



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 27, 2013

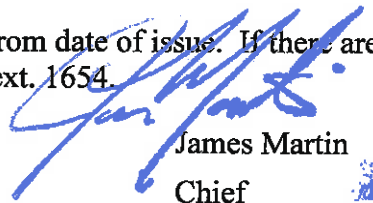
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3300707, 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: 8143
Farm Name: ZIRKLE, JOHN H.
API Well Number: 47-3300707
Permit Type: Plugging
Date Issued: 08/27/2013

Promoting a healthy environment.

WW-4B
Rev. 2/01

1) Date May 7, 20 13
2) Operator's Well No. 8143
3) API Well No. 47-033 - 00707

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 1105.55 Watershed Isaacs Creek
District Union County Harrison 33 Quadrangle West Milford 669

6) Well Operator CNX Gas Company LLC 7) Designated Agent Jeremy Jones
Address P.O. Box 1248 Address P.O. Box 1248
Jane Lew, WV 26378 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified Name Samuel Ward
Address 601 57th Street SE
Charleston, WV 25304
9) Plugging Contractor Name Viking Well Service
Address 8113 Sissonville Drive
Sissonville, WV 25320

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

Received

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

AUG - 1 2013

Work order approved by inspector

S. P. D. W...

Office of Oil and Gas
WV Dept. of Environmental Protection

Plugging Work Order for Permit 47-033-00707

WN 8143

1. Load hole and establish injection down 3.5" csg.
2. Pump cement plug 3000 – TD
3. Displace with gell
4. Free point 3.5" csg
5. Cut 3.50" casing at free point (est. 2000')
6. Pull one joint
7. Pump cement plug 1900' – 2000'
8. Displace with gell
9. TOOH with 3.50" casing
10. Free point and cut 5.50" casing (est. 1500')
11. TOOH with 5.50" casing
12. Attempt to pull 7.00 If unable perforate 7.00" casing at 1500', 1150', 700', 200'
13. TIH with tubing to 1500'
14. Pump cement plug 1400' – 1500'
15. Pump cement plug 1050' – 1150'
16. Pump cement plug 600' - 700'
17. Pump cement plug 0 – 200'
18. Install 7"x 4' monument with API 47-33-707

62 gal between plugs

Work Order approved by inspector

S. L. DeWane

Date 5/9/2013

Received

AUG -1 2013

WN 8143

PERMIT 47-033-0702
ELEV. 1102

NO COAL
NO WATER

PACKER @ 1544'

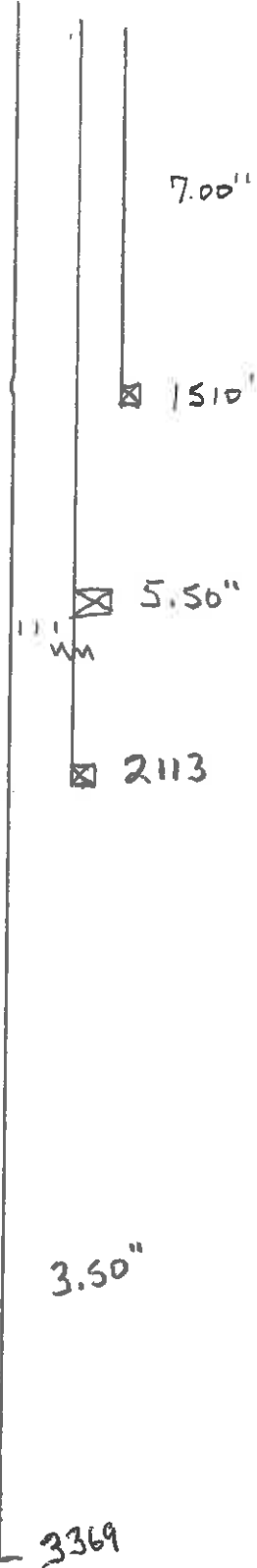
CUT 5.50" @ 1595'

