



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 21, 2014

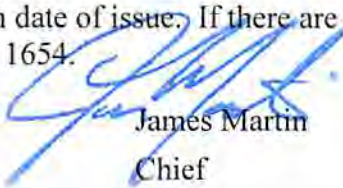
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-100700, 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: 11914
Farm Name: LANTZ, WILLIS
API Well Number: 47-100700
Permit Type: Plugging
Date Issued: 08/21/2014

Promoting a healthy environment.

08/22/2014

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 under the terms of that agreement.

1) Date: 7/9/2014
2) Operator's Well Number 11914
3) API Well No.: 47 - 001 - 00700 P

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

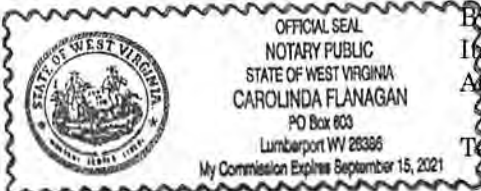
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>North Central Resources LLC</u>	Name <u>None of Declaration</u>
Address <u>200 Chapel Brook Drive</u>	Address _____
<u>Bridgeport, WV 26330</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>North Central Resources LLC</u>
_____	Address <u>200 Chapel Brook Drive</u>
_____	<u>Bridgeport, WV 26330</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Ken Greynolds</u>	(c) Coal Lessee with Declaration
Address _____	Name <u>None of Declaration</u>
_____	Address _____
Telephone <u>304-206-6613</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 <u>CNX Gas Company LLC</u>
	By: <u>Matt Imrich <i>Kelly Eddy</i></u>
	Its: <u>Designated Agent - District Operations Superintendent, WV Gas Operations</u>
	Address <u>P.O. Box 1248</u>
	<u>Jane Lew, WV 26378</u>
Telephone <u>304-884-2131 - Kelly Eddy, Permitting Supervisor</u>	

Subscribed and sworn before me this 9th day of July, 2014
Carolinda Flanagan Notary Public
My Commission Expires 9/15/2021

RECEIVED
Office of Oil and Gas
JUL 11 2014

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.

08/22/2014

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
Glennville, WV 26351

RECEIVED
Office of Oil and Gas

JUL 11 2014

WV Department of
Environmental Protection

08/22/2014

SURFACE OWNER WAIVER

Operator's Well
Number

11914

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY ACCEPTED REPRESENTATION,
RECEIVED
Office of Oil and Gas

_____	Date _____	Name _____
Signature		By _____
		Its _____
		Date _____

Signature

WV Department of
Environmental Protection

08/22/2014

1) Date 7/9, 20 14
2) Operator's
Well No. 11914
3) API Well No. 47-001 - 00700 P

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

1-700P

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 1,533.14' Watershed Dick Drain
District Union County Barbour Quadrangle Century

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 Ken Greynolds Name See Attached
Address _____ Address _____

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.

RECEIVED
Office of Oil and Gas

Work order approved by inspector *Ken Greynolds* Date 6-24-14 2014

WV Department of
Environmental Protection
08/22/2014

1-700P

Plugging Work Order for Permit 47-001-00700

Well Number 11914

1. Load hole with water to control well
2. Verify TD of 5.5" casing. Bottom perf 4678'
3. Pump cement plug 4100'-TD
4. Displaced with gel
5. Free point and cut 5.5" Casing above frac point (est. 3650')
6. Pull one joint
7. Pump cement plug 3550' - 3650'
8. Displace with gel
9. Pull casing to 2380'
10. Pump cement plug 2250'-2380'
11. Displace with Gel
12. Pull casing to 1580'
13. Pump cement plug 1486'-1586' – elevation plug
14. Displace with gel
15. Pull all 5.5" casing
16. Free point and cut 8.625" casing above free point (est. 800')
17. Pull all 8.625" casing
18. T.I.H. to top of cut 8.625" casing with 2.375" tubing
19. Pump cement plug 560-800
20. Displace with gel
21. Pull tubing to 120'
22. Pump cement plug 0-120'
23. Install 7"x4' monument (Note: All gel spacers 6% Class A Cement)

KLG
6-9-14

RECEIVED
RECEIVED
Office of Oil and Gas
Office of Oil and Gas
JUL 11 2014
JUL 11 2014
WV Department of
WV Department of
Environmental Protection
Environmental Protection
08/22/2014

WN 11914

47-001-0700

ELEVATION 1536'

