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

July 09, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4700291, 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 penalities 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: 10453
Farm Name: OLGA COAL CO.
API Well Number: 47-4700291
Permit Type: Plugging
Date Issued: 07/09/2014

4700291P

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.

4700291P

WW-4B
Rev. 2/01

1) Date _____, 20_____
2) Operator's
Well No. 10453
3) API Well No. 47- 047 - 00291

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 1889 ft. Watershed Snakeroot Brach of Clear Fork
District Big Creek County McDowell Quadrangle Davy

6) Well Operator CNX Gas Company LLC
Address 1000 Consol Energy Drive
Canonsburg, PA 15317

7) Designated Agent Jeremy Jones
Address One Dominion Drive
Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified
Name Gary Kennedy
Address PO Box 268
Nimitz, WV 25978

9) Plugging Contractor
Name L&D Well Services
Address PO Box 1192
Vansant, VA 24656

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

see attached plugging procedures

Received

JUN 18 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 5/22/14

4700291P

API 47-47-00291 Plugging Procedure

1. Verify total depth 4548'.
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 9-5/8" casing shoe. (Approx. 1121') Pull remaining 4-1/2" out of well.
6. Run free-point survey on 9-5/8" casing.
7. Run tubing to previous cement top (1121'). 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. THERE IS NO 13 3/8"
10. Cement from 50' below 13-3/8" 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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Office of Oil and Gas
WV Dept. of Environmental Protection

4700291P

Miss Phillips
To be posted
2-1-66

Form OG-10

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 15

Rotary ☒
Spudder ☐
Cable Tools ☐
Storage ☐

WELL RECORD

Quadrangle Welch
Permit No. MCD-291

Oil or Gas Well Gas (KIND)

Company Consolidated Gas Supply Corporation
Address Clarksaburg, W. Va.
Farm Olga Coal Company Acres 29,406
Location (waters)
Well No. 10453 Elev. 1889'
District Big Creek, County McDowell
The surface of tract is owned in fee by
Address
Mineral rights are owned by
Address
Drilling commenced 6-4-65
Drilling completed 6-16-65
Date Shot Not shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 84 M Cu. Ft.
Rock Pressure 640 lbs. 98 hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) No
WELL FRACTURED (DETAILS) Yes

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
~~xx~~ 9-5/8"	1021	1021	Size of
8¼			
6⅝			Depth set
5 3/16			
4½	4540	4540	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record. None available
CASING CEMENTED SIZE No. Ft. Dat
Amount of cement used (bags) 9-5/8" with 275 bags
Name of Service Co. 4½" with 100 bags
COAL WAS ENCOUNTERED AT 211 FEET 108 INCHE
268 FEET 24 INCHES 391 FEET 36 INCHE
551 FEET 36 INCHES 607 FEET 24 INCHE
757 24 969 24

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 403 M
ROCK PRESSURE AFTER TREATMENT 680# ~~HOURS~~ 14 days
Fresh Water 125' Feet Salt Water None Feet
Producing Sand Berea Depth 4452-58'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks

-O-V-E-R-

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WV Dept. of Environmental Protection

FEB 1966
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West Virginia
Dept. of Mines

Consolidated Gas Supply Corporation
Jack Bailey
February 3, 1966

(over)

