



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 03, 2014

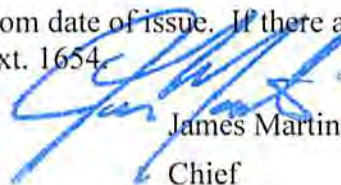
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5500137, 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: 11199 (BLUE JAY 15-633)
Farm Name: NATURAL RESOURCES DIV.
API Well Number: 47-5500137
Permit Type: Plugging
Date Issued: 04/03/2014

Promoting a healthy environment.

04/04/2014

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. 11199
3) API Well No. 47-055-00137

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 2369 ft. Watershed Mash Fork
District Jumping Branch County Mercer Quadrangle Odd, WV

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 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 plugging procedures

Received

FEB 10 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 2/4/14

04/04/2014

API 47-55-00137 Plugging Procedure

1. Verify total depth 4085'.
2. Run free-point survey on 4-1/2" casing. *SHOULD BE CEMENTED TO 1000' DEPTH. 7000/1000'*
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. *≈ 1000'*
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. 587') Pull remaining 4-1/2" out of well.
- ~~6. Run free-point survey on 8-5/8" casing. *8 5/8 IS CEMENTED TO SURFACE*~~
7. Run tubing to previous cement top (587'). 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. *11 3/4" IS NOT CEMENTED. PULL IT.*~~
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. *GRout BEHIND 8 5/8" FROM 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.

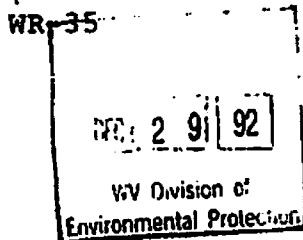
OK *jam*
4/2/2014

JMK
RECEIVED
Office of Oil and Gas

FEB 25 2014

WV Department of
Environmental Protection

04/04/2014



26-Aug-92
API # 47- 55-00137

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: NATURAL RESOURCES DIV. Operator Well No.: BLUE JAY 15-633

LOCATION: Elevation: 2369.00 Quadrangle: ODD

District: JUMPING BRANCH County: MERCER
Latitude: 10640 Feet South of 37 Deg. 32Min. 30 Sec.
Longitude 410 Feet West of 81 Deg. 10 Min. 0 Sec.

Company: STONEWALL GAS COMPANY
909 E. MAIN ST. P.O. BOX 1575
RICHMOND, VA 23213-0000

Agent: JESSE A. SHELL

Inspector: RODNEY G. DILLON
Permit Issued: 08/28/92
Well work Commenced: 10-12-92
Well work Completed: 10-27-92
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 4085
Fresh water depths (ft) 289, 375

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	40	40	NONE
8 5/8	487	487	150 SKS
4 1/2	4064	4064	590 SKS

CRS
UP TO 1000'

Salt water depths (ft) _____
NONE REPORTED
Is coal being mined in area (Y/N)? N
Coal Depths (ft): NONE REPORTED

OPEN FLOW DATA

Producing formation WEIR Pay zone depth (ft) 3928
Gas: Initial open flow 169 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1710 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 405 psig (surface pressure) after 168 Hours

Second producing formation LIME/MAXTON Pay zone depth (ft) 2811/2264
Gas: Initial open flow 223 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1710 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 405 psig (surface pressure) after 168 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

04/04/2014

MEP 0137

3	STAGES WATER/ACID	FRAC	11-05-92	DATE	
ZONES	PERFS	HOLES	BBL	BBP	ISIP
WEIR	3928-3958	18	800	1855	87
BIG LIME	2811-2819	16	15000	3730	504
MAXTON	2264-2272	16	600	2330	450

