclaw;

CNX Gas Co. LLC hereby submits these applications for plugging and abandonment of the above referenced wells. If you need any additional information, please contact me.

Sincerely,

Bob Staton  
Permitting Agent

Received

FEB 11 2014

Office of Oil and Gas  
West Virginia Department of Environmental Protection

04/04/2014