4700291P

FORMATION	Open or Close Hard or Soft	TOP 15	BOTTOM	Steel Line Measurement	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
nd	Brown	0	42					Set 26' of casing @ 26'
nd	White	42	52					
d & Sh.	Gray	52	211					
WELL COAL		211	220					
d & Sh.	Gray	220	268					
al		268	270					
d & Sh.	Gray	270	391					
al		391	394					
d & Sh.	Gray	394	551					
al		551	554					
nd	White	554	607					
al		607	609					
nd	White	609	683					
d,Sh. & Lime		683	757					
al		757	759					
d & Sh.	Gray	759	969					
POCA COAL		969	971					
d & Sh.	Gray	971	1400					Set 9 5/8" casing @ 1017'
d,Sh. & R.	Rock	1400	1864					
VEN CLIFF S'D		1864	1995					
IS LIME		1995	2060					
ale	Gray	2060	2150					
d, Sh. & R.	Rock	2150	2365					
ale & Lime		2365	2445					
AXTON		2445	2496					
ale	Gray	2496	2520					
d & Sh.	Gray	2520	2645					
d, Sh. & R.	Rock	2645	2886					
OWER MAXTON		2886	2968					
hale	Gray	2968	3054					
ITTLE LIME		3054	3140					
encil Shale		3140	3200					
IG LIME		3200	3730					
ed S'd		3730	3836					
eir Sand		3836	4060					
hale	Gray	4060	4400					
UNBURY SHALE		4400	4418					
EREA SAND		4418	4471					
hale	Gray	4471	4548					Gas @ 4053-4058 test 4/10 W. 2" o.f.-84M
OTAL DEPTH		4548-KB Drilled W/Rotary 8' off for ground level 4540' GL.						
OTAL DEPTH								

Received
JUN 13 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Date_____, 19____

APPROVED_____, Owner

By_____
(Title)

Riggs-Johnston-Withrow, Beckley

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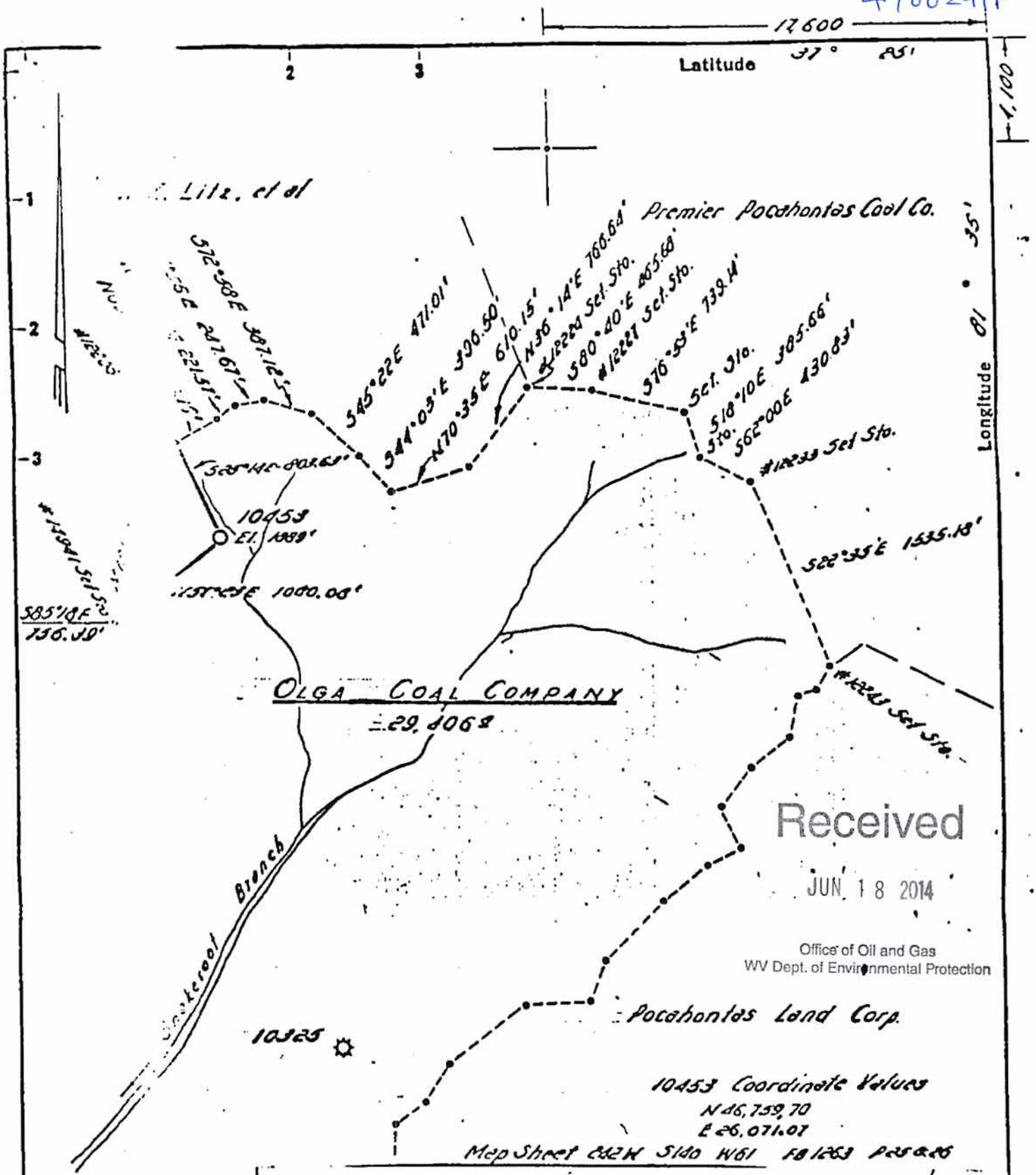

