



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. Huffinan, Cabinet Secretary
www.dep.wv.gov

April 24, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-6700701, 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: 11070 (FLYNN 3 470-S)
Farm Name: BONNIE J. CORP.
API Well Number: 47-6700701
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

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. 11070
3) API Well No. 47-067-00701

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 1210 ft. Watershed Jerry Fork of Peters Creek
District Grant ✓ County Nicholas 67 Quadrangle Gilboa, WV 364

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 Ed Gainer Name L&D Well Services
Address PO Box 821 Address PO Box 1192
Spencer, WV 25276 Vansant, VA 24656

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

See changes

Received

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  Date 3/25/14

API 47-67-00701 Plugging Procedure

★ 8 5/8" CTS (PROBABLE)

4 1/2" CEMENT TO INSIDE OF 8 5/8"

1. Verify total depth 1800'.
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. 853') Pull remaining 4-1/2" out of well.
6. Run free-point survey on 8-5/8" casing.
7. Run tubing to previous cement top (853'). 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.
- ★ 8. If necessary, cut and pull free 8-5/8" casing.
9. ~~Repeat free-point and cutting procedures for 11-3/4" if 8-5/8" is cut and pulled.~~
10. ~~Cement from 50' below 11-3/4" shoe to surface.~~
11. Install 7" X 4' steel monument with API# and Date.

Cement across coal @ 445'
(495' - 395')

GEL FROM
(395' - 200')

CEMENT FROM
(200' - SURFACE)

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.

Received

APR - 7 2014

Office of Oil and Gas
Wyo Dept. of Environmental Protection

★ CEMENT Plug 1800' - 900'
★ GEL SPACER 900' - 800'

1753 (8 5/8) 125 sks
4 1/2 1728 220 sks

Flow 1210

1800 TD

50
100
125 } H₂O

125 coal
445

04/25/2014

Farm name: CONSOLIDATION RAIL CORP. Operator Well No.: FLYNN 3470-S

LOCATION: Elevation: 1310.22 Quadrangle: GILBOA

4706700701P

District: GRANT County: NICHOLAS
Latitude: 4230 Feet South of 38 Deg. 17Min. 30 Sec.
Longitude: 6030 Feet West of 80 Deg. 57 Min. 30 Sec.

Company: STONEMALL GAS COMPANY
909 E. MAIN ST. P.O. BOX 1575
RICHMOND, VA 23219-1575

Agent: JESSE A. SHELL

Inspector: CRAIG DUCKWORTH
Permit issued: 09/18/90
Well work commenced: 12/29/90
Well work completed: 01/03/91
Verbal Plugging
Permission granted on: _____
Rotary X Cable Rig
Total Depth (feet) 1800
Fresh water depths (ft) 50
105, 125
Salt water depths (ft) _____
NONE REPORTED
Is coal being mined in area (Y/N)?
Coal Depths (ft): 125, 445

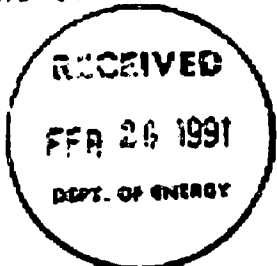
Casing 6 Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	753	753	190 SKS
6 1/2	1728	1728	220 SKS

OPEN FLOW DATA

Producing formation BIG LIME Pay zone depth (ft) 1583
 Gas: Initial open flow 29 MCF/d Oil: Initial open flow 0 bbl/d
 Final open flow 239 MCF/d Final open flow 0 bbl/d
 Time of open flow between initial and final tests 1 Hours
 Static rock Pressure 500 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 CHANGES, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.



