



**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 24, 2014

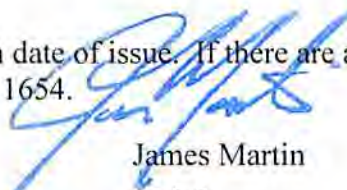
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4701417, 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: 5496  
Farm Name: LANDGRAFF REALTY CO.  
**API Well Number: 47-4701417**  
**Permit Type: Plugging**  
Date Issued: 04/24/2014

**Promoting a healthy environment.**

**04/25/2014**

## 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. 5496  
3) API Well No. 47-047-01417

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 2303 ft. Watershed Clark Branch  
District Browns Creek 3 County McDowell 47 Quadrangle Keystone, WV 420

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 work order procedures

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APR - 7 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 [Signature] Date 3/20/14

API 47-47-01417 Plugging Procedure

1. Verify total depth 4350'.
2. Run free-point survey on 4-1/2" casing. Drilling report states top of cement is 2075' <sup>or</sup> per previous bond log.
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.   
 CEMENT w/ CLASS A FROM TD  
 TD 2100' WHICH IS ABOVE HIGHEST  
 PERFORATION @ 2152' (UPPER MEXON)  
 THEN USE GEL SPACER (100') BETWEEN PERFORATIONS  
 OR FROM 2100' TO 2000'.
5. Cement through 4-1/2" csg. while pulling 4-1/2", from top of bottom plug to approximately 100' below the 7" casing shoe. (Approx. 925') Pull remaining 4-1/2" out of well.
6. Bond log 7" casing.
7. Run tubing to previous cement top (925'). Cement across the 7" shoe to a minimum of 50' above shoe, bringing cement top to approximately 50' below the 7" free-point or to surface, whichever is necessary.
8. If necessary, cut and pull free 7" casing.   
 (MAKE SURE COAL FROM  
 265' - 645' IS COVERED  
 BY CEMENT PLUG.)
9. Repeat bond log and cutting procedures for 9-5/8" if 7" is cut and pulled.
10. Cement from 50' below 9-5/8" 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.

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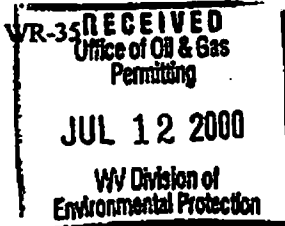
\* 7" LIKELY CEMENTED TO SURFACE

- 4 1/2" LIKELY CEMENTED BELOW 7" CASING SEAT. ~ (2075')

*[Signature]*  
3/20/14

04/25/2014

4704701417f



DATE: 01/03/00  
API #: 47-47-01417

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

Reviewed: \_\_\_\_\_

Well Operator's Report of Well Work

Farm name: LandGRAFF Realty Co. Operator Well No.: WEWV05496

LOCATION: Elevation: 2343' Quadrangle: KEYSTONE

District: Browns Creek County: McDOWELL  
Latitude: 9615 Feet South of 37 Deg. 27 Min. 30 Sec.  
Longitude 11,260 Feet West of 81 Deg. 25 Min. 00 Sec.

Company: CNG Producing Co.

	Casing & Tubing	Used In drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>Rt. 2 Box 690</u>				
<u>Bridgeport, WV 26330</u>	<u>13.75"</u>	<u>15'</u>	<u>15'</u>	<u>SAND IN</u>
Agent: <u>RODNEY J. BIGGS</u>	<u>9"</u>	<u>257'</u>	<u>257'</u>	<u>GRAVEL</u>
Inspector: <u>OPHIE HELMICK</u>	<u>7"</u>	<u>825'</u>	<u>825'</u>	<u>145 SKS</u>
Date Permit Issued: <u>01/03/2000</u>	<u>4 1/2"</u>	<u>4312'</u>	<u>4312'</u>	<u>115 SKS</u>
Date Well Work Commenced: <u>02/04/2000</u>				
Date Well Work Completed: <u>02/19/2000</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary X Cable <u>Rig</u>				
Total Depth (feet): <u>4350'</u>				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N.</u>				
Coal Depths (ft.): <u>265', 338', 349', 645'</u>				

4186-4206' (24)  
3694-3698' (12)  
2634-2642' (16)  
2320-2328' (16)  
2152-2160' (16)

OPEN FLOW DATA

Producing formation WEIR Pay zone depth (ft) \_\_\_\_\_  
Big Lime  
MAXTON  
MIDDLE MAXTON  
UPPER MAXTON  
Gas: Initial open flow 94 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 822 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 380 psig (surface pressure) after 12 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

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Office of Oil and Gas  
WV Dept. of Environmental Protection

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.