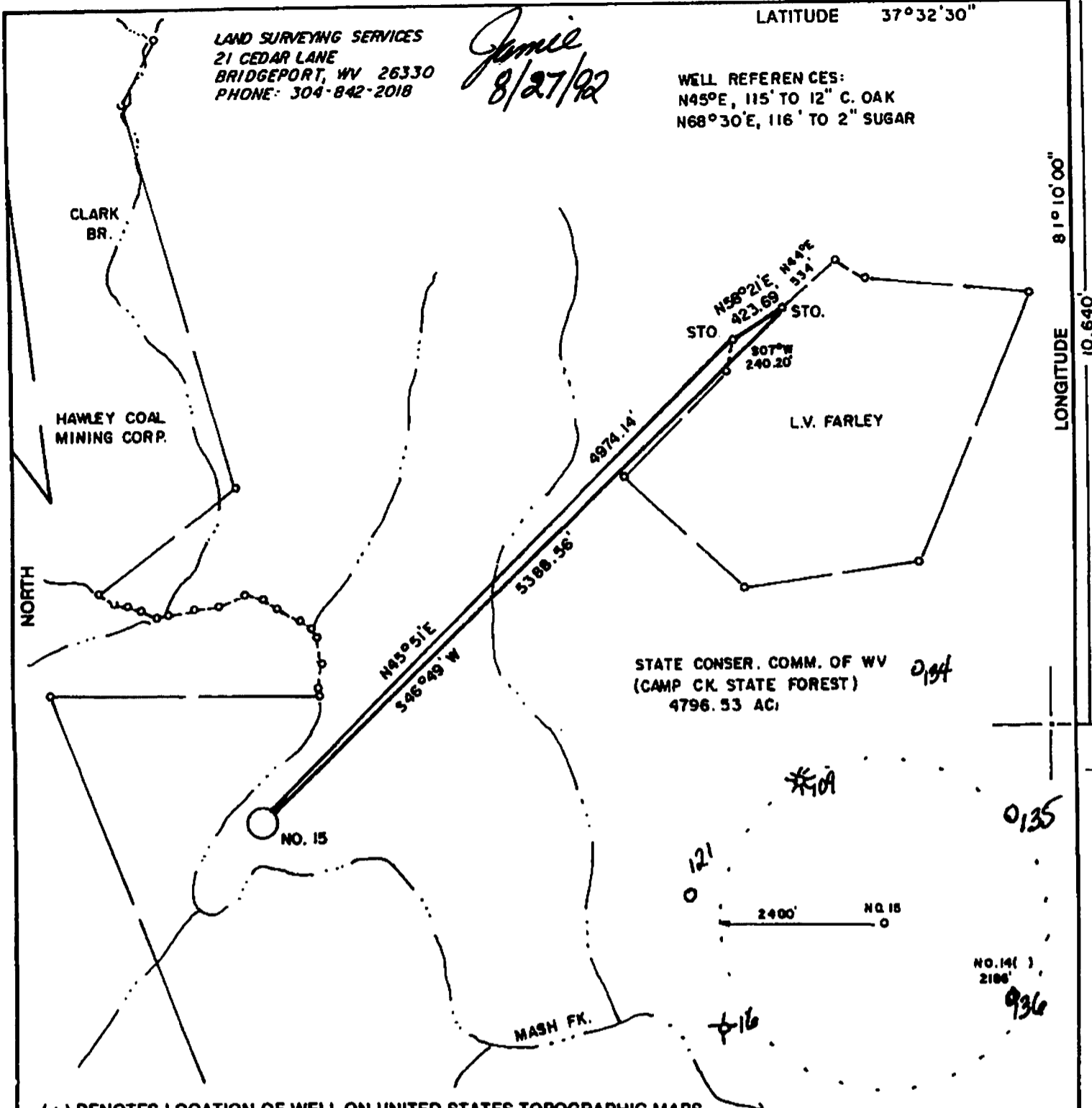
FORMATION	COLOR	HARD /SOFT	TOP	BOTTOM	REMARKS
SAND	BROWN	SOFT	0	120	GAS CK @ 2005 NO SHOW
SANDY SHALE & RR	GRAY	SOFT	120	375	
SAND	GRAY	SOFT	375	400	2129 NO SHOW
SANDY SHALE	GRAY	HARD	400	540	2314 30/10 1" W/W
SAND	BROWN	HARD	540	556	2747 36/10 1" W/W
SANDY SHALE	BROWN	HARD	556	735	2898 28/10 1" W/W
SAND	BROWN	SOFT	735	850	
SANDY SHALE	GRAY	SOFT	850	890	3207 22/10 1" W/W
SAND	GRAY	SOFT	890	895	3605 40/10 1" W/W
SANDY SHALE	GRAY	HARD	895	950	3977 16/10 2" W/W
SAND	BROWN	HARD	950	1020	
SANDY SHALE	GRAY	HARD	1020	1710	
SAND	GRAY	HARD	1710	1912	
SANDY SHALE	GRAY	SOFT	1912	2035	
SAND	GRAY	SOFT	2035	2095	
SANDY SHALE	BROWN	SOFT	2095	2190	
SAND	BROWN	HARD	2190	2302	
SANDY SHALE	BROWN	HARD	2302	2370	
LIME	GRAY	HARD	2370	3575	
RED SAND	GRAY	SOFT	3575	3600	
SANDY SHALE	GAY	SOFT	3600	3845	
SAND	BROWN	HARD	3845	3965	
SANDY SHALE	BROWN	HARD	3965	4085	
TD			4085		