For: STONEMALL GAS COMPANY
By: [Signature] RAY M. FREAR, JR.
Date: FEBRUARY 21, 1991 PETROLEUM ENGINEER

10701

Received

APR 27 2014

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
FILL	BROWN	SOFT	0	18	GAS CK 960 10/10 1" W/W
SAND	BROWN	SOFT	18	125	GAS CK 1267 2/10 1" W/W
COAL	BLACK	SOFT	125	128	
SAND	GRAY	SOFT	128	330	GAS CK 1389 4/10 1" W/W
SANDY-SHALE	GRAY	HARD	330	445	GAS CK 1544 4/10 1" W/W
COAL	BLACK	HARD	445	498	
SAND	GRAY	HARD	448	605	GAS CK 1800 8/10 1" W/W
SANDY SHALE	GRAY	HARD	605	650	
SAND	BROWN	HARD	650	700	
SANDY SHALE	BROWN	HARD	700	830	
SAND	BROWN	SOFT	830	915	
SANDY SHALE	GRAY	HARD	915	1107	
SAND	GRAY	HARD	1107	1150	
SANDY SHALE	GRAY	HARD	1150	1170	
SAND	BROWN	HARD	1170	1180	
SANDY SHALE	GRAY	HARD	1180	1250	
SAND	GRAY	SOFT	1250	1305	
SANDY SHALE	GRAY	HARD	1305	1340	
3-LIME	BROWN	HARD	1340	1535	
SAND	GRAY	HARD	1535	1600	
SANDY-SHALE	GRAY	SOFT	1600	1800	
ID			1800		



Received

APR - 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
11070
3) API Well No.: 47 - 067 - 00701

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>Bonnie J. Corporation</u>	Name <u>none</u>
Address <u>PO Box 105</u>	Address _____
<u>Drennen, WV 26667</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Bonnie J. Corporation</u> ✓
_____	Address <u>PO Box 105</u>
_____	<u>Drennen, WV 26667</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Ed Gainer</u> ✓	(c) Coal Lessee with Declaration
Address <u>PO Box 821</u>	Name <u>none</u>
<u>Spencer, WV 25276</u>	Address _____
Telephone <u>304-389-7582</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 Gainer
 Its: Attorney-in-Fact
 Address 2481 John Nash Blvd
Bluefield, WV 24701
 Telephone 304-32-6568

Received

Subscribed and sworn before me this 4th day of April 2014
Beverly A. Webb Notary Public
 My Commission Expires 6/30/15

BEVERLY A. WEBB
 NOTARY PUBLIC
 Commonwealth of Virginia
 Reg. #7502331
 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.

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Ed Gainer
PO Box 821
Spencer, WV 25276

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For delivery information visit our website at www.usps.com
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Bank One Trustee for Shepard Heirs
PO Box 1113
Charleston, WV 25324

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

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Penn Virginia Oil and Gas Corp.
PO Box 905820
Charlotte, NC 28250-5820

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Arthur & Betty Lou Shrewsbury
HC 69 Box 188
Herdon, WV 24726

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For delivery information visit our website at www.usps.com
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Bonnie J. Corporation
PO Box 105
Drennen, WV 26657

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Gary Kennedy
PO Box 268
Nimick, WV 25978

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Ross Eller
121 Oriehill Drive
Beckley, WV 25801

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Mark Kinder
Pocahontas Land Corp.
PO Box 1517
Bluefield, WV 24701

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Mechel North America
818 North Eisenhower Drive
Beckley, WV 25801

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Landgraf Shareholders LLC
PO Box 615
Martinsburg, WV 25401

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For delivery information visit our website at www.usps.com
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Alawast, Inc.
PO Box 920
Weld, 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 Jerry Fork of Peters Creek Quadrangle Gilboa, WV