FIFTY FOOT 1899'

FIFTH SAND 2300'

PERKS 3240-3279

BALTDOWN



Received

AUG - 1

3300207P

NO. 665-8113 & P. 24 5th

LEASE NO. 52917 RECORD 130

DISTRICT 155 S-19 CASING AND TUBING

COUNTY Harrison

FORMATION TOP BOTTOM OIL AT GAS AT WATER AT FRESH OR SALT

LOCATED Oct. 27, 1916

Pittsburgh Coal Below 18 In. Casing

COMMENCED Nov. 10, 1916

Dunbar Sand 475 670 (400-610) 10 In. Casing

COMPLETED Mar. 24, 1917

Salt Sand 850 1000 (100-930) 8 In. Casing

CONTRACTOR D. S. Reel

Maxon Sand 1360 1400 6 In. Casing

PURCHASED FROM * 47-033-707

Injun Sand 1500 1638 5 1/2 In. Casing

DATE PURCHASED

Berea Sand 1456 1500 3 In. Tubing

DATE SHUT IN

Gartz Sand 1898 1928 3 In. Tubing

DATE CONNECTED

Fifty Foot Sand 1899 1928

DATE TURNED ON

Thirty Foot Sand

DATE TURNED OFF

Stray Sand

DATE DISCONNECTED

Gordon Sand

DATE RE-PURCHASED

Fourth Sand

SHOOTING DATE QTS. SAND VOLUME BEFORE VOLUME AFTER 7-30-73 FRAC. Baltimore 539,000

DATE ABANDONED DATE PLUGGED DATE RE-PURCHASED DATE DISCONNECTED DATE TURNED OFF DATE TURNED ON DATE CONNECTED DATE SHUT IN DATE PURCHASED FROM CONTRACTOR COMPLETED COMMENCED LOCATED COUNTY NO. MERGER TO HOPE NATURAL GAS CO. * TOTAL DEPTH 3351' Below Top of 9 1/2" 3351'

VOLUME AND PRESSURE TESTS

PACKERS DATE TAKEN READING LIQUID OPENING POUNDS PRESSURE 1 MIN. 5 MIN. 10 MIN. 30 MIN. 60 MIN. ROCK VOLUME SAND SIZE MAKE SET AT

Main data table with columns for DATE TAKEN, READING, LIQUID, OPENING POUNDS PRESSURE, 1 MIN., 5 MIN., 10 MIN., 30 MIN., 60 MIN., ROCK, VOLUME, SAND, SIZE, MAKE, SET AT.

ESTIMATED BBL. WELL

initial oil production

Office of Oil and Gas Environmental Protection

3300707P

WW-4A
Revised 6-07

1) Date: May 7, 2013
2) Operator's Well Number 8143

3) API Well No.: 47 - 033 - 00707

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

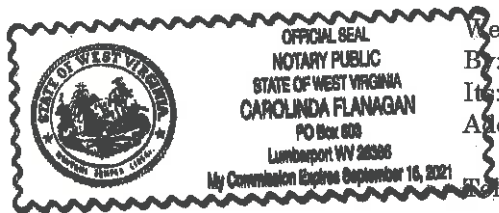
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>John H. Zirkle</u> ✓	Name <u>None of Declaration</u>
Address <u>Rt. 2 Box 197E4</u>	Address _____
<u>Jane Lew, WV 26378</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name _____
_____	Address _____
Telephone _____	_____

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:	<u>Jeremy Jones</u>
Its:	General Manager WV Operations
Address	P.O. Box 1248
	Jane Lew, WV 26378
Telephone	304 - 884 - 2000

Handwritten signature of Jeremy Jones

Subscribed and sworn before me this 29TH day of JULY 2013
Carolinda Flanagan Notary Public
 My Commission Expires 9/15/2021

Received

Oil and Gas Privacy Notice

AUG - 1 2013

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 depprivacyoffier@wv.gov.