04/25/2014

Mc Dowell

WEWV05496

02/04/00 SPUD WELL  
 02/04/00 T.D. 6 3/8" HOLE AT 4350'  
 02/14/2000 PERFED AND FRACED AS FOLLOWS:  
 WEIR, 4188 - 4208', 24 HOLES, B.D. 570#/, AVG RATE 18 BPM, AVG PRESS  
 42#, 510 BBLs, TOT SAND 38,800#, ISIP 0'  
 BIG LIME, 3694 - 3698', 12 HOLES, B.D. 2070#/, AVG RATE 11 BPM, AVG PRESS  
 1560#, 110 BBLs, 2,000# GAL ACID, ISIP 1050#  
 02/15/2000 PERFORATED AND FRACED AS FOLLOWS:  
 MAXTON, 2834 - 2842', 16 HOLES, B.D. 340#/, AVG RATE 20 BPM, AVE PRESS  
 543#, 380 BBLs, TOT SAND 25,100#, ISIP = 208#  
 MIDDLE MAXTON, 2320 - 2328', 16 HOLES, B.D. 2100#/, AVG RATE 15 BPM,  
 AVG PRESS 1828#, 338 BBLs, TOT SAND 20,500#, ISIP = 324#  
 UPPER MAXTON, 2152 - 2160', 16 HOLES, B.D. 2170#/, AVG RATE 12 BPM, AVG  
 PRESS 598#, 322 BBLs, TOT SAND, 19,000#, ISIP = 324#  
 02/22/2000 SICP = 380#/. O.F. = 822 MCF.  
 03/24/2000 T.I.L. 350#/.  
 F.O.F. - 822 MCFD / 380# (2/18/00)

## FORMATION TOPS AND BOTTOMS

Ravenscliff	1455 - 1716'
Upper Maxton	2308 - 2398'
M. Maxton	<del>2524</del> - 2852'
L. Maxton	2748 - 2847'
B. Lime	2908 - 3003'
B. Lime	3098 - 3929'
Weir	4180 - 4231'

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Office of Oil and Gas  
WV Dept. of Environmental Protection

04/25/2014

4704701417P

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number \_\_\_\_\_  
5496  
3) API Well No.: 47 - 047 - 01417

**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:  
(a) Name Landgraff Realty  
Address PO Box 615  
Welch, WV 24801  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Gary Kennedy  
Address PO Box 268  
Nimlitz, WV 25978  
Telephone 304-382-8402

5) (a) Coal Operator  
Name Mechel North America  
Address 818 North Eisenhower Drive  
Beckley, WV 25801  
(b) Coal Owner(s) with Declaration  
Name Landgraff Shareholders LLC  
Address PO Box 615  
Welch, WV 24801  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

**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.

Received

Well Operator CNX Gas Company LLC  
By: [Signature]  
Its: Attorney-in-Fact  
Address 2481 John Nash Blvd  
Bluefield, WV 24701  
Telephone 304-323-6568

Office of Oil and Gas  
WV Dept. of Environmental Protection

Subscribed and sworn before me this 27<sup>th</sup> day of March, 2015  
Bruce Welch  
My Commission Expires June 30, 2015

BEVERLY W. WEBB  
NOTARY PUBLIC  
Commonwealth of Virginia  
Reg. #7502381  
My Commission Expires June 30, 2015

**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).

04/25/2014

4704701417P

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 City, S:

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To: Landgraff Realty  
 Sent: PO Box 615  
 Street or PO: Welch, WV 24801  
 City, S:

PS Form 3800, August 2006 See Reverse for Instructions

7013 2630 0001 5770 4099

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 Sent: 5260 Irwin Road  
 Street or PO: Huntington, WV 25705-3247  
 City, S:

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Received  
APR 25 2014

WV Dept. of E...  
04/25/2014



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 26 PO Box 821  
 27 Spencer, WV 25276

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25 The Bank One Trustee for Shepard Heirs  
 26 PO Box 1113  
 27 The Charleston, WV 25324

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25 Eastern Associated Coal Corp.  
 26 PO Box 1233  
 27 Charleston, WV 25324

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25 Penn Virginia Oil and Gas Corp.  
 26 PO Box 905820  
 27 Charlotte, NC 28290-5820

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 26 HC 69 Box 188  
 27 Herndon, WV 24726

