



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

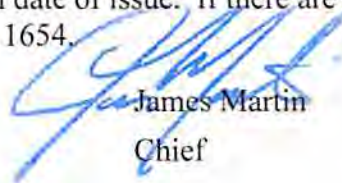
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4700178, 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: 10144
Farm Name: ALAWEST, INC.
API Well Number: 47-4700178
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. 10144
3) API Well No. 47-047 - 00175

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 1826 ft. Watershed Big Branch of Clear Fork
District Big Creek 2 County McDowell 47 Quadrangle Davy, WV 319

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 267 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

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 3/28/14

API 47-47-00178 Plugging Procedure

1. Verify total depth 4511'.
2. Run free-point survey on 5-1/2" 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 5-1/2" casing at free-point.
5. Cement through 5-1/2" csg. while pulling 5-1/2", from top of bottom plug to approximately 100' below the 9-5/8" casing shoe. (Approx. 1216') Pull remaining 5-1/2" out of well.
6. Run free-point survey on 9-5/8" casing.
7. Run tubing to previous cement top (1216'). Cement across the 9-5/8" shoe to a minimum of 50' above shoe, bringing cement top to approximately 50' below the 9-5/8" free-point or to surface, whichever is necessary.
8. If necessary, cut and pull free 9-5/8" casing.
9. Repeat free-point and cutting procedures for 13-3/8" if 9-5/8" is cut and pulled.
10. Cement from 50' below 13-3/8" shoe to surface.
11. Install 7" X 4' steel monument with API# and Date.

MAKE SURE COAL @ 316'
COVERED WITH CEMENT PLUG. 426' IS
529'

gwm

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

APP

Office of Oil and Gas
WV Dept. of Environmental Protection

[Signature]

3/25/14

DEPARTMENT OF MINES
OIL AND GAS DIVISION 4

4704700178P

Quadrangle WELCH

Permit No. MCD-178

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Hope Natural Gas Company
Address Clarksburg, W. Va.
Farm Olga Coal Company Acres 29,406
Location (waters) _____
Well No. 10144 Elev. 1826'
District Big Creek County McDowell
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 4-20-58
Drilling completed 5-8-58
Date Shot Not From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 83 M Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED No
WELL FRACTURED 5-10-58

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	61'	61'	
10	1116	1116'	Size of
8 1/4			
6 3/4			Depth set
5 3/16	4512	4512	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 5 1/2" SIZE 105 No. Ft. 40 Date _____
5 1/2" casing cemented with 105 bags & 40 gal.
COAL WAS ENCOUNTERED AT 316 FEET 36 INCHES
426 FEET 72 INCHES 529 FEET 36 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

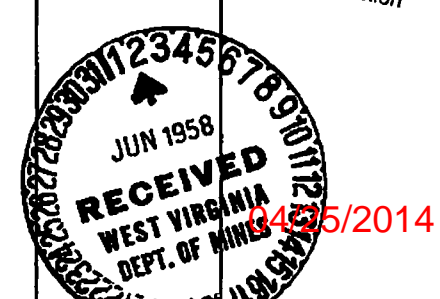
RESULT AFTER TREATMENT 200 M
ROCK PRESSURE AFTER TREATMENT 860#
Fresh Water Rotary No water Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Lime & Shells			0	150			
Sand			150	316			
Coal			316	319			
Sand			319	365			
Sdy. Sh.			365	426			
Coal			426	432			
Sdy-Shale			432	445			
Sand			445	475			
Shale			475	500			
Lime			500	520			
Shale			520	529			
Coal			529	532			
Shale			532	610			
Sand			610	685			
Shale			685	705			
Sand			705	765			
Sand & Sh.			765	785			
Shale			785	800			
Sand			800	900			
Shale and Sand			900	950			
Shale			950	995			
Sand			995	1,080			
Shale			1,080	1,090			
Shady Sd.			1,090	1,125			
Shale			1,125	1,140			
Lime			1,140	1,175			
Shale			1,175	1,200			

