



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

May 19, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-502008, 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: 14419
Farm Name: BANK ONE - TRUSTEE
API Well Number: 47-502008
Permit Type: Plugging
Date Issued: 05/19/2014

Promoting a healthy environment.

05/23/2014

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.

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. 14419
3) API Well No. 47-005 - 02008

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 1677 ft. Watershed Rocklick Branch
District Crook County Boone 5 Quadrangle Pilot Knob, WV 547
- 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 Ross Eller Name L&D Well Services
Address 121 Brierhill Drive Address PO Box 1192
Beckley, WV 25801 Vansant, VA 24656

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

Received

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

Work order approved by inspector



Date

5/1/14

05/23/2014

API 47-005-02008 Plugging Procedure

ELEVATION: 1677'

1. Verify total depth 5600'.
2. Run free-point survey on 4-1/2" casing. Drilling report states top of cement is 1900' per previous log.
3. Run tubing to TD. Set plug of ^{CLASS A CEMENT} 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 7" casing shoe. (Approx. 1210') Pull remaining 4-1/2" out of well.
6. Bond log 7" casing.
7. Run tubing to previous cement top (1210'). 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.
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.

★ EXPANDING CEMENT CAN BE USED FROM A POINT 100' BELOW COAL PROTECTION CASING.

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.

CLASS A CEMENT DEFINITION STATES THAT A CEMENT PLUG MUST BE AT LEAST 100' OF CLASS A CEMENT WITH NO MORE THAN 3% $CaCl_2$ AND NO OTHER ADDITIVES.

Received

WELLBORE MUST BE FILLED WITH GEL SPACERS BETWEEN ALL CEMENT PLUGS.

GEL DEFINITION - FRESH WATER WITH AT LEAST 6% BENTONITE (BY WEIGHT)

05/23/2014

WR-35
Rev (5-01)

DATE: 02/16/2006
API #: 47 005 02008

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Bank One-Tustee Operator Well No.: 14419

LOCATION: Elevation '1677' Quadrangle: Pilot Knob 7.5'

District: Crook County: Boone
Latitude: 2310 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude 11.780 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: Dominion Exploration & Production, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P O Box 1248 Jane Lew, WV 26378				
Agent: Rodney J. Biggs				
Inspector: Carlos Hively				
Date Permit Issued: 08/10/2005				
Date Well Work Commenced: 12/05/2005	12 3/4"	22'	22'	Sand In
Date Well Work Completed: 12/29/2005				
Verbal Plugging N/A	9 5/8"	177'	177'	70 sks
Date Permission granted on: N/A				
Rotary X Cable Rig	7"	1110'	1110'	190 sks
Total Depth (feet): 5600'				
Fresh Water Depth (ft.): N/A	4 1/2"	3333'	3333'	125 sks
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 690-693', 730-731', 990-993'				

Received

APR 2 2006

OPEN FLOW DATA

Producing formation Big Lime Pay zone depth (ft) 3123-3127' & 3008-3074'

Gas: Initial open flow 60 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 1.3 MMCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 12 Hours

Static rock Pressure 750 psig (surface pressure) after 12 Hours

Commingled

Second producing formation _____ Pay zone depth (ft) _____

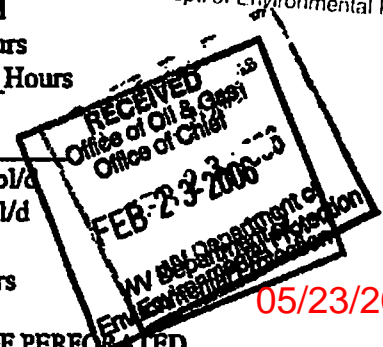
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

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

Office of Oil and Gas
WV Dept. of Environmental Protection



05/23/2014

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORMED INTERVALS REACTIVATING OR STABILIZING PHYSICAL CHANGE ETC. 2) THE WELL

ACID JOB DUE TO POOR CEMENT BOND AND ZONAL ISOLATION ACROSS BIG LIME. RU
 SLB AND ACID FRAC W/ NITROGEN ASSIST (200 SCF/BBL) - 5500 GAL 28% HCL, 53,200 SCF
 N2, 78 BBL TW, 40 BBL FW (FOR FLUSH), BDP 627#, ATP 1291#, ATP 1019#, AIR 10 BPM,
 ISIP 687#, 2 MIN SIP 609#, 5 MIN SIP 591#.