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25 Bonnie J. Corporation  
 26 PO Box 105  
 27 Drennen, WV 26667

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 26 PO Box 268  
 27 Nimitz, WV 25978

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 26 121 Uffershill Drive  
 27 Beckley, WV 25801

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25 Mark Kinder  
 26 Pochontas Land Corp.  
 27 PO Box 1517  
 28 Bluefield, WV 24701

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25 Mechel North America  
 26 818 North Eisenhower Drive  
 27 Rock Hill, WV 25081

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 26 PO Box 615  
 27 Welch, WV 24291

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25 Alawest, Inc.  
 26 PO Box 920  
 27 Weir, WV 24801

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Office of Oil and Gas  
WV Dept. of Environmental Protection

04/25/2014

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 Clark Branch Quadrangle Keystone, WV

Elevation 2343 ft. County McDowell District Browns Creek

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. *OK*)

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 Attorney-in-Fact

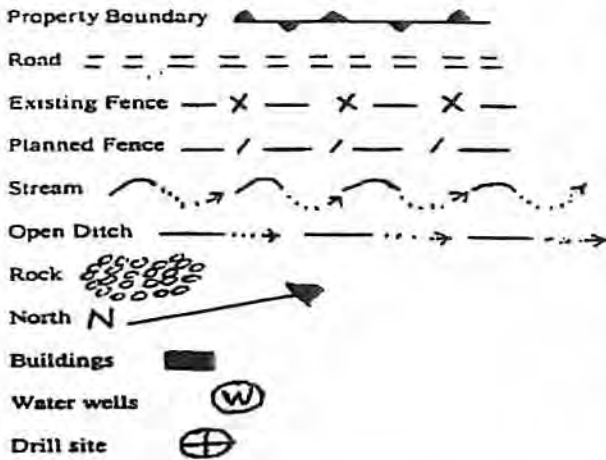
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Subscribed and sworn before me this 27<sup>th</sup> day of March, 20 14 Office of Oil and Gas  
WV Dept. of Environmental Protection

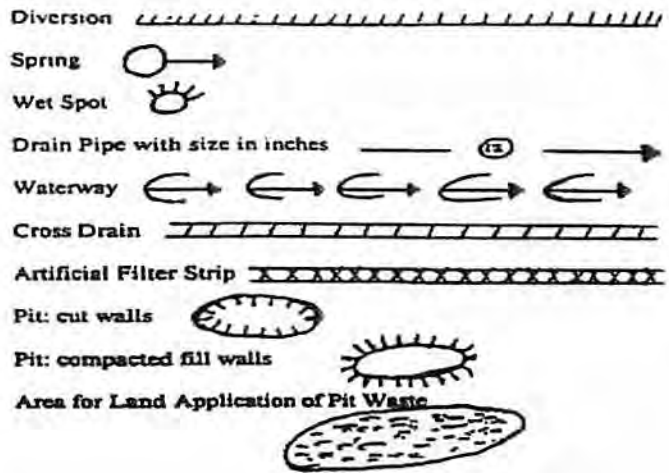
*Beverly A. Webb* Notary Public

My commission expires June 30, 2015

BEVERLY A. WEBB  
NOTARY PUBLIC  
State of West Virginia  
Commission Expires June 30, 2015



