



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

August 06, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4700189, 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: 10220
Farm Name: ALAWEST, INC.
API Well Number: 47-4700189
Permit Type: Plugging
Date Issued: 08/06/2014

Promoting a healthy environment.

08/08/2014

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

4700189P

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. 10220
3) API Well No. 47-047-00189

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 1725 ft. Watershed Mountain Fork
District Big Creek County McDowell Quadrangle Gary, WV

6) Well Operator CNX Gas Company LLC 7) Designated Agent Jeremy Jones
Address 627 Claypool Hill Mall Road Address One Dominion Drive
Cedar Bluff, VA 24609 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

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*

RECEIVED
Office of Oil and Gas
Date MAY 20 2014

WV Department of
Environmental Protection
08/08/2014

API 47-47-00189 Plugging Procedure

1. Verify total depth 4512'.
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. BELOW 579' ≈ 1500' ^{OK}
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. 682') Pull remaining 4-1/2" out of well.
6. Run free-point survey on 9-5/8" casing. ≈ 380'
7. Run tubing to previous cement top (682'). 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. Cement from previous cement top 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.

SPK
RECEIVED
Office of Oil and Gas

MAY 30 2014

WV Department of
Environmental Protection
08/08/2014

10220

(1962)
Date

47-47-00189 P

37.341753
-81.61833

20" csg. 9' - 25 bags Cement

13³/₈" csg. 67' - Set from 513' to 580' welded to 9⁵/₈" cemented through mine void
from 547' to 552' - Basket @ 484' with 25 SKS Cement
on top of Basket

9⁵/₈" csg. 582' - 35 bags cement

4¹/₂" csg. 4512' - 140 bags cement - No Circulation

DTD = 4520'

Berea 4423' - 4454' Perf + Flac

WPK

RECEIVED
Office of Oil and Gas
MAY 30 2014

WV Department of
Environmental Protection
08/08/2014

4700189F

Quadrangle WELCH

Permit No. McD-189

WELL RECORD

Oil or Gas Well Gas

Company Hope Natural Gas Company

Address Clarksburg, W. Va.

Farm Olga Coal Co. Acres 1912 A

Location (waters) _____

Well No. 10220 Elev. 1725'

District Big Creek County McDowell

The surface of tract is owned in fee by _____

Address _____

Mineral rights are owned by _____

Address _____

Drilling commenced 3-30-63

Drilling completed 4-16-63

Date Shot Not shot From _____ To _____

With _____

Open Flow /10ths Water in _____ Inch

/10ths Merc. in _____ Inch

Volume 285 M Cu. Ft.

Rock Pressure 410 lbs. 24 hrs.

Oil None bbls., 1st 24 hrs.

WELL ACIDIZED No

WELL FRACTURED 4-29-63

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size	-		
16			Kind of Packer _____
13			
XX 9-5/8"	579	579	Size of _____
8 1/4"			
6 3/4"			Depth set _____
5 3/16"			
XX 4 3/8"	4512	4512	Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
4 3/8" casing cemented with 140 bags cement
 COAL WAS ENCOUNTERED AT 26 FEET 24 INCHES
116 FEET 60 INCHES 547 FEET 60 INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT 641 M

ROCK PRESSURE AFTER TREATMENT 425# in 14 days

Fresh Water See log Feet _____ Salt Water See log Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
		-O-V-E-R-					




