



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 22, 2014

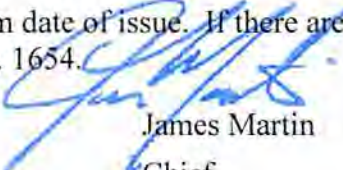
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-100578, 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: 11473
Farm Name: POLING, JAMES G.
API Well Number: 47-100578
Permit Type: Plugging
Date Issued: 08/22/2014

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 11473

3) API Well No.: 47 - 001 - 00578 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>Alan R. Messier & Joseph J. Garvey</u> ✓	Name <u>Arch Coal, Inc</u>
Address <u>93 Maple Grove Avenue</u>	Address <u>2708 Cranberry Square</u> ✓
<u>Morgantown, WV 26501</u> ✓	<u>Morgantown, WV 26508</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Arch Coal, Inc</u>
(c) Name _____	Address <u>2708 Cranberry Square</u> ✓
Address _____	<u>Morgantown, WV 26508</u>
6) Inspector <u>Ken Greynolds</u>	(c) Coal Lessee with Declaration
Address _____	Name <u>None of Declaration</u>
Telephone <u>304-206-6613</u>	Address _____

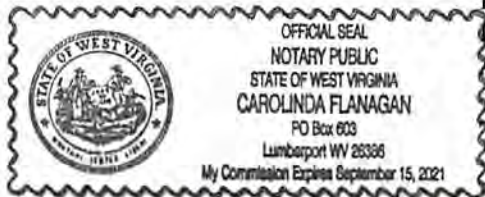
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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
 Title: Designated Agent - District Operations Superintendent, WV Gas Operations
 Address P.O. Box 1248
Jane Lew, WV 26378
 Telephone 304-884-2131 - Kelly Eddy, Permitting Supervisor



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

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.

RECEIVED
Office of Oil and Gas

JUL 11 2014

08/22/2014

SURFACE OWNER WAIVER

1-578P

Operator's Well
Number

11473

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.

 _____ Date 1/22/14 Name _____
 Signature By _____
 Its _____

FOR EXECUTION BY A CORPORATION.
 Office of Oil and Gas
 JUL 11 2014

 Date

 Signature
 WV Department of
 Environmental Protection

08/22/2014

1) Date 7/9, 20 14
2) Operator's Well No. 11473
3) API Well No. 47-001 - 00578 **P**

1-578P

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 1,576.26 Watershed Simpson Creek
District Pleasant County Barbour Quadrangle Philippi

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

JUL 11 2014

Work order approved by inspector [Signature]

Date 6-9-14
WV Department of
Environmental Protection

08/22/2014

Plugging Work Order for Permit 47-001-00578 P

Well Number 11473

1. Load hole
2. Verify TD
3. Pump cement plug 4400'-TD – displaced with gel
4. Free point and cut 4.5 Casing (est. 3600')
5. Pull one joint
6. Pump cement plug 3500' - 3600'
7. Displace with gel
8. Pull casing to 1620'
9. Pump cement plug 1526'-1626' – Elevation Plug
10. Displace with Gel
11. Pull casing to 960'
12. Pump cement plug 860'-960'
13. Displace with gel
14. Pull casing to 120'
15. Pump cement plug 0 – 120'
16. Install Monument (Note: All gel spacers 6% Class A Cement)

KLC
6-9-14

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

WN 11473

1-578P

Permit 47-01-0578

ELEV. 1576

COAL 132
169
862

WATER 50
785



16' 18"

11.75"

200'

8.625"

916'

7.875" HOLE

T.O.C. 3600'

4.5"

PERFS. 4596-4604

4656

1-578P

*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.															
18"	16		16				16	-							16
11 3/4"	247		203				203	-	41				42	H-40	200
8 5/8"	922	2	922	2											916
4 1/2"	4824	28	4671				4671	-				1447	47	105	K-55 4656

