



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

June 09, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4700633, 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: 11872
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-4700633
Permit Type: Plugging
Date Issued: 06/09/2014

Promoting a healthy environment.

1) Date: _____
2) Operator's Well Number 11872
3) API Well No.: 47 - 047 - 00633

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>Pocahontas Land Corporation</u>	Name _____
Address <u>PO Box 1517</u>	Address _____
<u>Bluefield, WV 24701</u>	_____
(b) Name <u>see others attached</u>	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pocahontas Land Corp</u>
_____	Address <u>PO Box 1517</u>
(c) Name _____	<u>Bluefield, WV 24701</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 268</u>	Name _____
<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 304-32-6568

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this _____ day of _____
Notary Public

My Commission Expires _____

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 depprivacyoffier@wv.gov.

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11872 Bob

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

Sent To: Pocahontas Land Corporation
P.O. Box 1517
Bluefield, WV 24701

Street, Apt or PO Box
City, State

PS Form 3800

Postmark: MAY 2 2014

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent To: McDowell Pocahontas Coal Company
P.O. Box 187
Tazewell, VA 24651

Street, Apt or PO Box
City, State

PS Form 3800

Postmark: MAY 2 2014

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

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

Street, Apt or PO Box
City, State

PS Form 3800

Postmark: MAY 12 2014

7013 2630 0001 5770 5386

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

Sent To: WV DEP Office of Oil & Gas
ATTN: Kay Holtsclaw
601 57th Street, SE
Charleston, WV 25304-2345

Street, Apt or PO Box
City, State

PS Form 3800

Postmark: MAY 12 2014

1) Date _____, 20____
2) Operator's
Well No. 11872
3) API Well No. 47-47 - 00633

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 1805 ft. Watershed Dry Fork
District Sandy River County McDowell Quadrangle Burdshaw, 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 work order procedures.

Received

MAY 14 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 5/8/14

API 47-47-00633 Logging Procedure

1. Verify total depth 4630'.
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 8-5/8" casing shoe. (Approx. 1823') Pull remaining 5-1/2" out of well.
6. Run free-point survey on 8-5/8" casing.
7. Run tubing to previous cement top (1823'). 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.
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.
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.

She

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD 4

Quadrangle Jaeger
Permit No. McD-633

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company <u>Consolidated Gas Supply Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Clarksburg, WV</u>	Size			
Farm <u>G. M. Evans</u> Acres <u>51.57</u>	20-16			
Location (waters) <u>Dry Fork</u>	Cond.			
Well No. <u>11872</u> Elev <u>1818</u>	3330 <u>11-3/4"</u>	708	708	To Surface
District <u>Sandy River</u> County <u>McDowell</u>	9 5/8			
The surface of tract is owned in fee by _____	8 5/8	1723	1723	196 SKS
<u>Pocahontas Land Corp.</u>	7			
Address <u>Bluefield, WV</u>	5 1/2	4608	4608	70 SKS
Mineral rights are owned by <u>G. M. Evans</u>	4 1/2			
Address _____	3			
Drilling Commenced <u>10-12-74</u>	2			
Drilling Completed <u>10-28-74</u>	Liners Used			
Initial open flow _____ cu. ft. _____ bbls.				
Final production <u>474M</u> cu. ft. per day _____ bbls.				
Well open <u>24</u> hrs. before test <u>823#</u> RP.				

Well treatment details:

Attach copy of cementing record.

Fractured with 600 bbls. water, 62,000# sand, 500 gal. acid.

Perforations: 4470 - 72, 4480 - 92

Coal was encountered at 834, 861, 988, 1069 Feet 48, 24, 24, 36, 24 inches
1117, 1435, 1489 Feet 36, 12 inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Berea Depth 4470 - 92