**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed 2.0 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.

Received

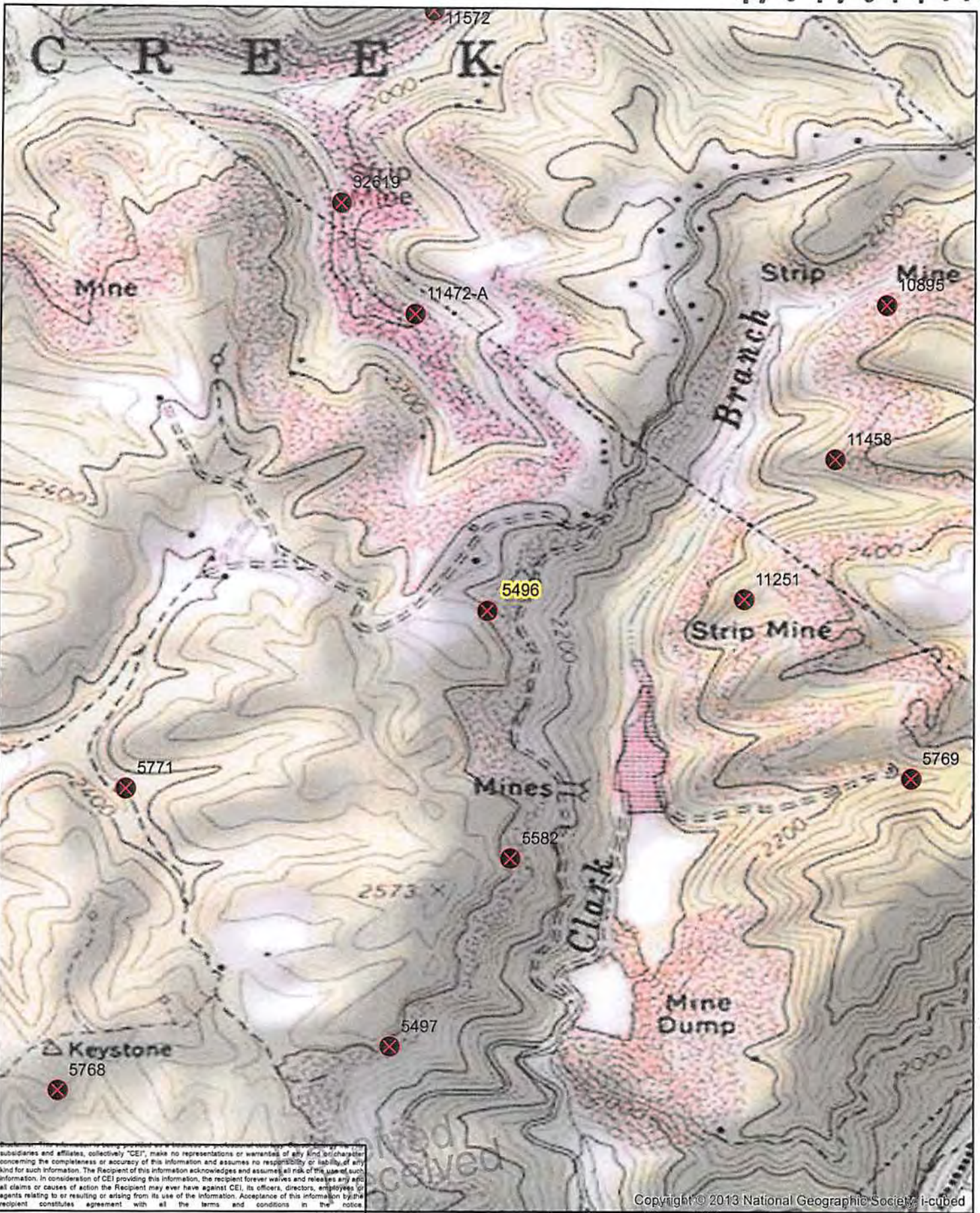
Plan Approved by: [Signature]

Comments: \_\_\_\_\_

Office of Oil and Gas  
WV Dept. of Environmental Protection

Title: Inspector Date: 3/28/14

Field Reviewed?  Yes  No



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APR - 7 2014  
 Office of Oil and Gas  
 WV Dept. of Environmental Protection  
 Office of Oil and Gas  
 WV Dept. of Environmental Protection

0 500 1,000 Feet

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

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**CONSOL ENERGY**  
 PROPOSED PLUGGING  
 WELL NUMBER 5496  
 API# 47-047-01417  
 GENERAL LOCATION MAP

042562014

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-047-01417 WELL NO.: 5496

FARM NAME: Landgraff Realty Company

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: McDowell DISTRICT: Browns Creek

QUADRANGLE: Keystone, WV

SURFACE OWNER: Landgraff Realty Company

ROYALTY OWNER: Landgraff Realty Company

UTM GPS NORTHING: 4,142,867 m

UTM GPS EASTING: 459,728 m GPS ELEVATION: 732 m 2303 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 X : Post Processed Differential X

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.

[Signature]  
Signature

Production Coord.  
Title

3-20-14  
Date

Received

APR - 1 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

4704701417P



627 Claypool Hill Mall Road  
Cedar Bluff, VA 24609

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

April 4, 2014

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

RE: Plugging Applications      109-01382      047-00178  
   047-01417      109-02750  
   067-00701      047-00394  
   005-02008

Dear Ms. Hankins;

CNX Gas Co. LLC hereby submits the enclosed plugging applications for several wells. Please let me know if you need any additional information.

Sincerely,

Bob Staton  
Permitting Agent

enclosures

Received

APR - 7 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

04/25/2014