SHOE AND PACKER RECORD

SIZE	KIND	SET AT (Steel Line)	AMOUNT ANCHOR	Amount of Cement or Aquagel Used	CEM. OR GELL		REMARKS
					Top	Bottom	
18		16		125HS'	0	16	2071 C.C.
11 3/4		200		115 Sur P02	0	200	3071 C.C.
8 5/8		916		225 Sur P02	0	916	3071 C.C.
4 1/2	Hall. Comb. Float	4666	KB	200 Com		4666	3:00PM 5-222

CASING AND COAL CEMENTING RECORD

Date Cemented _____ Size Hole Cemented _____ Size Casing Cemented _____
 Top Coal _____ Top Cementing _____ Amount Cement Used _____
 Bottom Coal _____ Bottom Cementing _____ Cemented By _____
 Mr. _____ of Dept. of Mines on ground when coal was cemented
 Mr. _____ of _____ Coal Company on ground when coal was cemented

Date Cemented _____ Size Hole Cemented _____ Size Casing Cemented _____
 Top Coal _____ Top Cementing _____ Amount Cement Used _____
 Bottom Coal _____ Bottom Cementing _____ Cemented By _____
 Mr. _____ 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

JUL 11 2014

WV Department of
 Environmental Protection

08/22/2014

DIVISION **IV** WORKING DISTRICT **BRIDGEPORT**

WELL No. **11473** NAME **BEATRICE POLING** LEASE No. **68368** ACRES **100** MAP No. **43-A** N **28** S **19** W

District Pleasant (west)	Formation	Top	Bottom	Gas	Oil	Water	CASING RECORD						PULLED	
Township							Date	Size	Wt.	Grade	Amount	Set	Cemented With	Date
County Barbour	Coal	169	180											
State W. Va.	Coal	362	366				4-72	18"			16'	16'	12 sks. to surf.	
Located 3-13-72							4-72	11 3/4"	42	H-40	203'	200'	115 sks. to surf.	
Elev. 1576'							4-72	8 3/4"			922'	916'	225 sks. to surf.	
Top Ctr.							5-72	4 1/2"	10.5	K-55	4677'	4656'	200 sks.	
Contractor S.W. Jack Drilling Co.														
Coal Owners Mountaineer Coal Co. 47-001														
Consolidated Coal Corp. Fairmont, W. Va.														

GAMMA RAY LOG														
Agreement Dated	Maxton	1555	1599											
Area Purchased	Little Lime	1707	1727											
Drig. Commenced	Big Lime	1752	1853											
Drig. Completed	Big Lajun	1853	1954											
Well Completed	Gratz	2122	2143											
Turned in Line	50 Feet	2177	2221											
Line No. H-19447 to TL-373	5th Sand	2275	2251											
Purchased From	Benson	4593	4606	4594-4605 (58-67M)										

SHOE & PACKER DATA										PERFORATING DATA			
Date	Size	Type	Set	Pulled	Depth	Holes							
5-72	4 1/2"	Float Shoe	4650		4596-4604	24	0						

LOGGING DATA										INITIAL DAILY OIL PROD.			
Date	Type	Interval	Co.	Date	Bbl.	Format							
5-3-72	IND	1800-TD	Schlumb.										
	FD-GR	FH	"										

CLASSIFIED: Production Gas Well													
Total Depth 4711													
Gas Measured By: Metered													

VOLUME AND PRESSURE																			
Date	Reading	Liquid	SIZE			MINUTE RISE										Hrs.	Days	VOLUME	SAND
			Opening	CSC	TBC	1	2	3	4	5	10	15	30	60					
5-17-72	2 3/10	W	4" OF			40	50	60	70	80	170	300	500	12	14	1740	787,000	Benson A/E	
5-31-72																			

REPAIR AND DRILLING DEEPER										REMARKS				
Commenced	Completed	C.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	SP Press	Sand	O.F. Before	O.F. After	R.P. Before	R.P. After
5-15-72	Water	875.00	Benson	NT	787 M	NT	500 - 1 hr

Environmental Protection
 W/V Department
 Office of Oil and Gas
 RECEIVED
 JUL 11 2014