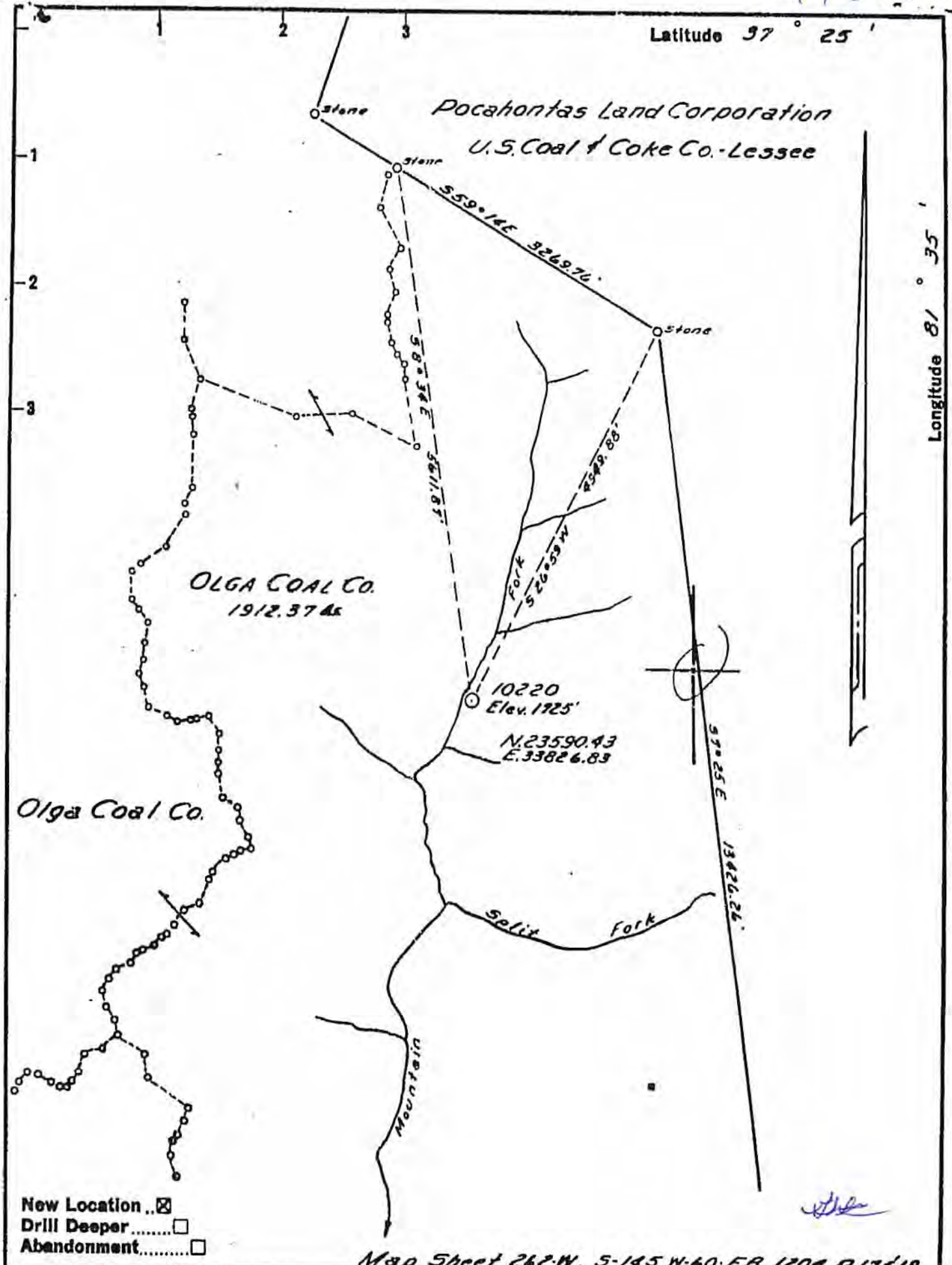
RECEIVED
Office of Oil and Gas
MAY 30 2014