Elevation 1210 ft. County Nicholas District Grant

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

Will a synthetic liner be used in the pit? N/A No Pit

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

Received

Subscribed and sworn before me this 4th day of April, 20 14

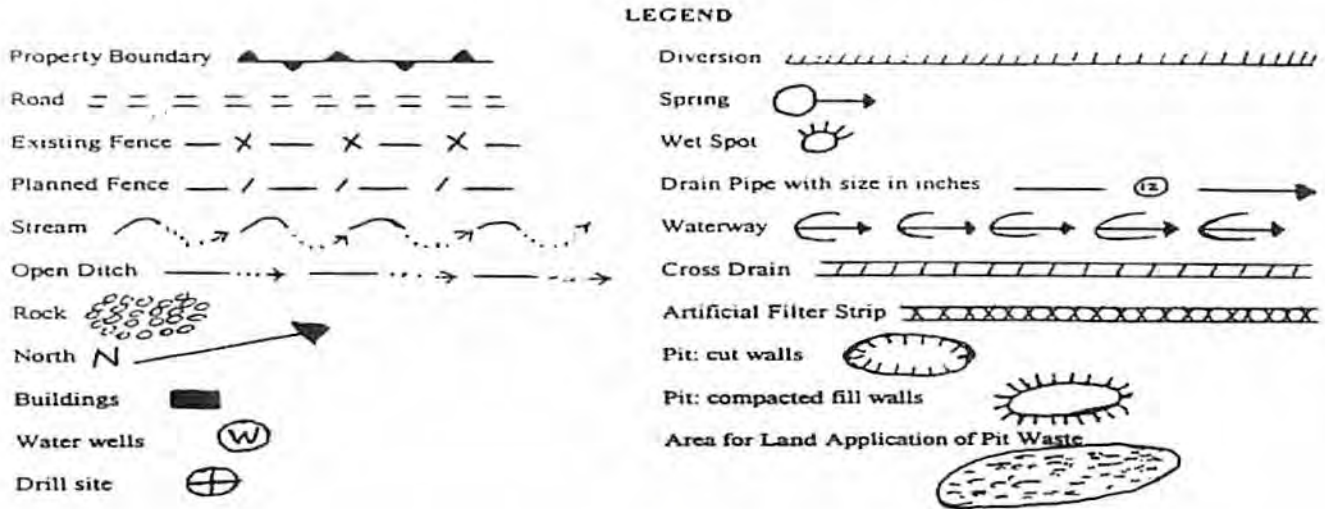
Beverly A. Webb Notary Public

My commission expires 01/30/15

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

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014



Proposed Revegetation Treatment: Acres Disturbed .75 Acre 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		<u>25</u>	same as Area I		
Birdsfoot trefoil		<u>15</u>			
Lidino clover		<u>10</u>			

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

Photocopied section of involved 7.5' topographic sheet.