COAL

19'
282'
1185'



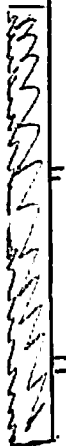
WATER

28'

GANTZ 2210'

PERKS 4327-4465

PERKS 4658-4678



16"
20

11.75 42#

610'

T.O.C 800' FROM CARD
-CALC. CTS

8.625" 24#

2321

.0374

EST. T.O.C. 3650'

5.50"

15.5

Office of Oil and Gas
0309 BBL/FT

JUL 11 2014

4765

RECEIVED
WV Department of
Environmental Protection

08/22/2014

DIVISION **JTL**

WORKING DISTRICT **Weston**

WELL No. **11914**

NAME **Willis Lantz**

LEASE No. **70833** ACRES **2.09** MAP No. **56-A**

N E 21
S 25 W

District Union	Formation	Top	Bottom	Gas	Oil	Water	CASING RECORD							PULLED
Township							Date	Size	Wt.	Grade	Amount	Set	Cemented With	Date
County Barbour	Coal	19	20											
State W.Va. Pool	Coal	282	285				2-19-75	16"			20		To Surface	
Located W.O. 3241-02848							2-24-75	8"			2241		To Surface	
Elev. Grnd. 1536' D.F. 1547'							2-28-75	5 1/2"	15.5	K-55	4765		4 1/2 bags	
Top Ch.														
Contractor SW Jack Drilling Co.														
Coal Owners Permit No. BAR-760														
Bethlehem Steel Corp 47-001														

GAMMA RAY LOG

LITTLE LIMB	1255	1465
Big Limb	1290	1915
3rd limb	1515	2140
5th limb	2140	2745
1st floor	2745	3480
Riley	4444	4600
Benson	4144	4700

SNOB & PACKER DATA

PERFORATING DATA

Date	Size	Type	Set	Pulled	Depth	Notes	St
2-19-75	11"	Guide Slip	616		14322-4468	2C	24
2-24-75	7"	Guide Slip	2321		4654-4683	2C	5
2-28-75	5 1/2"	Lead Guide Slip	4766				

Agreement Dated	
Area Purchased	
Drig. Commenced 2-17-75	
Drig. Completed 2-28-75	
Well Completed 3-18-75	
Turned In Line 2-10-76	
Line No. 14-21122	
Purchased From	
Date	O.S. No.
Sold To	
Date	O.S. No.
Disconnected	
Date Plugged	

LOGGING DATA

INITIAL DAILY OIL PRO.

Date	Type	Interval	Co.	Date	Bbs.	Format
2-18-75	Induction	2321-4827	Schlumberger			
"	Formation ?					
"	Density	0-4827	"			
3-10-75	GR-PDC	4100-4737	Birdwell			
2-28-75	Trb.	2320-4824	Birdwell			
"	GR-Dew	2580-4830	"			
"	D.B.G.	2589-4839	"			

Classified:
Prod Gas Well
Gas Measured By: **meter**

Total Depth **4825**
Plugged Back To

VOLUME AND PRESSURE

Date	Reading	Liquid	SIZE			MINUTE RISE											Hrs.	Days	VOLUME	SAND
			Opening	CSG	TBC	1	2	3	4	5	15	30	60							
3-18-75	2 1/2"	M	2" OF			3	10	15	20	25	70	140	230	18	14	1546	823.000	Riley & Benson		

RECEIVED
Office of Oil and Gas
WV Department of Environmental Protection
JUL 11 2014

REPAIR AND DRILLING DEEPER

REMARKS

Commenced	Completed	O. To	D.D. To	Volume		Rock Pressure		
				Before	After	Before	24 Hr. After	10 D. After

TREATMENT DATA (Shot, Fracture, Acidize, Etc.)

Date	Type	SD Pres.	Sand	O.F. Before	O.F. After	R.P. Before	R.P. After
3-10-75	Water		Riley & Benson	12 M	22.3 M	1.7	15.42 "

*Tally Measurement

CASING RECORD

SIZE	CHARGED TO WELL *		PUT IN WELL *		PULLED OUT *		LEFT IN WELL *		TRANSFERRED BEFORE COMPLETING *		LEFT AT WELL NOT IN USE *		Wt.	Grade	Steel Line Meas.
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.			
O. D.															
16"	20	0	20		None		20		20		160 c				20'
11 3/4"	616		616		None		616				16 1/2 c				610'
8 5/8"			2390		None		2390				None				2321'
5 1/2"	4790	83	4790	83	None		4790	83	-	-	129 21	15.5	K-55		4762.97