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	506		
Sand & Shale			506	557		
Sand			557	743		
Shale			743	751		
Sand			751	833		
Shale			833	834		
Coal			834	838		
Shale			838	861		
Coal			861	863		
Sand & Shale			863	988		
Coal			988	990		
Sand & Shale			990	1069		
Coal			1069	1072		
Sand & Shale			1072	1117		
Coal			1117	1119		
Sand & Shale			1119	1292		
Sand			1292	1435		
Coal			1435	1438		
Sand & Shale			1438	1489		
Coal			1489	1490		
Sand & Shale			1490	1695		
Sand-Shale-Red Rock			1695	1735		
Shale & Red Rock			1735	1869		
Sand & Shale			1869	1879		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet 4	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1879	1905		
Shale			1905	2037		
Sand			2037	2077		
Ravencliff			2077	2177		
Sandy Shale			2177	2256		
Red Rock			2256	2307		
Shale & Red Rock			2307	2323		
Sand			2323	2365		
Shale & Red Rock			2365	2423		
Sand & Shale			2423	2570		
U. Maxton			2570	2585		
Shale & Red Rock			2585	2725		
Maxton			2725	2830		
Sand & Shale			2830	2924		
L. Maxton			2924	3072		
Shale			3072	3149		
L. Lime			3149	3225		
Lime & Shale			3225	3289		
Big Lime			3289	3805		
Sandy Shale			3805	4121		
Shale			4121	4430		
Berea			4430	4512		
Shale			4512	4630		
Total Depth				4630	K. B.	
<u>Electric Log</u>						
Ravencliff			2041	2176		
Avis			2200	2255		
U. Maxton			2562	2587		
Maxton			2747	2827		
L. Maxton			3040	3075		
L. Lime			3138	3225		
B. Lime			3291	3814		
Berea			4434	4515		
Total Depth				4620		

K. B. Measurement 10' above G. L.

Date December 18, 19 74

APPROVED Consolidated Gas Supply Corp., Owner

By [Signature] MGR. of Prod.
(Title)

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 Dry Fork Quadrangle Bradshaw, WV

Elevation 1805 ft. County McDowell District Sandy River

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

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

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 _____)

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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. Office of Oil and Gas)

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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 MAY 14 2014

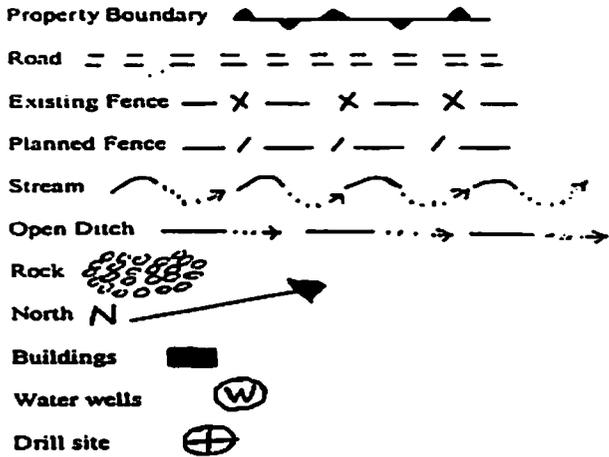
Company Official Title Supervisor

Office of Oil and Gas
WV Dept. of Environmental Protection

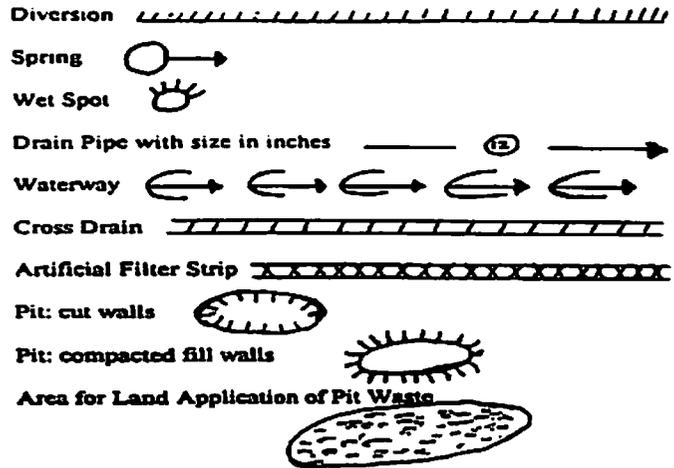
Subscribed and sworn before me this _____ day of _____, 20_____

Notary Public

My commission expires _____



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

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.