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WV Dept. of Environmental Protection

Minimum Error of Closure 1"=200'

Source of Elevation ELEV FROM OLGA COAL CO BM ELEV 1621.52'

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location ☒
Drill Deeper ☐
Abandonment ☐

Company HOPE NATURAL GAS CO.
Address CLARKSBURG, W.VA.
Farm OLGA COAL COMPANY
Tract ____ Acres 29.406 Lease No. 61108
Well (Farm) No. ____ Serial No. 10453
Elevation (Spirit Level) 1889'
Quadrangle WELCH C
County McDowell District BIG CREEK
Engineer Jackson M. Jarvis
Engineer's Registration No. 2397
File No. ____ Drawing No. ____
Date 11-8-62 Scale 1"=1000'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

10453

WELL LOCATION MAP

FILE NO. 047-0291

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

K-E 100 IMPERIAL

165.

47 00291P

RECEIVED
Office of Oil and Gas

JUL 8 2014

WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date:
2) Operator's Well Number
10453

3) API Well No.: 47 - 047 - 00291

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Alawest, Inc.
Address: PO Box 920
Welch, WV 24801

(b) Name:
Address:

(c) Name:
Address:

6) Inspector: Gary Kennedy
Address: PO Box 268
Nimitz, WV 25978
Telephone: 304-382-8402

5) (a) Coal Operator
Name: none
Address:

(b) Coal Owner(s) with Declaration
Name: Alawest, Inc.
Address: PO Box 920
Welch, WV 24801

Name:
Address:

(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.

RICHARD B. FRENCH NOTARY PUBLIC REG. # 7507041 COMMONWEALTH OF VIRGINIA

Well Operator: CNX Gas Company LLC
By: Ed Tawney
Its: Attorney-in-Fact
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Telephone: 276-596-5075

Subscribed and sworn before me this 8 day of July 2014
Richard B French Notary Public
My Commission Expires July 31 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 deprivacyoffier@wv.gov.