200 SKS → 7 7/8" Hole →

1-578P

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 1576.26' County Barbour District Pleasant

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 Kelly Eddy

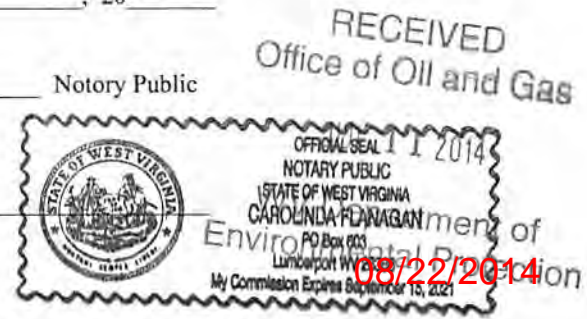
Company Official (Typed Name) Matt Imrich

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

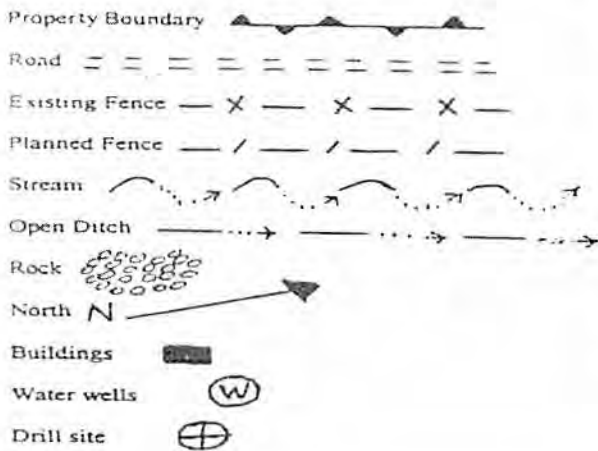
Subscribed and sworn before me this 9th day of July, 20 14

Caroline Pennington
Notary Public

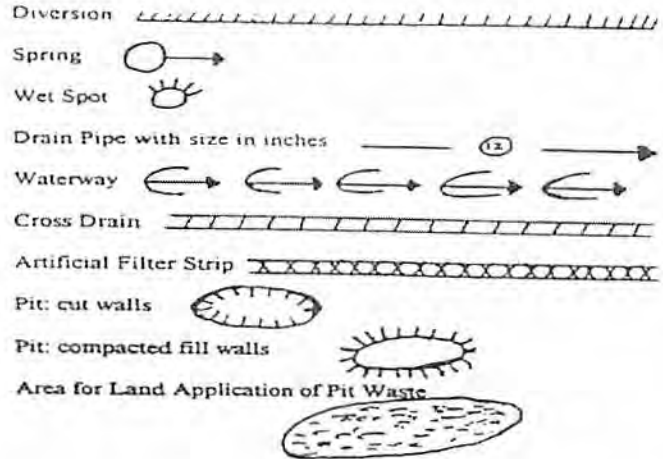
My commission expires 9/15/2021



1-578P



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.25 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

Area I		Area II	
Seed Type	lbs/acre	Seed Type	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: RECOMMEND 1500