Received

MAY 14 2014

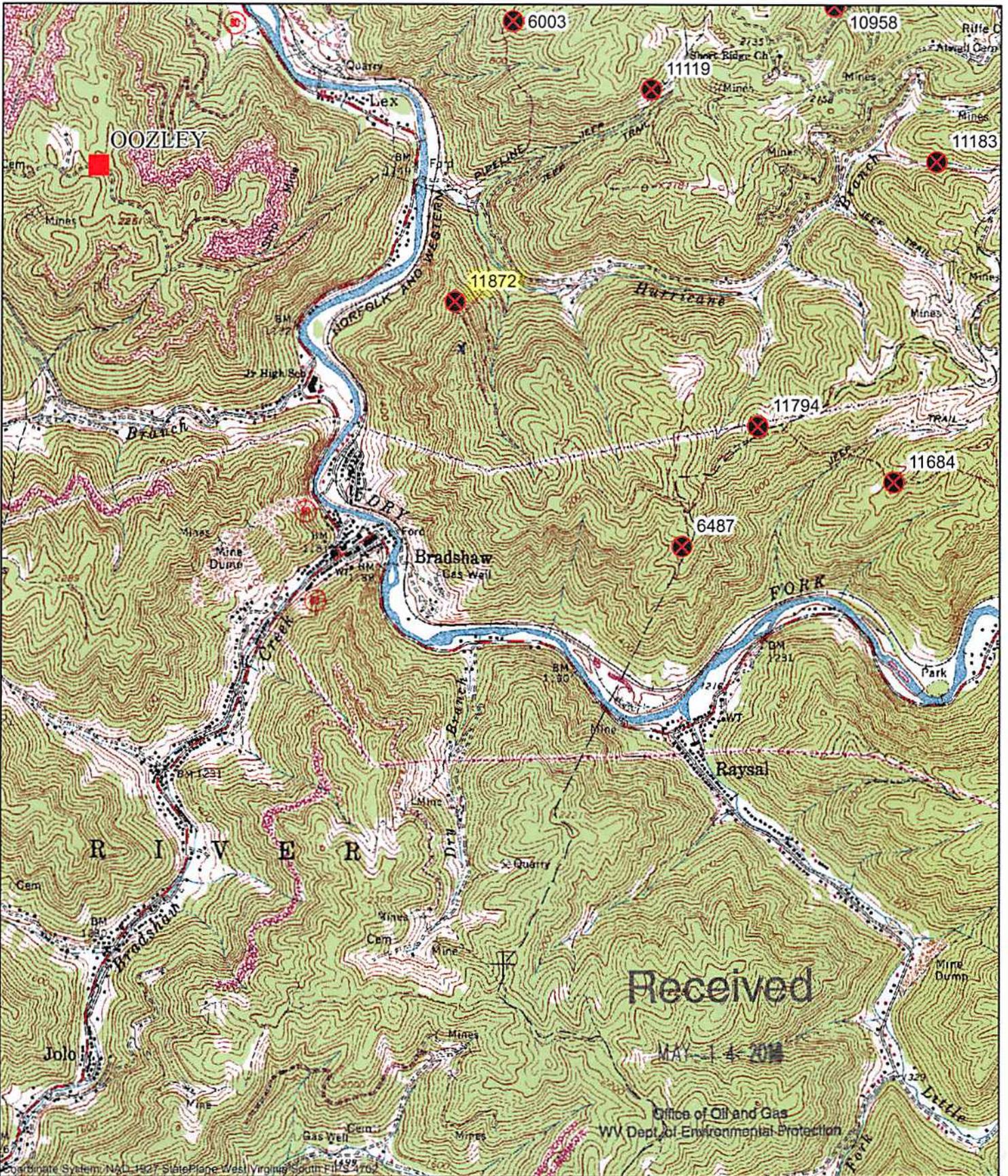
Plan Approved by: Dany Kennedy

Office of Oil and Gas
WV Dept. of Environmental Protection

Comments: _____

Title: Inspector Date: 5/8/14

Field Reviewed? Yes No



Coordinate System: NAD 1983 StatePlane West Virginia South FIPS 4702



**PROPOSED PLUGGING
WELL NUMBER 11872
API# 47-047-00633
GENERAL LOCATION MAP**

JK



2481 John Nash Blvd.
Bluefield, WV 24701

Orig. Date: 11/18/2013 Prepared By: KK

Rev. Date:

Rev. Date: Approved By: BS

1 inch = 2,000 feet



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-047-00633 WELL NO.: 11872

FARM NAME: Evans

RESPONSIBLE PARTY NAME: CNX Gas Co. LLC

COUNTY: McDowell DISTRICT: Sandy River 6

QUADRANGLE: Bradshaw, WV 261

SURFACE OWNER: Pocahontas Land Corp.

ROYALTY OWNER: Pocahontas Land Corps.

