



**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

October 17, 2014

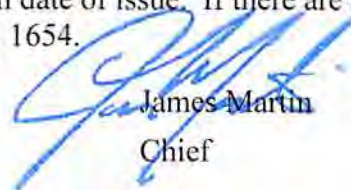
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-2101561, 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: A-227  
Farm Name: JONES, GILBERT  
**API Well Number: 47-2101561**  
**Permit Type: Plugging**  
Date Issued: 10/17/2014

Promoting a healthy environment.

10/17/2014

## 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

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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 under the terms of that agreement.

2101561P

WW-4B  
Rev. 2/01

1) Date 8/21, 2014  
2) Operator's  
Well No. 10619  
3) API Well No. 47-021 - 01561

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 1044.01' Watershed Little Ellis Creek  
District Glenville County Gilmer Quadrangle Gilmer
- 6) Well Operator CNX Gas Company LLC 7) Designated Agent Matt Imrich  
Address P.O. Box 1248 Address P.O. Box 1248  
Jane Lew, WV Jane Lew, WV
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Bryan Harris Name See Attached  
Address P.O. Box 157 Address \_\_\_\_\_  
Volga, WV 26238

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

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

Work order approved by inspector *Doug O'Han*

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Office of Oil and Gas  
Date 8-12-14  
AUG 28 2014

Attachment – Form WW-4B:

**Potential Plugging Contractors:**

Yost Drilling  
313 Steel Hill Rd.  
Mount Morris, PA 15349

Viking Well Service  
8113 Sissonville Drive  
Sissonville, WV 25320

Coastal Drilling  
130 Meadow Ridge Rd, STE 24  
Mount Morris, PA 15349

Waco  
P.O. Box 397  
Glenville, WV 26351

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## Plugging Work Order for Permit 47-021-01561

### CNX Gas - Well 10619

1. Verify 4-1/2" casing TD, and swab well dry.
2. Pump cement plug 2100' to TD. Displace w/ 4-1/2" wiper plug, and 6% gel to 2100'.
3. Wait on cement before cutting 4-1/2".
4. Free point and cut 4-1/2" at TOC (est. ~1800'). Pull up 2 feet.
5. Pump cement plug from cut @ ~1800' to surface using 4-1/2" csg., in 3ea. ~600' lifts.
6. TOH with 4-1/2" casing, and top off cement to surface.
7. Install 6" x 14' monument (10' below grade) API 47-021-01561

Work Order approved by Inspector *Greg O'Hara* Date: 8-12-14

Note: All cement will be Class A. All spacers between plugs will be 6% gel.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle \_\_\_\_\_

Permit No. **611-1561**

**WELL RECORD**

Oil or Gas Well **Oil**

Company **Allegheny Land & Mineral Co.**  
 Address **Clarksburg, W.Va.**  
 Farm **Rockash Minagh** Acres **61**  
 Location (waters) \_\_\_\_\_  
 Well No. **A-227** Elev. **1077.1**  
 District **Glennville** County **Gilmer**  
 The surface of tract is owned in fee by **Walter Jones Mrs.**  
 Address **Land Fork, W.Va.**  
 Mineral rights are owned by **Minagh Heare**  
 Address **Land Fork, W.Va.**  
 Drilling commenced **December 10, 1963**  
 Drilling completed **January 22, 1963**  
 Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow \_\_\_\_\_ /10ths Water in **No test** Inch  
 \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume **Show** Cu. Ft.  
 Rock Pressure **600** lbs. **30** hrs.  
 Oil **None** bbls., 1st 24 hrs.  
 WELL ACIDIZED \_\_\_\_\_  
 WELL FRACTURED **February 1, 1964 by Dowell- water, sand, acid.**

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	<b>15'</b>	<b>15'</b>	
13			
10			Size of
8 1/4	<b>883'</b>	<b>None</b>	
6 5/8			Depth set
5 3/16	<b>2336'</b>	<b>2336'</b>	
3			Perf. top <b>2236</b>
2			Perf. bottom <b>2240</b>
Liners Used			Perf. top <b>2293</b>
			Perf. bottom <b>2296</b>