WV Department of
August 6, 1963
08/08/2014
Protection

47 00189P

FORMATION	Open or Close Hard or Soft	TOP	BOTTOM	Steel Line Measurement	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
			17					
Sand		0	26					
COAL		26	28					
Sand		28	146		47			Small Amount
COAL		146	151		103			3" Stream of Water
Sand & Shale		151	165					
Sand		165	547					
#4 POCAHONTAS COAL		547	552					
No Returns		552	582					Dust
Sand		582	685					
Sand Shale & Lime		685	950					
Sand		950	1040					
Shale & Red Rock		1040	1340					
Shale & Lime		1340	1390					
Shale		1390	1475					
RAVENCLIFF SAND		1475	1640					
AVIS LIME		1640	1750					
Red Rock & Shale		1750	2070					
Shale & Lime		2070	2430					
MAXTON SAND		2430	2495					
Red Rock - Shale		2495	2575					
Sand - Lime		2575	2585					
Shale		2585	2895					
Shale Lime		2895	2915					
LITTLE LIME		2915	2980					
Shale		2980	3035					
BIG LIME		3035	3765					
Red Sand		3765	3790					
Sand & Shale		3790	4100					
Shale		4100	4395					
Brown Shale		4395	4409					
Silt Stone		4409	4423					
BEREA SAND		4423	4454				4434	46/10 W 2" O.F. 285;
Sandy Shale		4454	4520					
Total Depth			4520	K.B.				
			(4512)	G.L.				


 RECEIVED
 Office of Oil and Gas
 MAY 30 2014
 WV Department of
 Environmental Protection
 08/08/2014



Map Sheet 262-N, 5-145 W-60, F.B. 1204, P. 17 of 18

Company HOPE NATURAL GAS CO.
 Address CLARKSBURG, W.VA.
 Farm OLGA COAL CO.
 Tract _____ Acres 1912.37 Lease No. 62042
 Well (Farm) No. _____ Serial No. 10220
 Elevation (Spirit Level) 1725'
 Quadrangle WELCH C
 County MCDONWELL District BIG CREEK
 Engineer Ray H. Bradley
 Engineer's Registration No. 2425
 File No. _____ Drawing No. _____
 Date 2/2/59 Scale 1" = 1320'

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

WELL LOCATION MAP

FILE NO. TRC-D-189 08/08/2014

+ 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.

4700189P

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number _____
10220
3) API Well No.: 47 - 047 - 00189

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>Alawest, Inc.</u>	Name <u>none</u>
Address <u>PO Box 920</u> ✓ <u>Welch, WV 24801</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Alawest, Inc.</u>
(c) Name _____	Address <u>PO Box 920</u> ✓ <u>Welch, WV 24801</u>
Address _____	Name _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 268</u>	Name <u>none</u>
<u>Nimitz, WV 25978</u>	Address _____
Telephone <u>304-382-8402</u>	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 627 Claypool Hill Mall Road
Cedar Bluff, VA 24609
 Telephone 276-596-5075

Subscribed and sworn before me this 29th day of May 2014

My Commission Expires _____

BEVERLY A. WEBB
NOTARY PUBLIC
 Commonwealth of Virginia
 Reg. #7502361
 My Commission Expires June 30, 2015

Notary Public
RECEIVED
 Office of Oil and Gas
 MAY 30 2014
 WV Department of
 Environmental Protection

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 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.

08/08/2014

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

10220 6781 6112

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: Ms. Kay Holtsclaw
 WVDEP Office Oil and Gas
 601 57th Street, SE
 Charleston, WV 25304

PS Form 3800, June 2008

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

10220 6781 6112

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: Gary Kennedy
 P.O. Box 268
 Nimitz, WV 25978

PS Form 3800, June 2008

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

6781

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: Caretta Minerals LLC
 P.O. Box 309
 Prosperity, WV 25909

PS Form 3800, June 2008

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

10220 6781 6112

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: Alawest, Inc.
 P.O. Box 920
 Welch, WV 24801

PS Form 3800, June 2008

RECEIVED
 Office of Oil and Gas
 MAY 24 2014
 WV Department of
 Environmental Protection

47061899

4700189A

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 047 - 00189
Operator's Well No. 10220

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 Mountain Fork Quadrangle Gary, WV

Elevation 1725 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
- 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.)