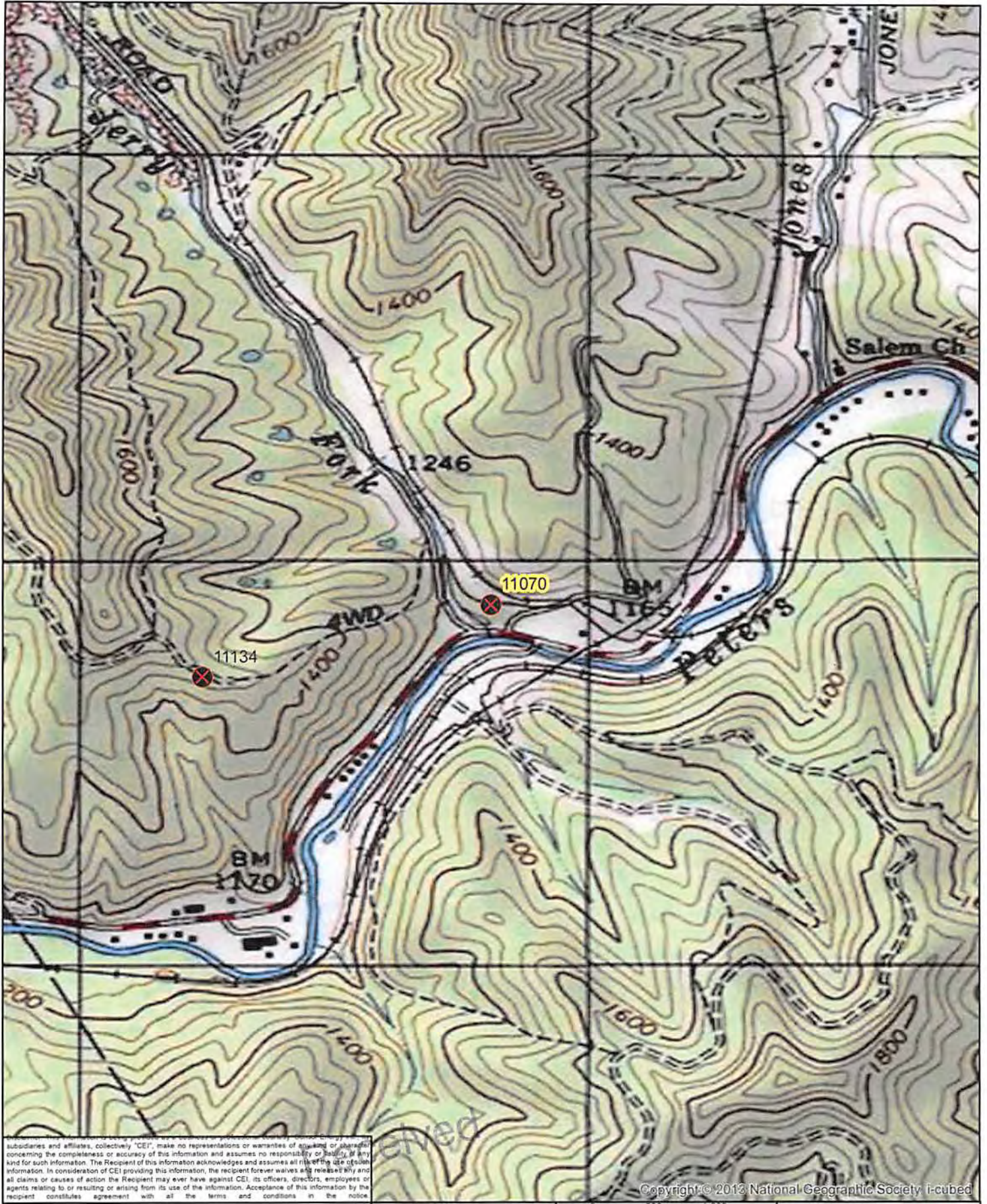
Plan Approved by:

Comments: _____

Received

Title: Inspector Date: 3/25/14

Field Reviewed? Yes No



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Office of Oil and Gas
 U.S. Dept. of Environmental Protection

0 500 1,000 Feet	
Date: 1/24/2014	Prepared By: KK
Revisions:	Approved By: BS
This map is property of CONSOL Energy Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.	

CONSOL ENERGY

PROPOSED PLUGGING
 WELL NUMBER 11070
 API# 47-067-00701
 GENERAL RELEASE
 04/25/2014

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-067-00701 WELL NO.: 11070

FARM NAME: Consolidation Rail Corp.

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: Nicholas DISTRICT: Grant

QUADRANGLE: Gilboa, WV

SURFACE OWNER: Bonnie J. Corp.

ROYALTY OWNER: Flynn Coal and Lumber

UTM GPS NORTHING: 4,236,896 m

UTM GPS EASTING: 501,828 m GPS ELEVATION: 895 m 1210 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

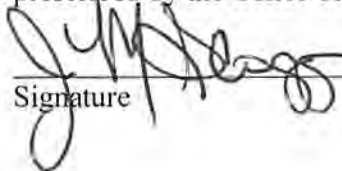
Real-Time Differential

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.


Signature

Production Coord
Title

3-28-14
Date

Received

OFFICE OF OIL AND GAS

Department of Environmental Protection



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 57th 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