SHOE AND PACKER RECORD

SIZE	KIND	SET AT (Steel Line)	AMOUNT ANCHOR	Amount of Cement or Aqualog Used	CEM. OR GELL		REMARKS
					Top	Bottom	
16"	None	20	None	10 Bgs.		Surf	
11 3/4"	Guide shoe	610'	None	275 Bgs.		Surf	
8 5/8"	Guide shoe	2321	None	420	800	2321	
5 1/2"	Float Guide shoe	4766	None	160 Bgs.	7750	4766	

5 1/2" Tatch Down Plug at 4721
 3 1/2" Baffle at 4510.51 SL

CASING AND COAL CEMENTING RECORD

Date Cemented 2-19-75 Size Hole Cemented 15" Size Casing Cemented 11 3/4"
 Top Coal 19 - 202 Top Cementing Surf Amount Cement Used 275 Bgs.
 Bottom Coal 21 - 285 Bottom Cementing 630 Cemented By J. B. Ratches
 Mr. _____ of Dept. of Mines on ground when coal was cemented
 Mr. _____ of _____ Coal Company on ground when coal was cemented

Date Cemented 2-24-75 Size Hole Cemented 10 5/8" Size Casing Cemented 8 5/8"
 Top Coal 1185 Top Cementing 800 Amount Cement Used 420 Bgs.
 Bottom Coal 1209 Bottom Cementing 2321' Cemented By R. L. Walker
 Mr. Paul R. Thomas of Dept. of Mines on ground when coal was cemented
 Mr. _____ of _____ Coal Company on ground when coal was cemented

Remarks: _____ Signature of persons who cemented well: _____

RECEIVED
 Office of Oil and Gas
 WV Department of
 Environmental Protection
 JUL 11 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 Simpson Creek Quadrangle Philippi

Elevation 1533.14' County Barbour District Union

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

Will a synthetic liner be used in the pit? Yes - 20 ml

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 Disposal: Meadowfill, Northwestern Landfill, Max Environmental Yukon Landfill and Bulger Landfill)

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 Kelley Eddy

Company Official (Typed Name) Matt Imrich

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

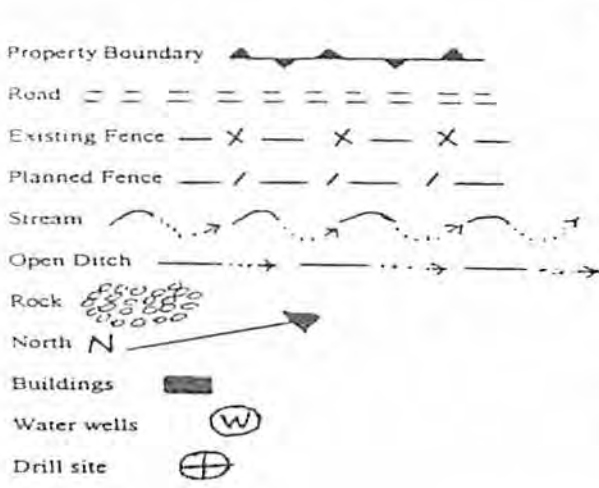
Subscribed and sworn before me this 9th day of July, 2014

Carolinda Flanagan

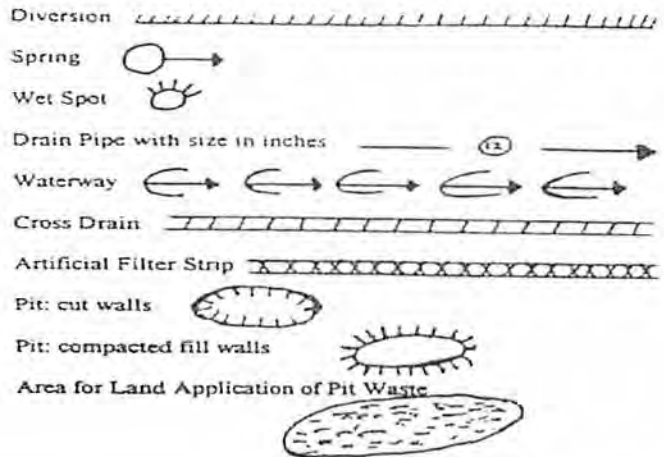
My commission expires 9/15/2021



09/22/2014



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.50 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: [Signature]
 Comments: RECLAIM ASAP