3300707P

WW-9
Rev. 05/10

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

Page _____ of _____

API NUMBER 47- 033 - 00707

Operator's Well No. 8143

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 494495754

Watershed ISAACS CREEK Quadrangle WEST MILFORD

Elevation 1105.55' County HARRISON District UNION

Description of anticipated Pit Waste: FLUIDS ASSOCIATED WITH THE PLUGGING OF EXISTING GAS WELLS

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a synthetic liner be used in the pit? YES If so, what ml? 10-20mk

Proposed Disposal Method For Treated Pit Wastes:

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

SDW
5/9/2018

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR

If oil based, what type? Synthetic, petroleum, etc. NOT OIL BASED

Additives to be used? NONE

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LEAVE IN PIT

If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust CEMENT

Landfill or offsite permit number? NONE

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 Division 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.

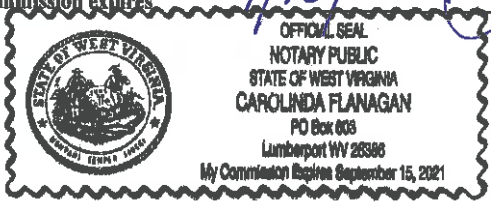
Company Official Signature _____ *Jeremy Jones*

Company Official (Typed Name) JEREMY JONES

Company Official Title GENERAL MANAGER WV OPERATIONS - DESIGNATED AGENT

Subscribed and sworn before me this 29TH day of JULY, 20 13
Carolinda Flanagan Notary Public

My commission expires 9/15/2021



Received
AUG - 1 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

LEGEND

Property Boundary		Diversion	
Road		Spring	
Existing Fence		Wet Spot	
Planned Fence		Drain Pipe with size in inches	
Stream		Waterway	
Open Ditch		Cross Drain	
Rock		Artificial Filter Strip	
North		Pit: cut walls	
Water wells		Pit: compacted fill walls	
Drill Site		Area for Land Application of Pit Waste	

Proposed Revegetation Treatment: Acres Disturbed 0.75 Prevegetation pH 6.5
 Lime according to pH test Tons/acre or correct to pH 7.0
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch HAY OR STRAW 2 Tons/acre

Seed Mixtures

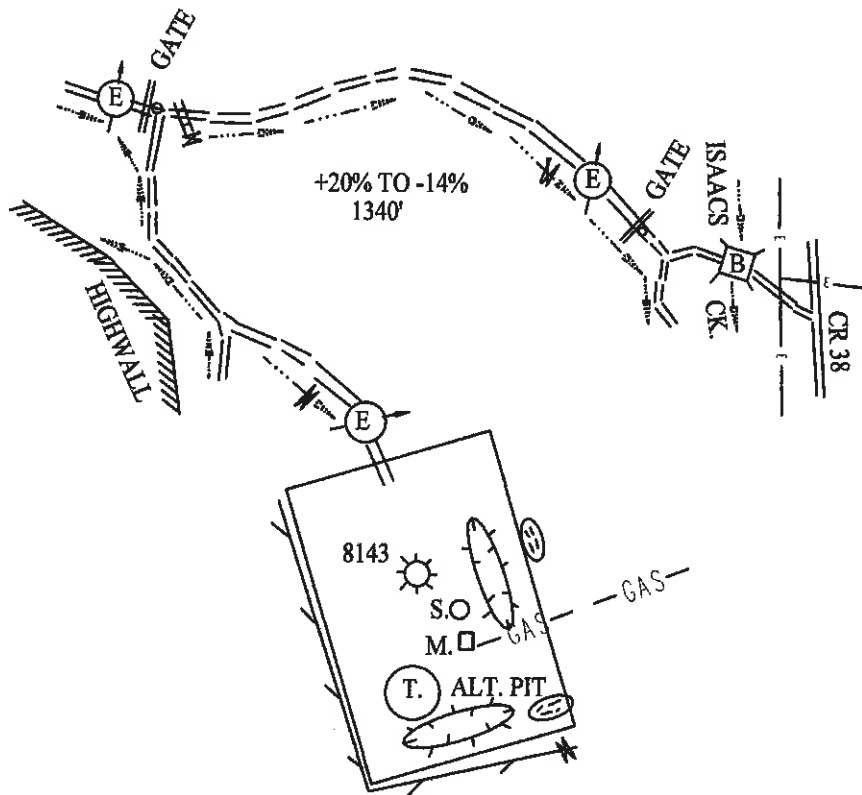
Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
ORCHARDGRASS	25	ORCHARDGRASS	25
BIRDSFOOT TREFOIL	15	BIRDSFOOT TREFOIL	15
LADINO CLOVER	10	LADINO CLOVER	10