Received

APR - 1958

Office of Oil and Gas
WV Dept. of Environmental Protection



4704700178^f

Shale	1,495	1,510
Sh. & Lm.	1,510	1,610
Sh.	1,610	1,635
L.M.	1,635	1,670
Shale	1,670	1,805
Sdy. Sh.	1,805	1,845
Sd. Ravenclyff	1,845	2,020
Sh. (Red)	2,020	2,140
Sd.	2,140	2,185
Sdy.-Sh.	2,185	2,235
Sh.-Sd.	2,235	2,250
Sh. (Red)	2,250	2,275
Sh. & Sdy. Sh.	2,275	2,510
Hd LM	2,510	2,550
Sdi-Sh-Brn	2,550	2,645
Red Rock	2,645	2,680
Shale	2,680	2,930
Sand Lower Maxton	2,930	2,950
Shale & Lm	2,950	3,300
Big lm.	3,300	3,807
Sand	3,807	3,835
Sdy lm. & Sd.	3,835	4,120
Lay. Sh	4,120	4,430
Sun. Berry Sh.	4,430	4,458
Silstone Shale	4,458	4,461
Sand & Shale Berea	4,461	4,504
Shale	4,504	4,520
Total Depth		4,520

Gas

4483'

84 M

Received

APR - 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
10144
3) API Well No.: 47 - 047 - 00178

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:	<input checked="" type="checkbox"/>	5) (a) Coal Operator	<input type="checkbox"/>
(a) Name	Alawest, Inc.	Name	none
Address	PO Box 920 Welch, WV 24801	Address	_____
(b) Name	_____	(b) Coal Owner(s) with Declaration	<input checked="" type="checkbox"/>
Address	_____	Name	Alawest, Inc.
(c) Name	_____	Address	PO Box 920 Welch, WV 24801
Address	_____	Name	_____
Address	_____	Address	_____
6) Inspector	Gary Kennedy	(c) Coal Lessee with Declaration	<input type="checkbox"/>
Address	PO Box 268 268 Nimitz, WV 25978	Name	none
Telephone	304-382-5402	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.

Well Operator CNX Gas Company LLC
 By: [Signature]
 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

My Commission Expires 6/30/15

Notary Public
 BEVERLY A. 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.

470 4700178P

7013 2630 0001 5770 4006

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	

Postmark Here

To: Jason Steele
 Sent: P.O. Box 134
 Street or PO: Mullens, WV 25882
 City, S:

PS Form 3800, August 2006 See Reverse for Instructions

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Restricted Delivery Fee (Endorsement Required)	
Total	

Postmark Here

To: Landgraff Realty
 Sent: PO Box 615
 Street or P.O.: Welch, WV 24801
 City:

PS Form 3800, August 2006 See Reverse for Instructions

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Total	

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To: WPP, Inc.
 Sent: 5260 Irwin Road
 Street or P.O.: Huntington, WV 25705-3247
 City:

PS Form 3800, August 2006 See Reverse for Instructions

Received

04/25/2014
 WV Dept. of Revenue

04/25/2014

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To: Ed Gahner
 PO Box 821
 Spencer, WV 25276

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 PO Box 1113
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To: Eastern Associated Coal Corp.
 PO Box 1233
 Charleston, WV 25324

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To: Penn Virginia Oil and Gas Corp.
 PO Box 905820
 Charlotte, NC 28290-5820

See Reverse for Instructions

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To: Arthur & Betty Lou Shrewsbury
 HC 69 Box 188
 Herndon, WV 24726

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Total Postage \$ _____

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

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Total Postage \$ _____

To: Gary Kennedy
 PO Box 268
 Nimitz, WV 25978

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To: Ross Eller
 121 Urdershill Drive
 Beckley, WV 25801

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To: Mark Kinder
 Pochontas Land Corp.
 PO Box 1517
 Bluefield, WV 24701

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To: Mechel North America
 818 North Eisenhower Drive
 Rankin, WV 25901

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To: Landgraf Shareholders LLC
 PO Box 615

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Restricted Delivery Fee (Endorsement Required) _____

Total Postage \$ _____

To: Alawest, Inc.
 PO Box 920
 Welch, WV 24801

See Reverse for Instructions

Received

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 047 - 00178
Operator's Well No. 10144

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 Big Branch of Clear Fork Quadrangle Davy, WV

Elevation 1826 ft. County McDowell District Big Creek

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

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

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.