Fill	0	22
Sand Stone	22	125
Shale	125	220
Sandstone	220	350
Shale	350	420
Sand Stone	420	520
Shale	520	690
Coal	690	693
Shale	693	730
Coal	730	731
Shale	731	855
Salt Sand	855	930
Shale	930	990
Coal	990	993
Shale	993	1090
Salt Sand	1090	1115
Shale	1115	1170
Salt Sand	1170	1430
Sand Stone	1430	1620
Sandy Shale	1620	1680
Shale	1680	1945
Ravencliff	1945	

GAMMA RAY LOG				
FORMATION TOPS				
DEPTH (14-13)		047-005-02008		
			TOP	BASE
RAVENCLIFF SAND			1969	2008
AVIS LIME			2050	2087
UPPER MAXTON			2137	2185
MIDDLE MAXTON			2322	2417
LOWER MAXTON			2580	2598
LITTLE LIME			2668	2822
BIG LIME			2822	3150
PRICE FORMATION			3150	3650
WEIR SAND			3276	3314
SUNBURY SHALE			3600	3650
BEREA SAND			3850	3861
GORDON SAND			3828	3840
UPPER HURON			4760	5120
LOWER HURON			5120	5350
LTD				5602

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
14419

3) API Well No.: 47 - 005 - 02008

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>Bank One Trustee for Shepard Heirs</u> ✓	Name _____
Address <u>PO Box 1113</u>	Address _____
<u>Charleston, WV 25324</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>WPP, Inc.</u> ✓
	Address <u>5260 Irwin Road</u>
	<u>Huntington, WV 25705-3247</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Ross Eller</u> ✓	(c) Coal Lessee with Declaration
Address <u>121 Brierhill Drive</u>	Name <u>Eastern Associated Coal Corp.</u> ✓
<u>Beckley, WV 25801</u>	Address <u>PO Box 1233</u>
Telephone <u>304-932-6844</u>	<u>Charleston, WV 25324</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: Eol Fanning
 Its: Attorney-in-Fact
 Address 2481 John Nash Blvd
Bluefield, WV 24701
 Telephone 304-323-6568

Received

Subscribed and sworn before me this 4th day of April 2014
Beverly A. Webb Notary Public

My Commission Expires 6/30/14

BEVERLY A. WEBB
 NOTARY PUBLIC
 Commonwealth of Virginia
 Reg. #7502381

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.

4700502008P

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To:
Jason Steele
P.O. Box 134
Mullens, WV 25882

PS Form 3800, August 2006 See Reverse for Instructions

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Landgraff Realty
PO Box 615
Welch, WV 24801

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To:
WPP, Inc.
5260 Irwin Road
Huntington, WV 25705-3247

PS Form 3800, August 2006 See Reverse for Instructions

✓
Received

WV Dept. of Economic Development

05/23/2014

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PO Box 821
Spencer, WV 25276

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To: Bank One Trustee for Shepard Heirs
PO Box 1113
Charleston, WV 25324

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

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PO Box 905820
Charlotte, NC 28290-5820

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HC 69 Box 188
Herron, WV 24726

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To: Bonnie J. Corporation
PO Box 105
Drennen, WV 26667

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7013 2630 0001 5770 4013
To: Gary Kennedy
PO Box 268
Nimitz, WV 25978

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7013 2630 0001 5770 4020
To: Ross Eller
121 Briehill Drive
Beckley, WV 25801

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7013 2630 0001 5770 4037
To: Mark Kinder
Pocahontas Land Corp.
PO Box 1517
Bluefield, WV 24701

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7013 2630 0001 5770 4136
To: Mechel North America
818 North Eisenhower Drive
Beckley, WV 25801