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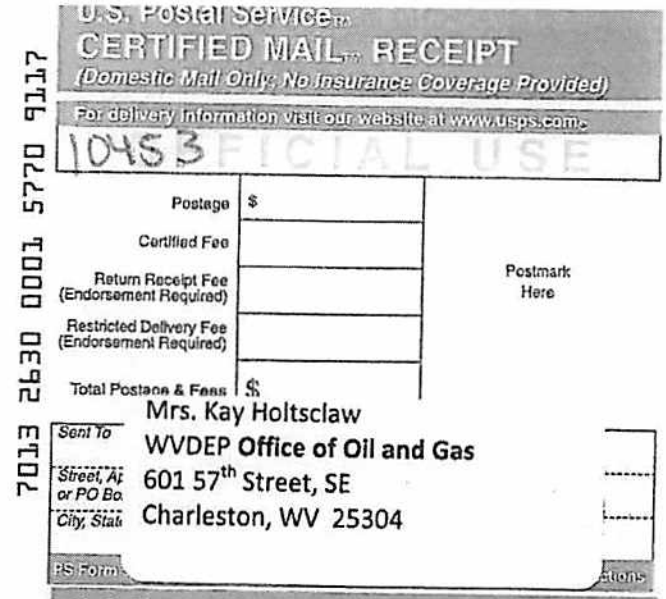
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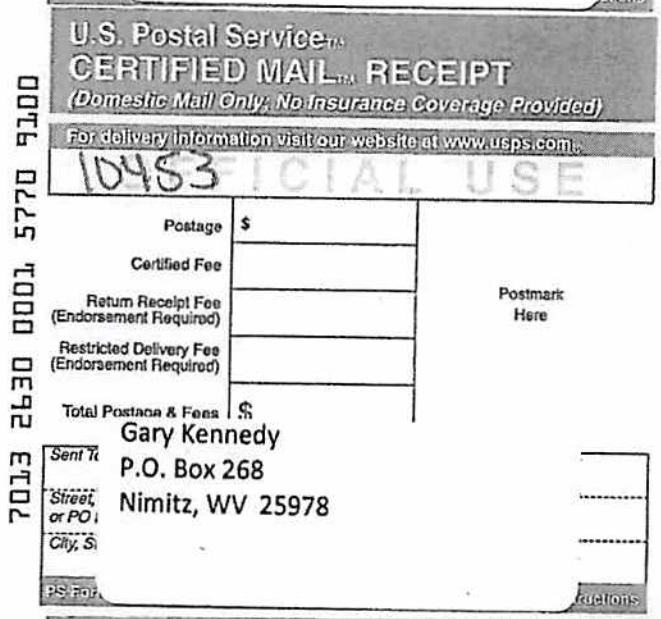
Mrs. Kay Holtsclaw
WVDEP Office of Oil and Gas
Street, Apt. or PO Box
601 57th Street, SE
City, State
Charleston, WV 25304
PS Form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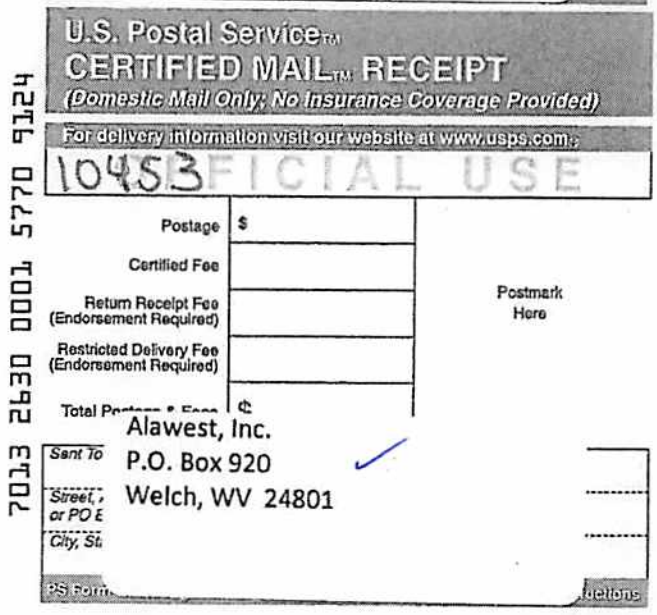
Gary Kennedy
P.O. Box 268
Street, Apt. or PO Box
Nimitz, WV 25978
City, State
PS Form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Postmark Here
7013 2630 0001 5770 9124
Sent To
Alawest, Inc.
P.O. Box 920
Street, Apt. or PO Box
Welch, WV 24801
City, State
PS Form

47 00291P

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JUL 8 2014

WV Department of Environmental Protection

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 047 - 00291
Operator's Well No. 10453

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 Snakeroot Branch of Clear Fork Quadrangle Davy

Elevation 1889 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.