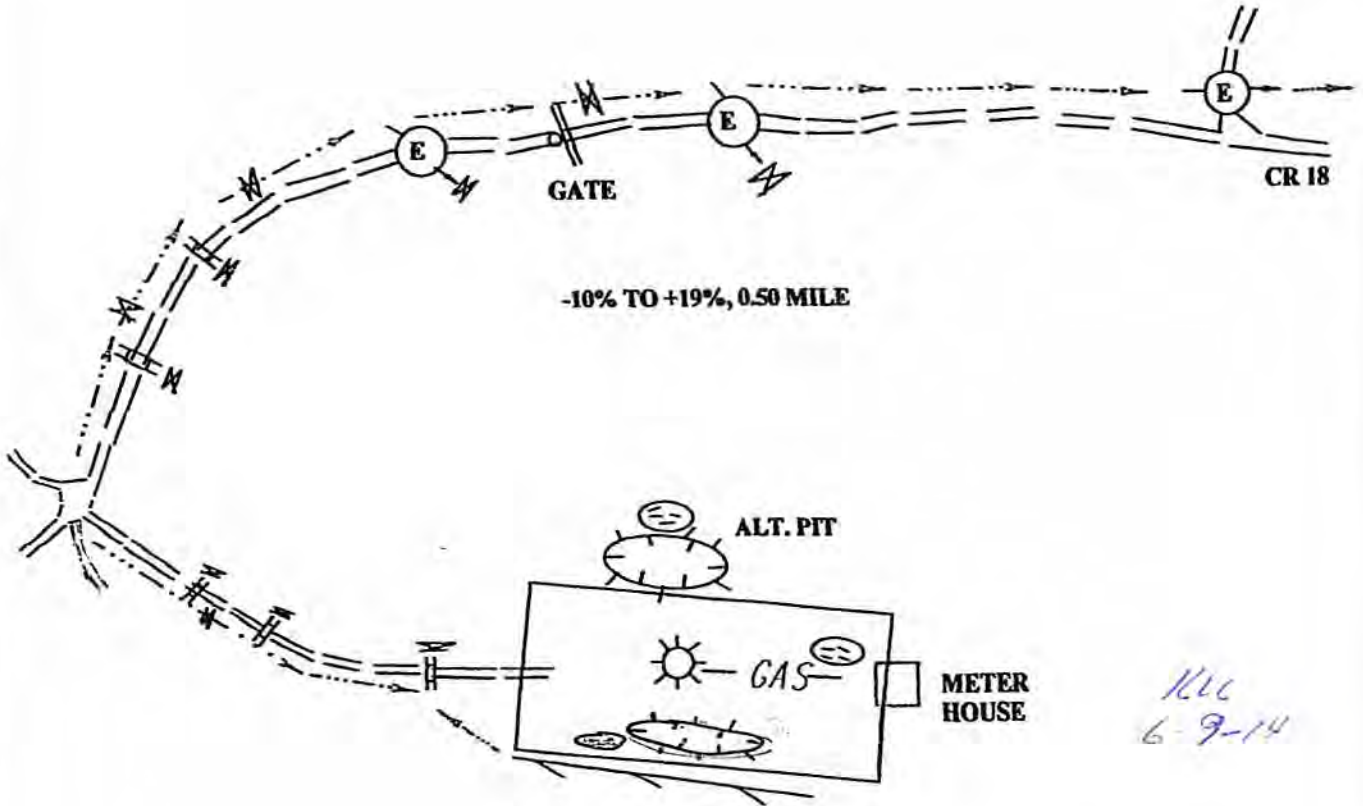
Title: OIL & GAS INSPECTOR Date: 6-9-14

Field Reviewed? () Yes () No

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

NORTH

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.