LATITUDE 37°32'30"

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

Janice
8/27/92

WELL REFERENCES:
N45°E, 115' TO 12" C. OAK
N68°30'E, 116' TO 2" SUGAR



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 2500
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1450' N.E. OF LOCATION ELEV. 2577'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.

(SIGNED) *[Signature]*

R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE FEBRUARY 13, 1992
 OPERATOR'S WELL NO. BLUE JAY NO. 15
 API WELL NO.

47 - 055 - 0137
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 2369' WATERSHED MASH FORK
 DISTRICT JUMPING BRANCH COUNTY MERCER
 QUADRANGLE OOD 7.5 min.

SURFACE OWNER STATE CONSERVATION COMMISSION OF WV ACREAGE 4796.53
 OIL & GAS ROYALTY OWNER BLUE JAY LUMBER CO. LEASE ACREAGE 7692.82 04/04/2014

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION WEIR ESTIMATED DEPTH 3900'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT JESSE SHELL
 ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R
 JANE LEW, WV 26378 JANE LEW, WV 26378

FORM W.

COUNTY NAME

PERMIT

5500137P

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
11199
3) API Well No.: 47 - 055 - 00137

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>WVDNR - WV State Parks</u>	Name <u>none</u>
Address <u>324 4th Avenue</u>	Address _____
<u>South Charleston, WV 25303</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>LTBJL Company</u>
_____	Address <u>249 Blue Jay Drive</u>
(c) Name _____	<u>Blue Jay, WV 25813</u>
Address _____	Name _____
_____	Address _____
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>	_____

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 Fanning*
 Its: Attorney-in-Fact
 Address 2481 John Nash Blvd
Bluefield, WV 24701
 Telephone 304-323-6568

Received

MAR 24 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 20th day of March 2014

My Commission Expires June 30, 2015

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.

04/04/2014

7009 0080 0000 3797 3496

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Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To: LTBJL Company 249 Blue Jay Drive Blue Jay, WV 25813		
Street, Apt. or PO Box		
City, State, ZIP+4®		

PS Form 3800, August 2006 See Reverse for Instructions

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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To: West Virginia Conservation Agency Gus R. Douglass Agricultural Center 1900 Kanawha Blvd East Charleston, WV 25305		
Street, Apt. or PO Box		
City, State, ZIP+4®		

PS Form 3800, August 2006 See Reverse for Instructions

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7009 0080 0000 3797 3526

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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To: Pardee & Curtain Realty LLC 340 McCorkle Ave. Suite 300 Charleston, WV 25314		
Street, Apt. or PO Box		
City, State, ZIP+4®		

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Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To: Gary Kennedy PO Box 268 Nimitz, WV 25978		
Street, Apt. or PO Box		
City, State, ZIP+4®		

PS Form 3800, August 2006 See Reverse for Instructions

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~~OFFICIAL USE~~ WV 2013 Annual Insp. Report

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To: WV Division of Environmental Protection Office of Oil and Gas Attn: Permitting 601 57th Street Charleston, WV 25304		
Street, Apt. or PO Box		
City, State, ZIP+4®		

PS Form 3800, August 2006 See Reverse for Instructions

7009 0080 0000 3797 3205

Received

FEB 10 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/04/2014

5500137P

7012 1640 0001 1805 6664

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OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Pardee & Curtin 1 Curtin Road Webster Springs, WV 26288		
Sent		
Signature or PC		
City, State, ZIP+4		