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7013 2630 0001 5770 4143
To: Landgraf Shareholders LLC
PO Box 615
Martinsburg, WV 25401

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7013 2630 0001 5770 4112
To: Alawest, Inc.
PO Box 920
Weld, WV 24801

Received

Office of Oil and Gas
WV Dept. of Environmental Protection

05/23/2014

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 Rocklick Branch Quadrangle Pilot Knob, WV

Elevation 1677 ft. County Boone District Crook

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 : NO PIT WASTE

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 Attorney-in-Fact

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

Beverly A. Webb

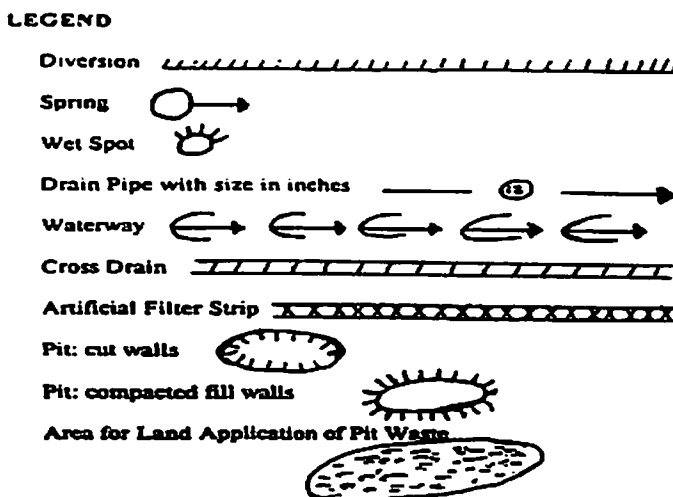
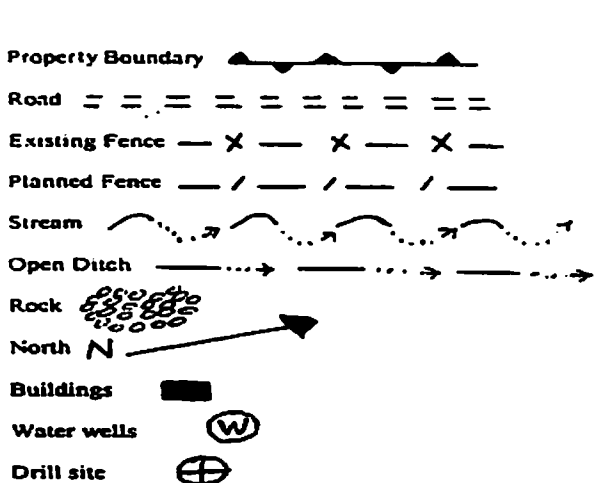
Notary Public

My commission expires 6/30/15

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

Received

Office of Oil and Gas
WV Dept. of Environmental Protection



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	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.