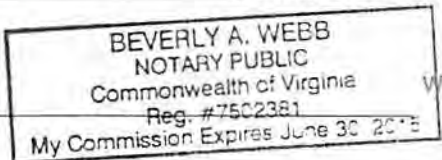
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 Supervisor

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

Beverly A. Webb Notary Public

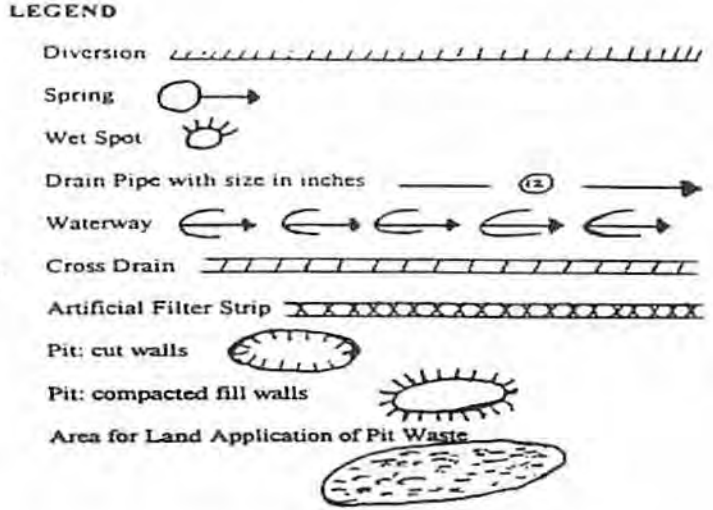
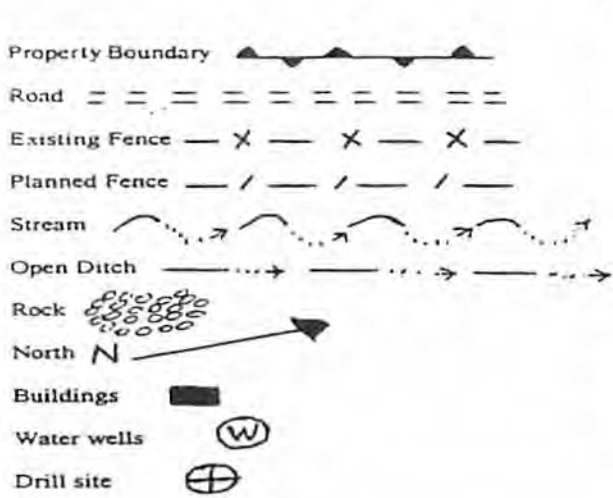
My commission expires 6/30/15



Received

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014



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	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: Hugh Kennedy