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: SIMPSON CREEK

DISTRICT: PLEASANT COUNTY: BARBOUR

QUADRANGLE: PHILIPPI WELL NO.: 11473

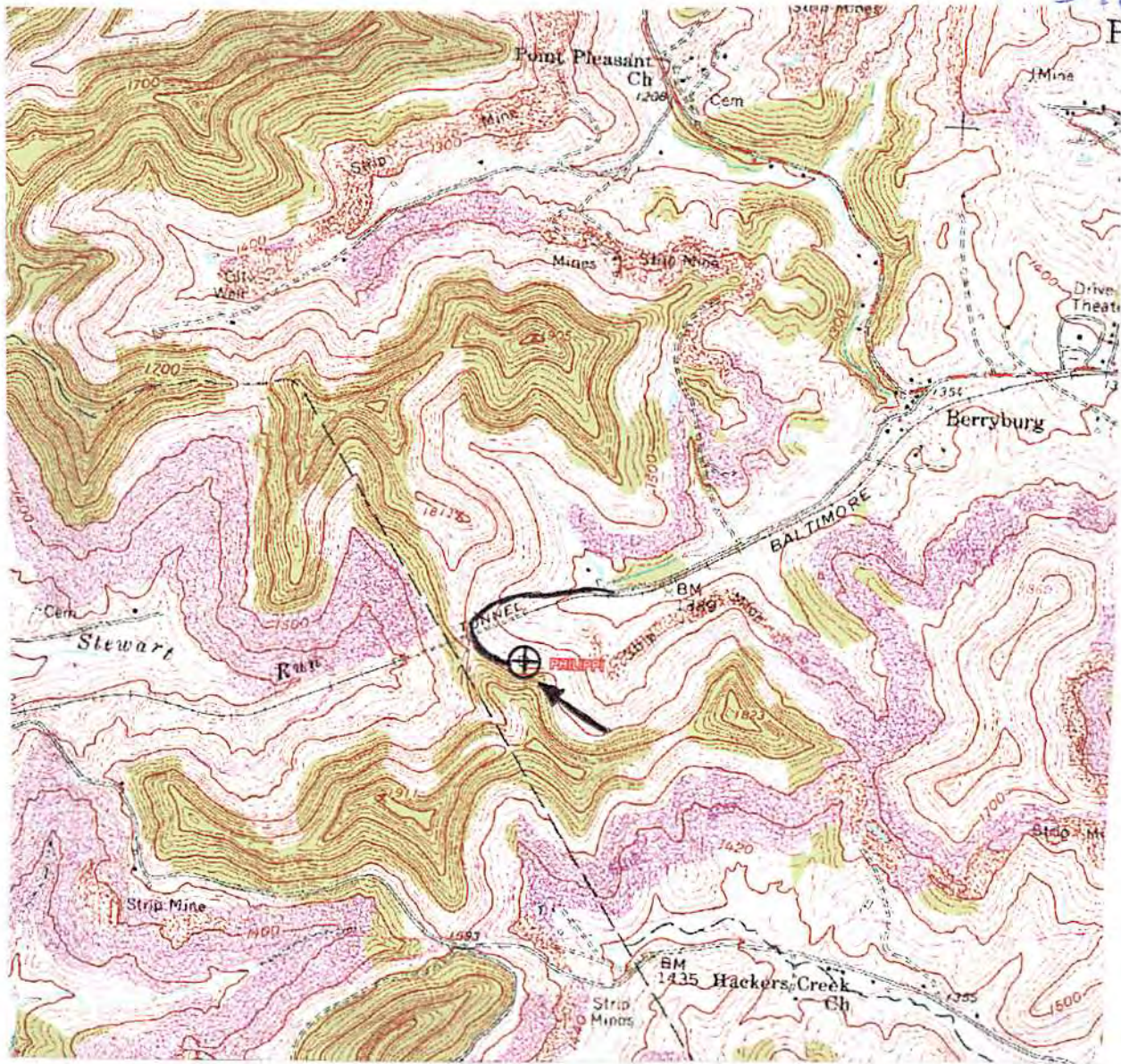
DATE: 05/13/13

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

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

08/22/2014

1-5788



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: RECEIVED SIMPSON CREEK
Office of Oil and Gas

DISTRICT: PLEASANT COUNTY: 11 BARBOUR

QUADRANGLE: PHILIPPI WV WELL NO.: 11473
Department of

DATE: 05/13/13 Environmental Protection 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: 47-001-00578 WELL NO.: 11473

FARM NAME: BEATRICE POLING

RESPONSIBLE PARTY NAME: CNX GAS COMPANY LLC

COUNTY: BARBOUR DISTRICT: PLEASANT 6

QUADRANGLE: PHILIPPI 7.5 MIN. 545

SURFACE OWNER: ALAN R. MESSIER 93 MAPLE GROVE AVE. MORGANTOWN, WV 26501

ROYALTY OWNER: JAMES G. POLING

UTM GPS NORTHING: 4,338,343.12 METERS

UTM GPS EASTING: 577,694.47 METERS GPS ELEVATION: 480.44 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

Date 05/13/13