NO PIT

Proposed Disposal Method For Treated Pit Wastes:

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

Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover _____ Plugging
X 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 8 day of July, 2014

Richard B French Notory Public

My commission expires July 31 2015

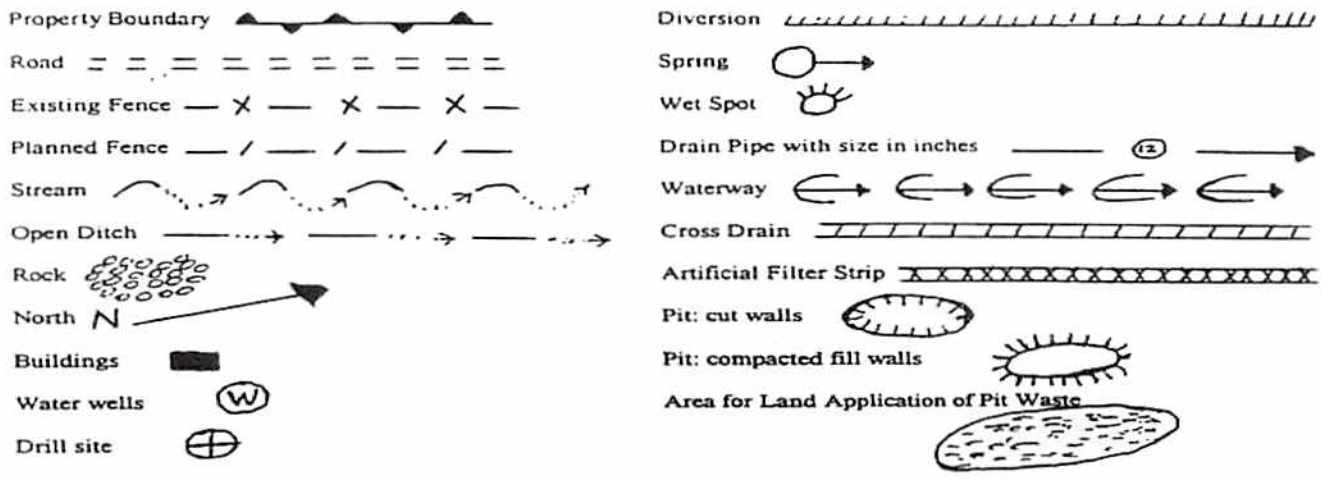
RICHARD B. FRENCH NOTARY PUBLIC REG. # 7507041 COMMONWEALTH OF VIRGINIA

4700291P

Form WW-9

Operator's Well No. 10453

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

Area I		Area II	
Seed Type	lbs/acre	Seed Type	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: Jamy Kennedy

Comments:

Title: Inspector Date: 5/22/14

Field Reviewed? (✓) Yes ( ) No

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JUN 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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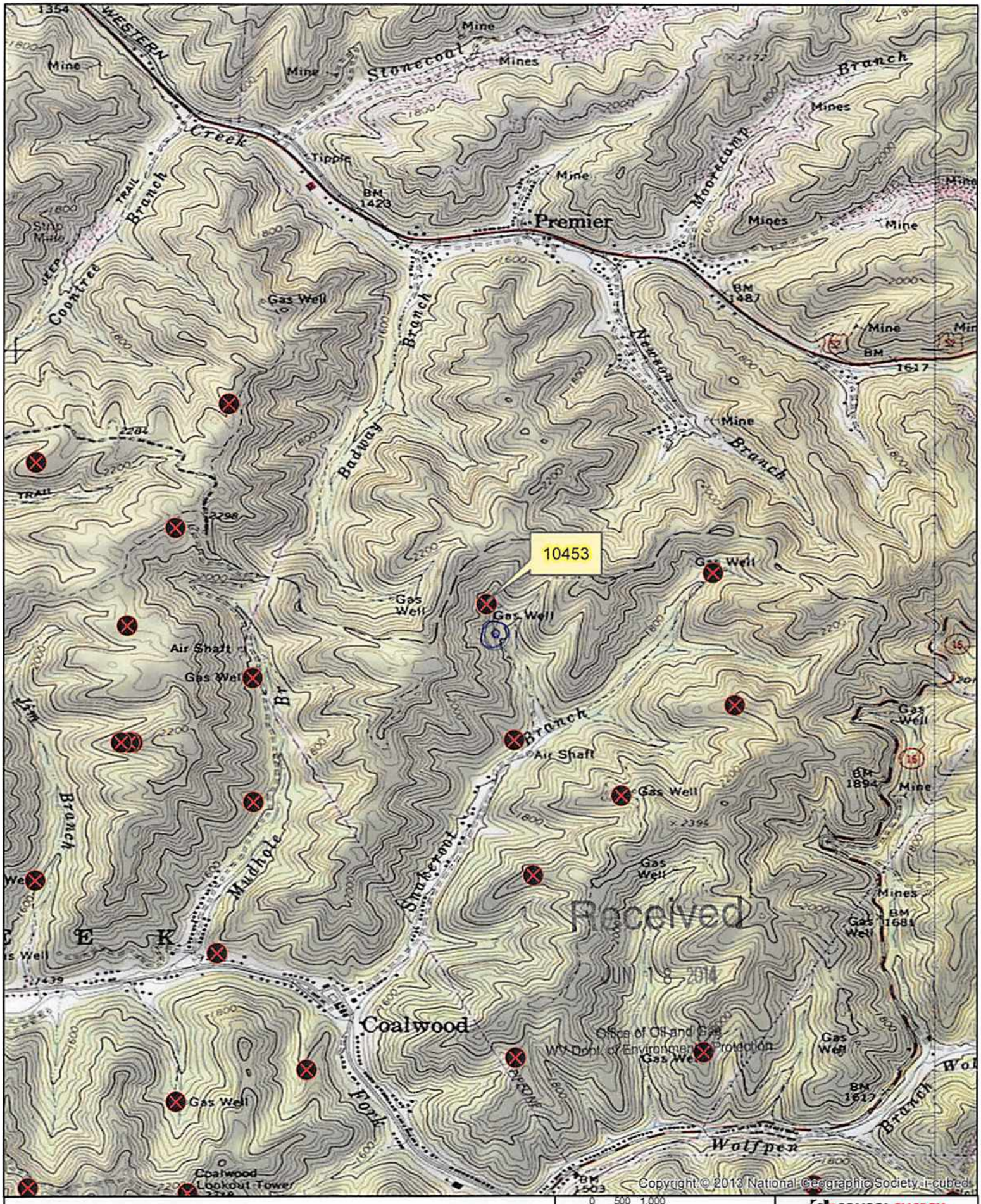

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N

0 500 1,000 Feet

Date: 5/9/2014	Prepared By: KK
Revisions:	Approved By: BS

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CONSOL ENERGY

PROPOSED PLUGGING
WELL NUMBER 10453
API# 47-047-00291
GENERAL LOCATION MAP

\\Cxabiu01\gis\project_areas\business_unit_support\gas_permitting\gb9\maps\wv_pluggings.mxd - bkk0uc6

4700291P

WW-7
8-30-06

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

API: 47-047-00291 **WELL NO.:** 10453

FARM NAME: Alawest, Inc.

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: McDowell **DISTRICT:** Big Creek

QUADRANGLE: Davy

SURFACE OWNER: Alawest, Inc.

ROYALTY OWNER: Alawest, Inc.

UTM GPS NORTHING: 4,139,826.0 m

UTM GPS EASTING: 442932.5 m **GPS ELEVATION:** 590 m (1935.2 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 X: Post Processed Differential X
   Real-Time Differential _____
   Mapping Grade GPS ____: Post Processed Differential _____
   Real-Time Differential _____

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JUN 18 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

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 Prod. Coord. Title 6/17/14 Date

4700291P

CONSOL ENERGY
AMERICA'S ENERGY STARTS HERE.

627 Claypool Hill Mall Road
Cedar Bluff, VA 24609

June 16, 2014

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

RE: well # 47-047-00291

Dear Kay;

Please find enclosed the plugging application for the above referenced well. Feel free to contact me if you require any additional information.

Thank you for your consideration in this matter.

Bob Staton
Permitting Agent

enclosures

Received
JUN 18 2014
Office of Oil and Gas
WV Dept. of Environmental Protection