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. Wansett
 Title: Oil & Gas Inspector Date: 5/9/2013
 Field Reviewed? () Yes (X) No



THIS PLAN IS FOR THE PLUGGING OF AN EXISTING GAS WELL. ENTIRE LENGTH OF ACCESS ROAD IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

DRAWINGS TO ACCOMPANY FORM WW-9	
CNX GAS COMPANY LLC	
P. O. BOX 1248	
JANE LEW, WV 26378	
WATERSHED:	ISAACS CREEK
DISTRICT:	UNION COUNTY: HARRISON
QUADRANGLE:	WEST MILFORD WELL NO.: 8143
DATE:	05/06/13 PAGE ____ of ____

Received

AUG - 1 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018 OR 5762

3300707 P

LAND SURVEYING SERVICES

Stephen D. Losh, PS J. Michael Evans, PS 21 Cedar Lane Bridgeport, WV 26330
Phone & Fax (304) 842-2018 E-mail: sdlosh@frontier.com

May 06, 2013

DRIVING DIRECTIONS FOR CNX 8143

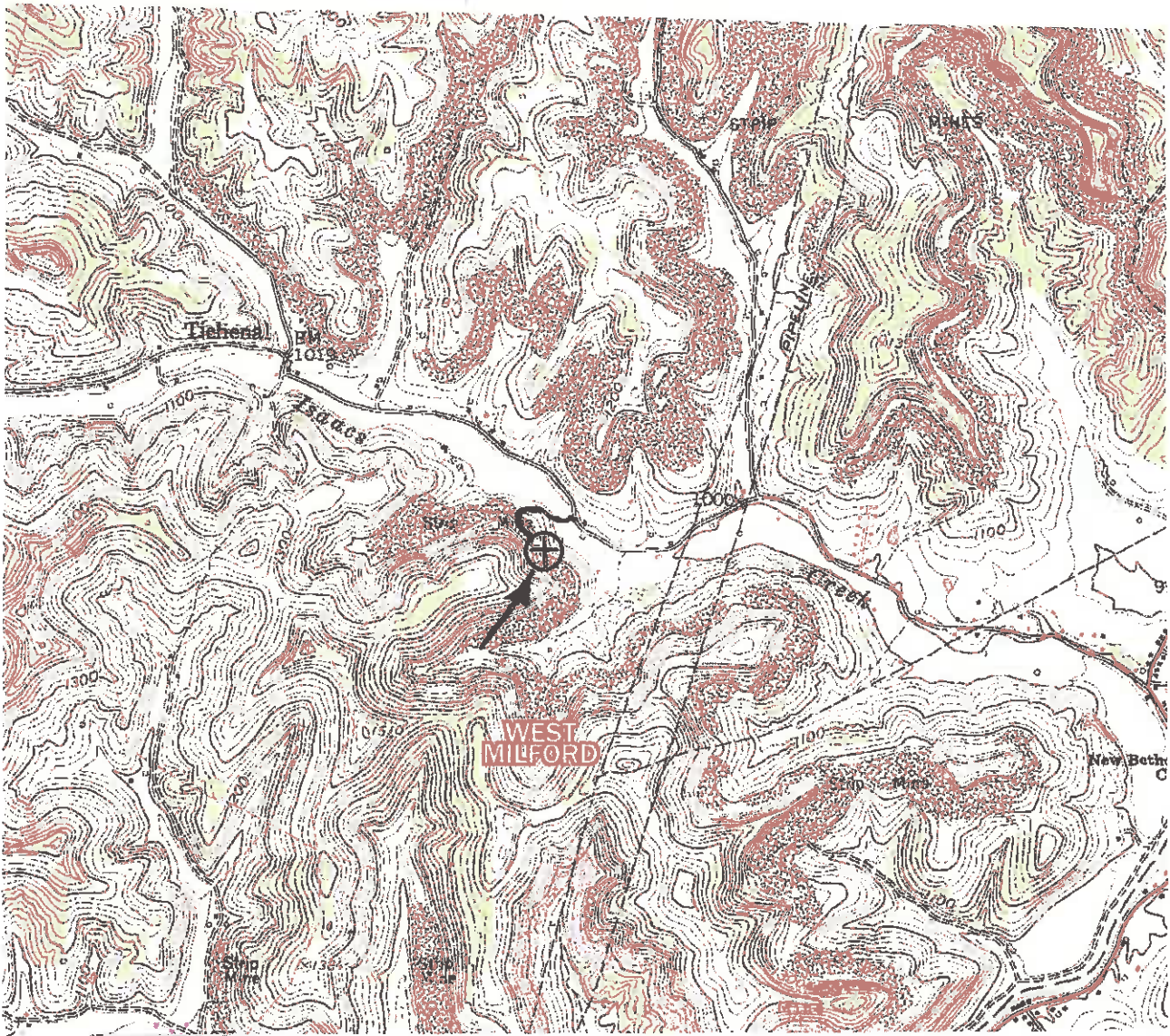
Traveling north on U. S. Rt. 19 from Jane Lew, go to Good Hope and turn left on Isaacs Creek Road (CR 38). Go 1.40 miles and turn left on the well road.

Nearest Fire Station: West Milford

Received

AUG - 1 2013

Office of Oil and Gas
Environmental Protection



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: ISAACS CREEK

DISTRICT: UNION COUNTY: HARRISON