Comments: _____

Received

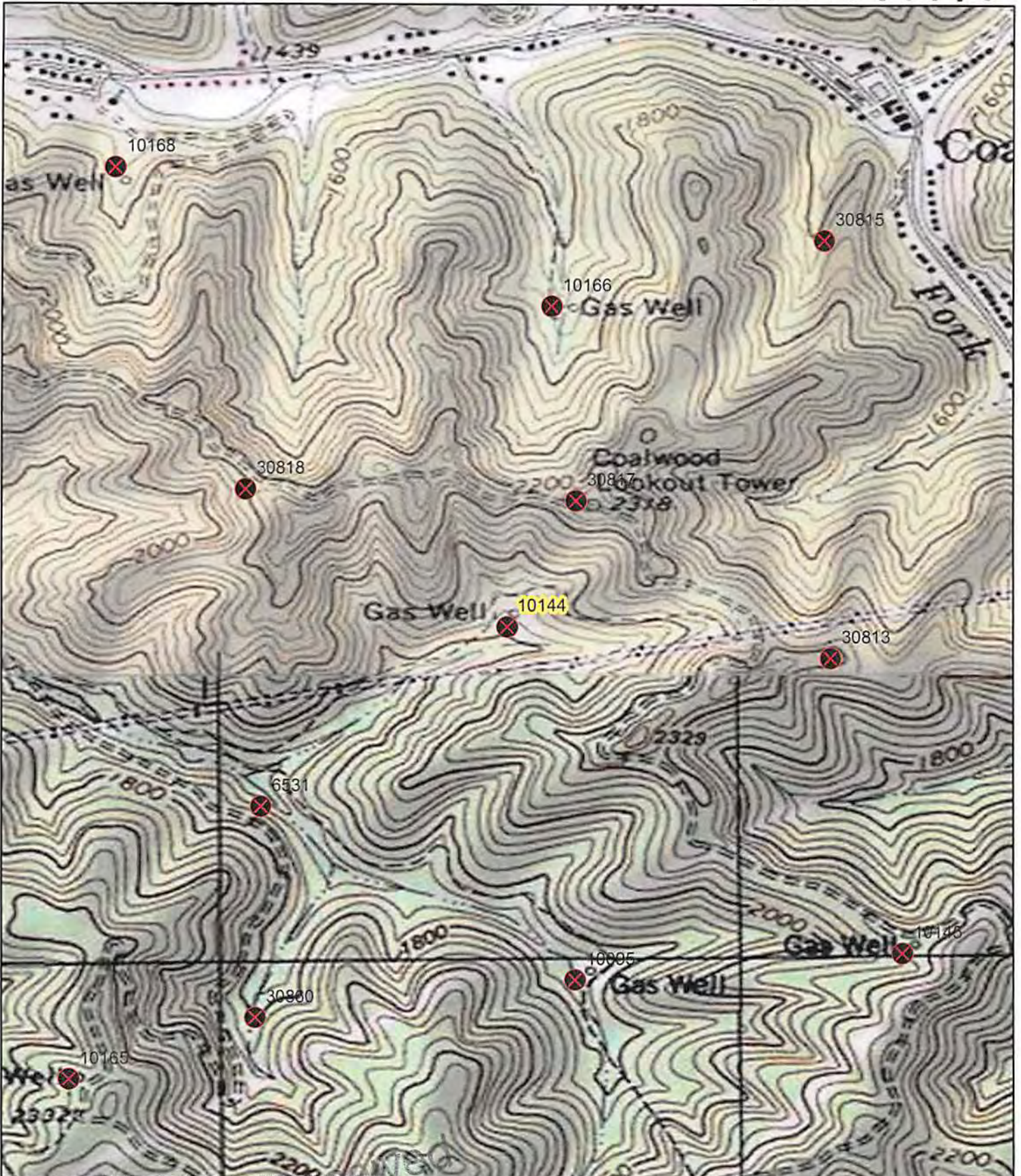
APR 7 2014

Title: Inspector

Date: 3/28/14

Field Reviewed? () Yes () No

Office of Oil and Gas
WV Dept. of Environmental Protection



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APR - 7 2014

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

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

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 10144

API# 47-047-00178

GENERAL 04/25/2014

WW-7
8-30-06



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

API: 47-047-00178 WELL NO.: 10144

FARM NAME: Olga Coal Company

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: McDowell DISTRICT: Big Creek

QUADRANGLE: Davy, WV

SURFACE OWNER: Alawest, Inc.

ROYALTY OWNER: Alawest, Inc.

UTM GPS NORTHING: 4,136,807 m

UTM GPS EASTING: 441,572 m GPS ELEVATION: 570 m 1826 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:

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] Production Coord. 3-28-14
Signature Title Date

Received

APR - 7 2014

Office of Oil and Gas
WV Dept. 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,

A handwritten signature in black ink that reads 'Bob Staton' in a cursive, slightly slanted script.

Bob Staton
Permitting Agent

enclosures

Received

APR -7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014