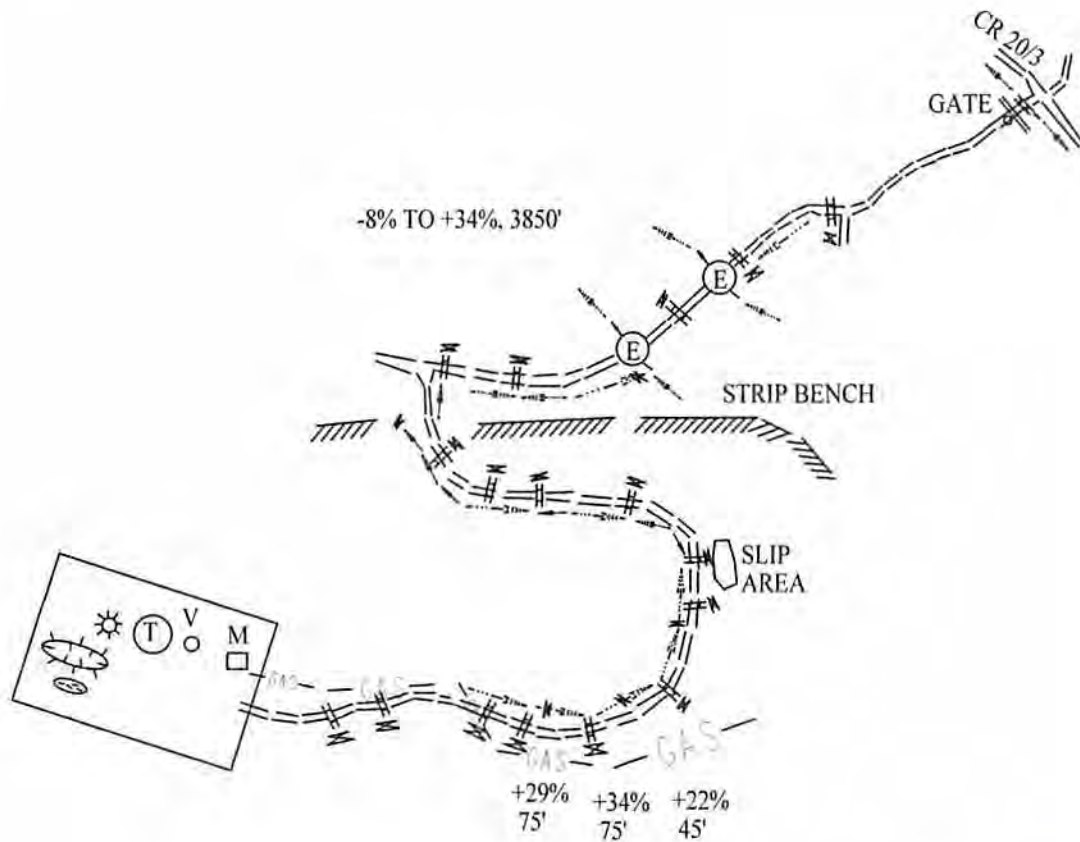
Title: OIL & GAS INSPECTOR Date: 6-9-14

Field Reviewed? () Yes () No

RECEIVED
 Office of Oil and Gas

JUL 11 2014

WV Department of
 Environmental Protection
 08/22/2014



RLC
6-9-14

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

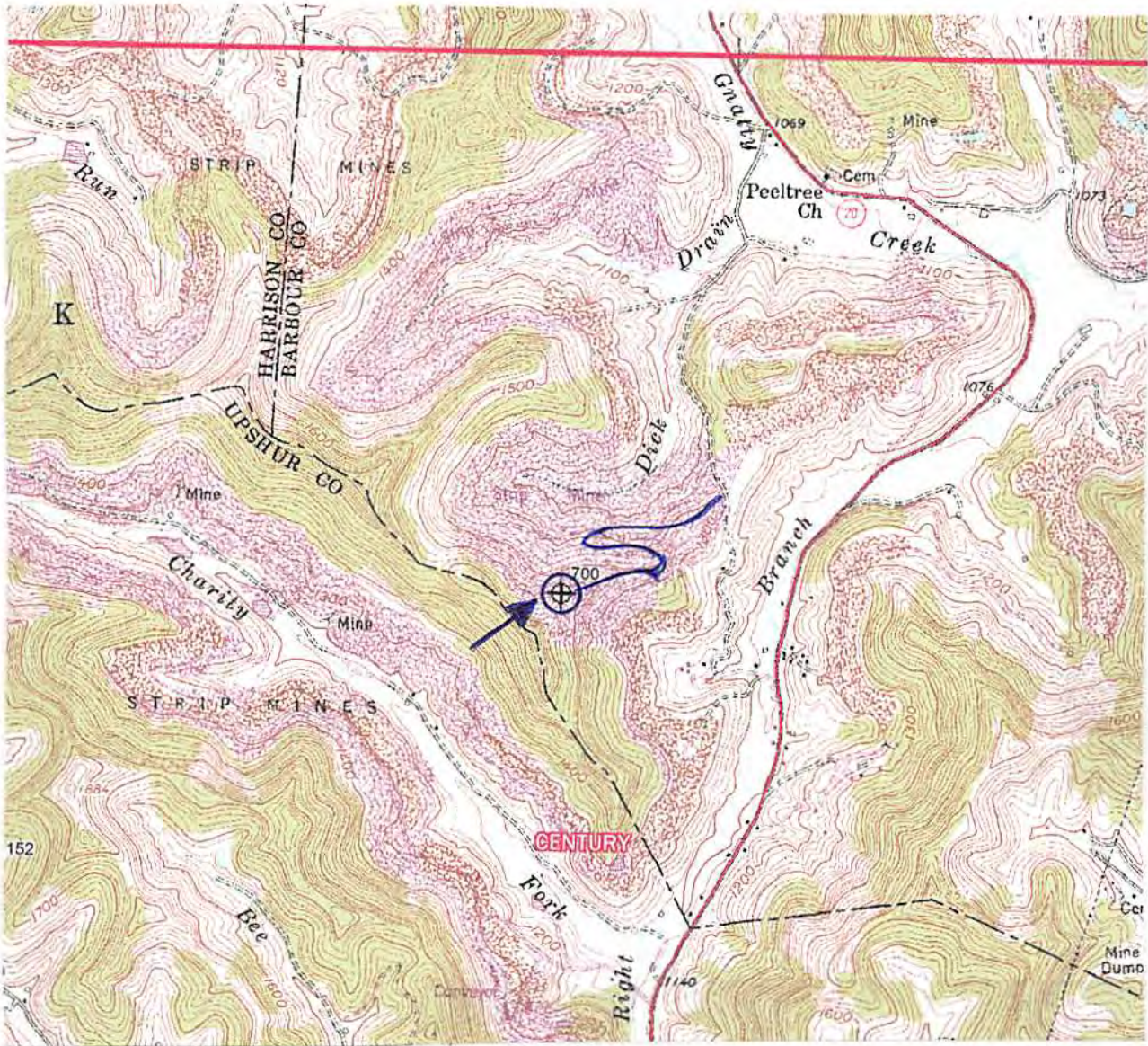
ALL GRADES OVER 20% ARE NOTED.

AN ALTERNATE PIT WILL BE CONSTRUCTED AT A CONVENIENT LOCATION IF NEEDED.

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	
WATERSHED:	DICK DRAIN
DISTRICT:	UNION
COUNTY:	BARBOUR
QUADRANGLE:	CENTURY
WELL NO.:	11914
DATE:	05/15/13

RECEIVED
Office of Oil and Gas
JUL 11 2014
WV Department of
Environmental Protection



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: DICK DRAIN

DISTRICT: UNION COUNTY: BARBOUR

QUADRANGLE: CENTURY WELL NO.: 11914

DATE: 05/15/13 PAGE of

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

08/22/2014



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

API: 47-001-00700 WELL NO.: 11914
FARM NAME: WILLIS LANTZ
RESPONSIBLE PARTY NAME: CNX GAS COMPANY LLC
COUNTY: BARBOUR DISTRICT: UNION 7
QUADRANGLE: CENTURY 7.5 MIN. 287
SURFACE OWNER: NORTH CENTRAL RESOURCES LLC 200 CHAPEL BROOK DR. BRIDGEPORT, WV 26330
ROYALTY OWNER: WILLIAM O. LANTZ
UTM GPS NORTHING: 4,329,053.61 METERS
UTM GPS EASTING: 567,867.38 METERS GPS ELEVATION: 467.30 METERS

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 
Stephen D. Losh, PS #674

Title WV Professional Surveyor #674 RECEIVED

Date 05/15/13