CASING CEMENTED **4 1/2" SIZE 456** No. Ft. **1-23-64** Date  
**100 bags cement, 3 bags aquagel**

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT **Too much fluid for accurate test of gas - takes considerable**  
 ROCK PRESSURE AFTER TREATMENT **700 12 hr.** **oil**  
 Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	5			
Red Rock			5	60			
Sand			60	80			
Slate			80	126			
Red Rock			126	141			
Slate & shells			141	151			
Red Rock			151	170			
Slate			170	205			
Sand			205	230			
Red Rock			230	249			
Slate			249	320			
Red Rock			320	350			
Slate			350	431			
Red Rock			431	441			
Slate			441	475			
Sand			475	512			
Slate			512	535			
Red Rock			535	575			
Sand			575	600			
Red Rock			600	636			
Slate			636	665			
Sand			665	715			
Slate			715	729			
Red Rock			729	743			
Slate			743	754			
Sand			754	766			
Slate			766	813			
Red Rock			813	882			
Slate			882	945			
Sand			945	1002			

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
ate shells			1002	1215			
nd			1215	1265			
ate			1265	1275			
nd			1275	1336			
late			1336	1362			
nd			1362	1425			
late			1425	1500			
nd			1500	1530			
late			1530	1550			
nd			1550	1592			
late			1592	1616			
nd			1616	1725			
late & shells			1725	1930			
lme			1930	1940			
axon sand			1940	1990			
late			1990	2005			
ittle lime			2005	2030			
lue Monday			2030	2085			
ig lime			2085	2155			
ener			2155	2200			
njun			2200	2268	Gas	2235	how not tested
late- sandy			2268	2336			
otal depth			2336	2336			
4" casing perforated:			2236 to 2240	-- 16 holes			
			2293 to 2296	-- 12 "			

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Date February 3, 1964  
Allegheny Land & Mineral Co.  
 APPROVED \_\_\_\_\_, Owner  
Cleron Lawson, Malone, W. Va.  
 By \_\_\_\_\_  
 (Title)

WW-4A  
Revised 6-07

1) Date: 8/21/14  
2) Operator's Well Number  
10619  
3) API Well No.: 47 - 021 - 01561

**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>See Attached</u>	Name <u>None of Declaration</u>
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 157</u>	Name <u>None of Declaration</u>
<u>Volga, WV 26238</u>	Address _____
Telephone <u>304-533-6087</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: Matt Imrich *Kelly Eddy*  
 Its: Designated Agent - District Operations Superintendent, WV Gas Operations  
 Address P.O. Box 1248  
Jane Lew, WV 26378  
 Telephone 304-884-2009 - Amanda Wright, Permitting Supervisor



Subscribed and sworn before me this 21ST day of AUGUST 2014  
*Carolinda Flanagan* Notary Public  
 My Commission Expires 9/15/2021

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Office of Oil and Gas

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](mailto:depprivacyofficer@wv.gov).

WV Department of  
Environmental Protection  
10/17/2014



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 Little Ellis Creek Quadrangle Gilmer

Elevation 1044.01' County Gilmer District Glenville

Description of anticipated Pit Waste: Fluids associated with the plugging of existing gas wells

Will a synthetic liner be used in the pit? N/A 20 MIL **NO PIT?**

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental use vacuum trucks, and properly disposes fluid and waste returns)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

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 Kelly Eddy

Company Official (Typed Name) Matt Imrich

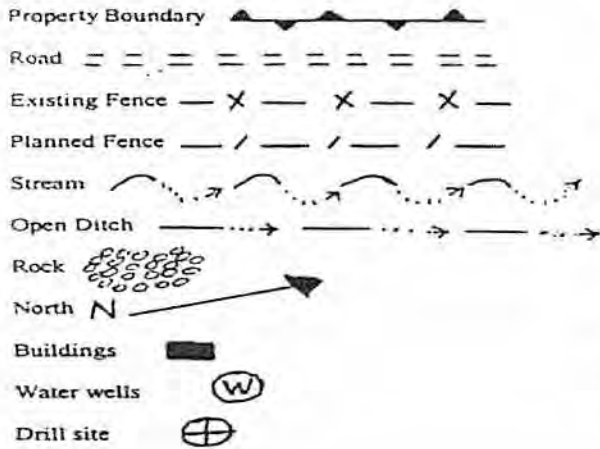
Company Official Title Designated Agent - District Operations Superintendent, WV Gas Operations