UTM GPS NORTHING: 4,135,112.27 m

UTM GPS EASTING: 429,642.63 m GPS ELEVATION: 550 m

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

Received

MAY 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

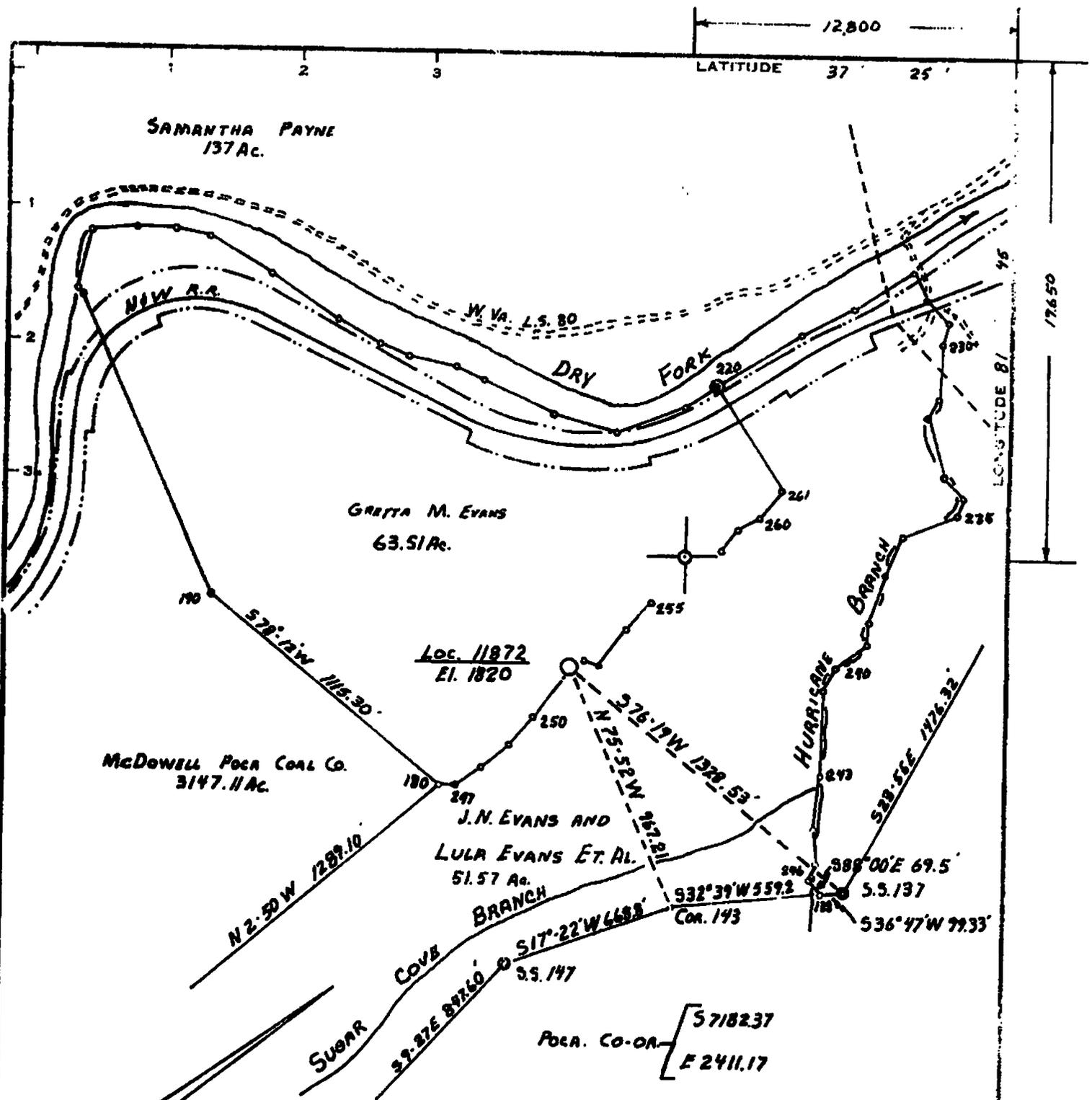
4. Letter size copy of the topography map showing the well location.

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

Inspector
Title
Prod. Coord.
CNX Gas

5/8/14
Date
5/12/14



Minimum Error of Closure: **1" IN 2500'**
 Source of Elevation: **LEVELS FROM U.S.C. & G.S. # N-195 STD. DISC. IN ROCK WALL, MOUTH OF HURRICANE BR. EL. 449.00'**
 "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 4 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location
 Drill Deeper
 Abandonment

MAP SHEET - 243W 5143, W69. F.B. 1692 P. 39-40, 1694 P. 15-16

Company **CONSOLIDATED GAS SUPPLY CORP.**
 Address **CLARKSBURG, W. VA.**
 Farm **GRAYTA M. EVANS**
 Tract Acres **63.51, 51.57** Lease No. **64872, 67818**
 Well (Farm) No. _____ Serial No. **11872**
 Elevation (Spirit Level) **1818'**
 Quadrangle **JARROA, C.E.**
 County **McDOWELL** District **SANDY RIVER**
 Engineer **JACKSON M. JARVIS**
 Engineer's Registration No. **2397**
 File No. _____ Drawing No. _____
 Date **AUG. 30, 1974** Scale **1" = 500'**

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

WELL LOCATION MAP
 FILE NO. **M^o D-633**

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. **47-047**

6742