QUADRANGLE: WEST MILFORD WELL NO.: 8143

DATE: 05/06/13 PAGE of

Received

AUG - 1 2013

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 5762

Office of Oil and Gas
 WV Dept. of Environmental Protection

3300707A

WW-7
5-02



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

API: 47-033-00707 WELL NO.: 8143

FARM NAME: G. P. MCCONKEY

RESPONSIBLE PARTY NAME: CNX GAS COMPANY LLC

COUNTY: HARRISON DISTRICT: UNION

QUADRANGLE: WEST MILFORD 7.5 MIN.

SURFACE OWNER: JOHN H. ZIRKLE

ROYALTY OWNER: WV WESLEYAN COLLEGE

UTM GPS NORTHING: 4,337,355.79 METERS

UTM GPS EASTING: 546,122.10 METERS GPS ELEVATION: 336.97 METERS 1105.59 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 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 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

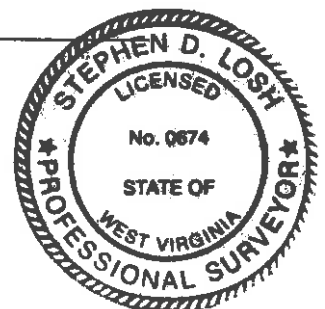
I the undersigned hereby state this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulation issued and prescribed by the Office of Oil and Gas.

Signature [Handwritten Signature]
Stephen D. Losh, PS #674

Title WV Professional Surveyor #674

Date 05/06/13

Received



CNX USE: NAD 27 WV NORTH SPC: 8143 = 250,646.51' 1,726,130.10' ELEV. = 1,105.55'