Subscribed and sworn before me this 21<sup>ST</sup> day of AUGUST, 2014 **RECEIVED**  
Office of Oil and Gas

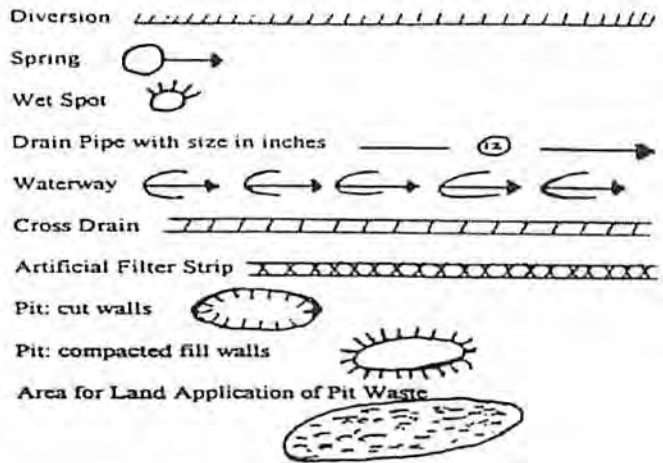
Charlinda Jay  
My commission expires 9/15/2021



10/17/2014



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.00 acres Prevegetation pH 6.5  
 Lime according to pH test Tons/acre or to 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

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
Orchard Grass	25	Orchard Grass	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.

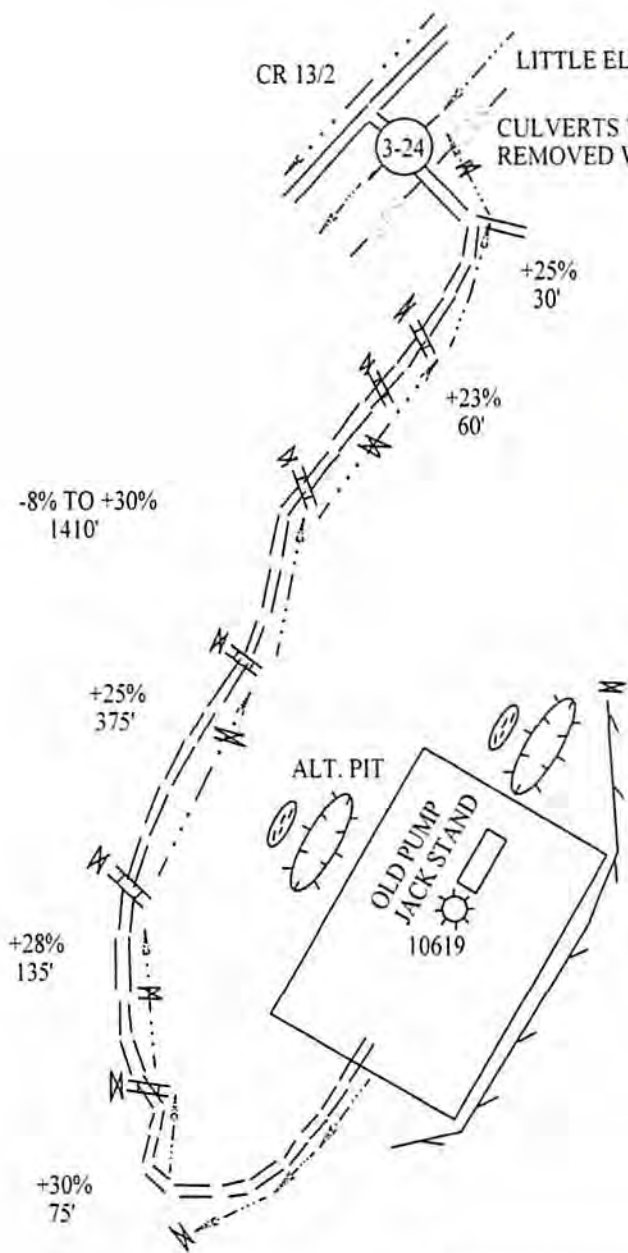
Plan Approved by: Duane O'Han  
 Comments: \_\_\_\_\_