[Handwritten initials]

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
Office of Oil and Gas
MAY 30 2014

Subscribed and sworn before me this 29th day of May, 20 14

Beverly A. Webb

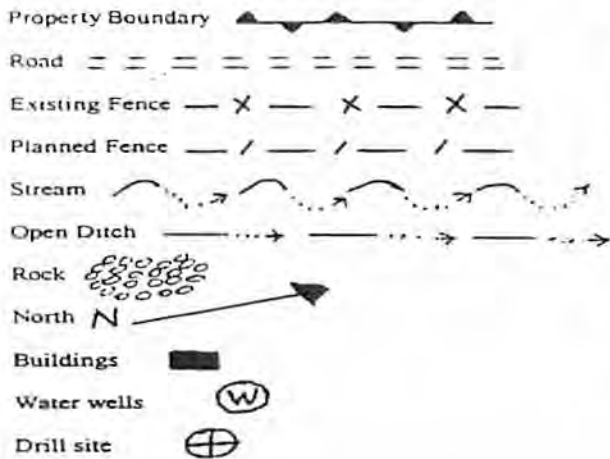
Notary Public Department of Environmental Protection

My commission expires _____

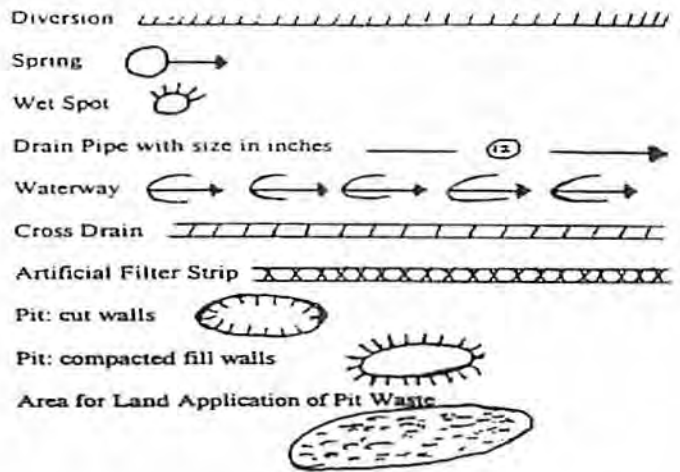
BEVERLY A. WEBB
NOTARY PUBLIC
Commonwealth of Virginia
Reg. #7502381
My Commission Expires June 30, 2015

08/08/2014

4700189P



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.5 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: _____