PS Form 3800, August 2005 See Reverse for Instructions

7012 1640 0001 1805 6657

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

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total WVDNR - WV State Parks 324 4 th Avenue South Charleston, WV 25303		
Sent		
Signature or PC		
City, State, ZIP+4		

PS Form 3800, August 2005 See Reverse for Instructions

Received

MAR 24 2010

**Office of Oil and Gas
WV Dept. of Environmental Protection**

5500137A

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 055 - 00137
Operator's Well No. 11199

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 Mash Fork Quadrangle Odd, WV

Elevation 2369 ft. County Mercer District Jumping Branch

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

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

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.

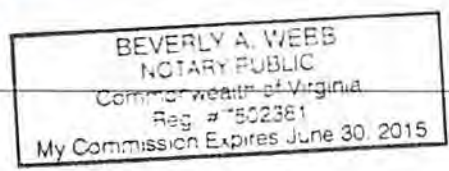
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is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

Subscribed and sworn before me this 6th day of February, 20 14

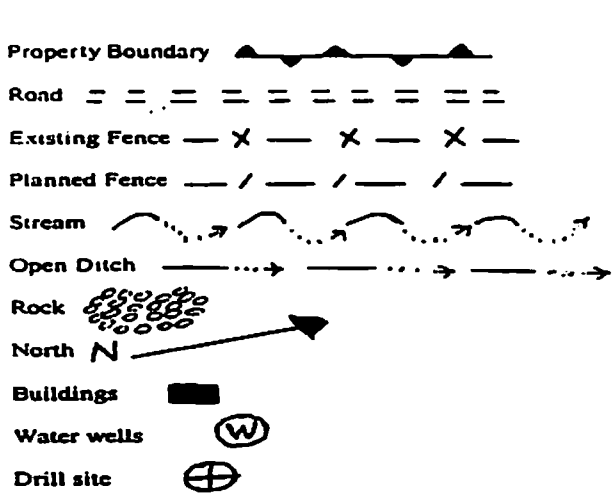
Beverly A. Webb Notary Public

My commission expires 6/30/14

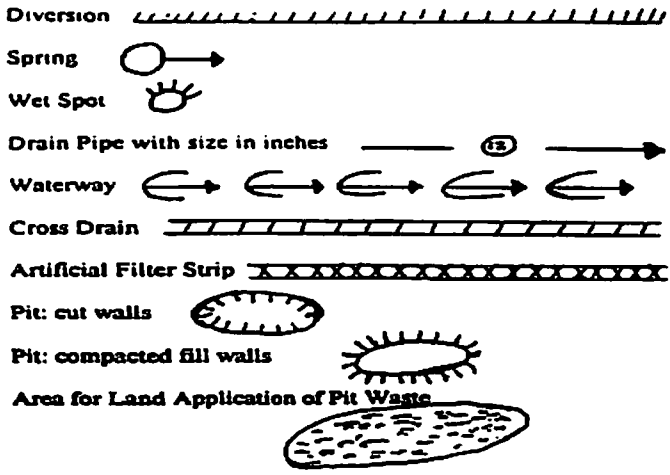


Received

FEB 10 2014



LEGEND



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

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.