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Title: Inspector Date: 8/2/14  
 Field Reviewed? ( ) Yes ( X ) No

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CULVERTS WILL BE INSTALLED AND THEN REMOVED WHEN WORK IS COMPLETED.

B.O.N.  
8-12-14

THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY. ALL GRADES OVER 20% ARE NOTED.

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

DRAWINGS TO ACCOMPANY FORM WW-9	
CNX GAS COMPANY LLC	
P. O. BOX 1248	
JANE LEW, WV 26378	
RECEIVED	
Office of Oil and Gas	
LITTLE ELLIS CREEK	
WATERSHED:	
DISTRICT:	GLENVILLE
COUNTY:	GILMER
QUADRANGLE:	GILMER
WELL NO:	10619
DATE:	08/06/14
PAGE	of



*B.O.H.  
8-12-14*

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

DRAWINGS TO ACCOMPANY FORM WW-9	
CNX GAS COMPANY LLC	
P. O. BOX 1248	
JANE LEWIS 26378	
Office of Oil and Gas	
WATERSHED:	LITTLE ELLIS CREEK
AUG 26 2014	
DISTRICT:	GLENVILLE COUNTY: GILMER
WV Department of Environmental Protection	
QUADRANGLE:	10619
DATE:	08/06/14 PAGE ___ of ___

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2101561P

WW-7  
5-02



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

API: 47-021-01561 WELL NO.: 10619

FARM NAME: HEZEKIAH MINIGH

RESPONSIBLE PARTY NAME: CNX GAS COMPANY LLC

COUNTY: GILMER DISTRICT: GLENVILLE 3

QUADRANGLE: GILMER 7.5 MIN. 365

SURFACE OWNER: ROBERT R. JONES, ET. AL.

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,310,752.13 METERS

UTM GPS EASTING: 525,015.15 METERS GPS ELEVATION: 318.22 METERS 1044'

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 X : Post Processed Differential \_\_\_\_ Real-Time Differential X

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   
Stephen D. Losh, PS #674

Title WV Professional Surveyor #674

Date 08/06/14



CNX USE: NAD 27 WV NORTH SPC: 10619 = 164,498.00' 1,655,411.90' ELEV. = 1044.01'

10/17/2014

## LAND SURVEYING SERVICES

Stephen D. Losh, PS J. Michael Evans, PS 21 Cedar Lane Bridgeport, WV 26330  
Phone & Fax (304) 842-2018 or 842-5762 [sdlosh@frontier.com](mailto:sdlosh@frontier.com)

August 06, 2014

### DRIVING DIRECTIONS FOR 10619

From the junction of State Route 5 and County Route 13 (Sand Fork Rd.) in Sand Fork, proceed on County Route 13 for 3.10 miles. Turn right on County Route 13 (Indian Fork Rd.). Go 100 feet and turn left on County Route 13/2 (Little Ellis Rd.). Go 0.65 of a mile and turn right on the well road.

Nearest Fire Station: Sand Fork

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Carolinda Flanagan  
Permitting Analyst  
P.O. Box 1248  
Jane Lew, WV 26378  
(304) 884-2131



August 22, 2014

West Virginia Department of Environmental Protection  
Office of Oil & Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345

**RE: Well to be Plug and Abandoned: 10619**

To Whom it May Concern,

Enclosed, please find the following plugging permit for your review and consideration:

- 10619 – API #47-021-01561

Should you need any further information, please contact me at (304) 884-2057 or by email at carolindaflanagan@consolenergy.com. Thank you!

Sincerely,

  
Carolinda Flanagan

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10/17/2014