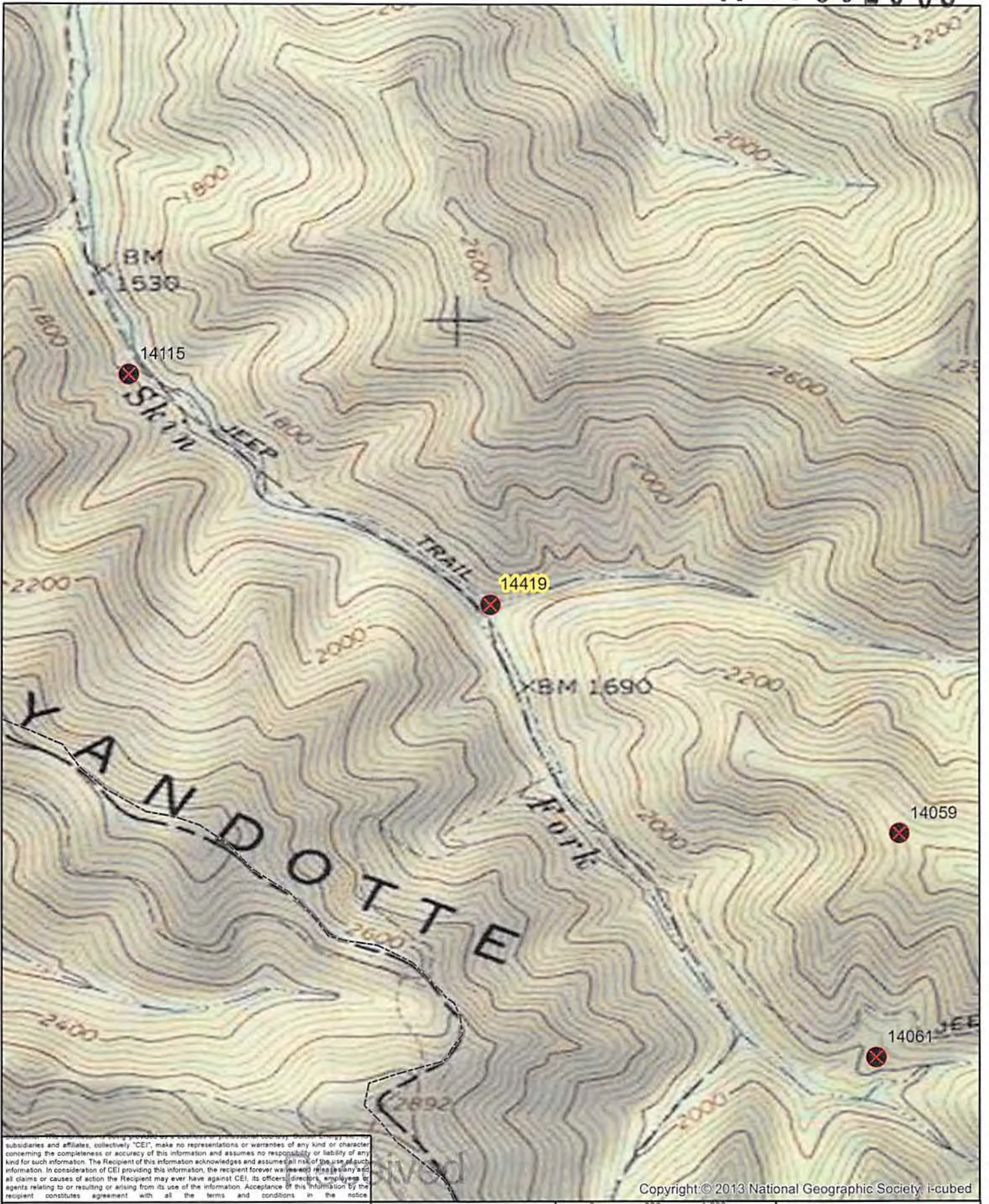
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]
 Comments: _____

Received

Title: WV DEP Inspection Date: 4/1/17

Field Reviewed? Yes No



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APR - 2014

Office of Oil and Gas

Dep't. 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 14419
API# 47-005-02008
GENERAL 05/23/2014

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-005-02008 WELL NO.: 14419
 FARM NAME: Bank One Trustees for Shepard Heirs
 RESPONSIBLE PARTY NAME: CNX Gas Company
 COUNTY: Boone DISTRICT: Crook
 QUADRANGLE: Pilot Knob, WV
 SURFACE OWNER: Bank One Trustees for Shepard Heirs
 ROYALTY OWNER: Bank One Trustees for Shepard Heirs
 UTM GPS NORTHING: 4,182,173 m
 UTM GPS EASTING: 448,744 m GPS ELEVATION: 509 1677'

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:

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

Survey grade GPS : Post Processed Differential

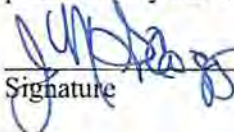
Real-Time Differential

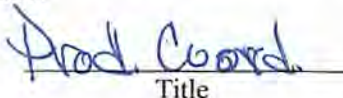
Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. 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


Title


Date

Received

APR 21 2014

Office of Oil and Gas
Dept. of Environmental Protection

4700502008



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,

A handwritten signature in blue ink that reads 'Bob Staton'.

Bob Staton
Permitting Agent

enclosures

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

05/23/2014