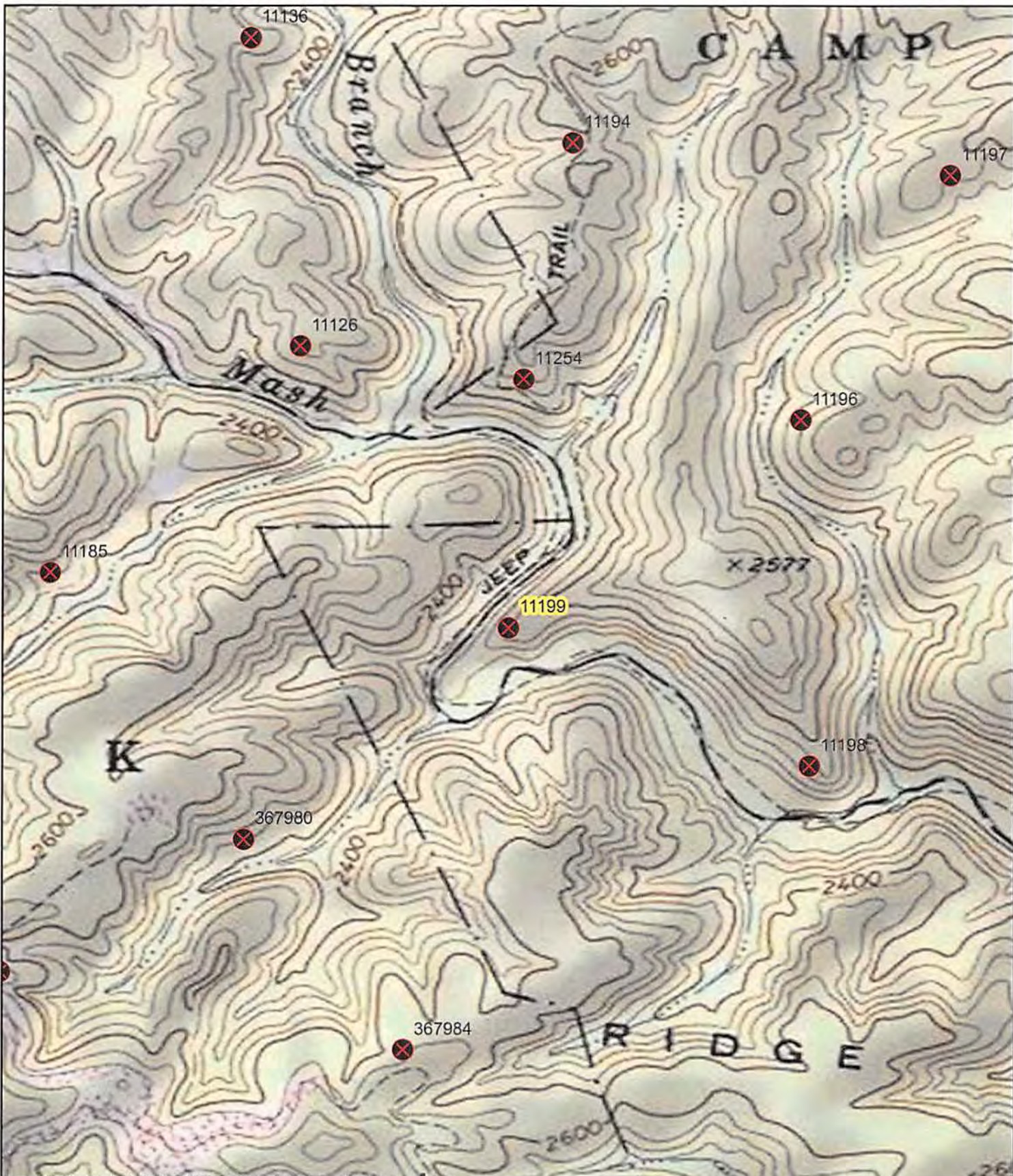
Received

Plan Approved by: *Thing Kennedy* FEB 10 2014

Comments: _____ Office of Oil and Gas
WW Dept. of Environmental Protection

Title: *Inspector* Date: *2/4/14*

Field Reviewed? Yes No



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FEB 10 2014
 Office of Oil and Gas
 (D...)
 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 11199
 API# 47-055-00137
 GENERAL LOCATION MAP

04/04/2014

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-055-00137 WELL NO.: 11199

FARM NAME: Hawley Coal Mining Corp.

RESPONSIBLE PARTY NAME: CNX Gas Co. LLC

COUNTY: Mercer DISTRICT: Jumping Branch

QUADRANGLE: Odd, WV

SURFACE OWNER: WVDNR - WV State Parks

ROYALTY OWNER: Liquid. Trustees Blue Jay Lumber

UTM GPS NORTHING: 4,151,749 m

UTM GPS EASTING: 485,173 m GPS ELEVATION: 740 m *2427.20 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 _____

Received

MAR 24 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]
Signature

Production Coord.
Title

3-20-14
Date