Title: Inspector

Date: 5/22/14

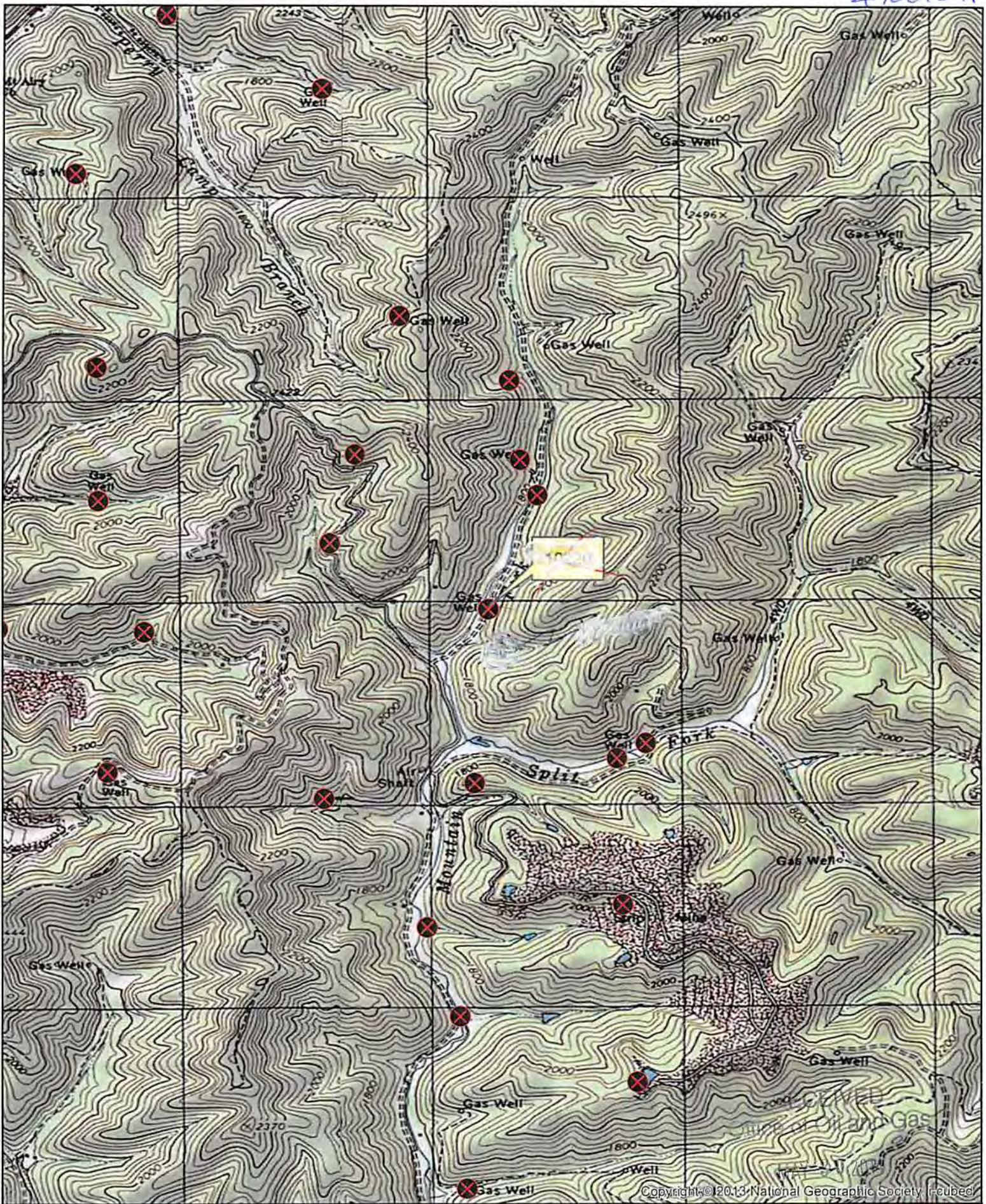
Field Reviewed? Yes No

RECEIVED
Office of Oil and Gas

MAY 30 2014

WV Department of
Environmental Protection

08/08/2014



Copyright © 2013 National Geographic Society. Reprinted.

Disclaimer: This information is being provided as a business or professional courtesy. Consol Energy Inc., its subsidiaries and affiliates, collectively "CEI", make no representations or warranties of any kind or character concerning the completeness or accuracy of this information and assumes no responsibility or liability of any kind for such information. The Recipient of this information acknowledges and assumes all risk of the use of such information. In consideration of CEI providing this information, the recipient forever waives and releases any and all claims or causes of action the Recipient may ever have against CEI, its officers, directors, employees or agents relating to or resulting or arising from its use of the information. Acceptance of this information by the recipient constitutes agreement with all the terms and conditions in the notice

[Handwritten signature]



0 500 1,000 Feet	
Date: 5/9/2014	Prepared By: KK
Revisions:	Approved By: BS

WV Dept of Environmental Protection
CONSOL ENERGY
PROPOSED PLUGGING
WELL
APR 47-047-00189
08/08/2014
GENERAL LOCATION MAP

WW-7
8-30-06



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

API: 47-047-00189 WELL NO.: 10220

FARM NAME: Olga Coal Company

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: McDowell DISTRICT: Big Creek

QUADRANGLE: Gary, WV

SURFACE OWNER: Alawest, Inc.

ROYALTY OWNER: Alawest, Inc.

UTM GPS NORTHING: 4,132,985 m

UTM GPS EASTING: 445,251 m GPS ELEVATION: 539 m (1768')

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

RECEIVED
Office of Oil and Gas

AUG 5 2014

WV Department 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.

Bob Staton
Signature

Permit Agent
Title

8/5/14
Date