

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, October 4, 2019
WELL WORK PLUGGING PERMIT
Coal Bed Methane Well Plugging

CNX GAS COMPANY LLC 1000 CONSOL ENERGY DR

CANONSBURG, PA 15370

Re:

Permit approval for L-33 47-049-01394-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: L-33

Farm Name: CARPER, JAMES P

U.S. WELL NUMBER: 47-049-01394-00-00

Coal Bed Methane Well Plugging

Date Issued: 10/4/2019

Promoting a healthy environment.

### **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. <u>Failure to adhere to the specified permit conditions may result in enforcement action</u>.

### **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.

WW-4B Rev. 2/01

1)Date	, 20_19
2) Operator's	
Well No. L-33	
3) API Well No.	47 - 049 - 01394

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid	d injection/ Waste disposal/
	(If "Gas, Production $X$ or Unc	derground storage) Deep/ Shallow $X$
5)	Location: Elevation 4368 1540'	Watershed Flat Run
	District Mannington	County Marion Quadrangle Mannington
6)	Well Operator CNX Gas Company, LLC	7) Designated Agent Christopher Turner
	Address 1000 Consol Energy Drive	Address P.O. Box 1248
	Canonsburg, PA 15317	Jane Lew, WV 26378
8)	Oil and Gas Inspector to be notified Name Sam Ward	9) Plugging Contractor  Name Contractors Services Incorporated of WV
	Address P.O. Box 2327	Address 929 Charleston Road
	Buckhannon WV 26201	Spencer, WV 25276
		Office of Oil and Ga
Not:	ification must be given to the district of	WV Department of Environmental Protection and gas inspector 24 hours before permitted
	k can commence.	

47-049-0139AP

Well: L-33 (Carper)

API#: 47-049-01394

**District:** Mannington

**County:** Marion

Elevation: 1368' 1540'

### L-33 Proposed Plugging and Abandonment Procedure

- 1. Run in and tag TD (~1110') and determine if slotted liner is present
- 2. If no pressure on well fill slotted liner w/ Pea Gravel (1 ton= ~20 Cu. Ft. fill). If pressure on well a plug will need to be set at top of slotted liner.
- 3. If using Pea Gravel run in and verify top of gravel is at top of slotted liner
- 4. Run in well and shoot off and remove any uncemented casing
- 5. Run in well w/ work string and cement from Pea Gravel/Plug to surface
- 6. TOOH w/ work string and top off well with cement
- 7. Install 6"x14' monument (10' below grade, 4' above grade). Monument must contain API#, Well Name, Company Name and Date Plugged

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

SEE ATTACHED \$4 \$ \$5

50W 8/13/19 Well: CARPER L33

District: MANNINGTO N

Elevation: 1540

APINO .: 47-049-01394 P

County: MARION

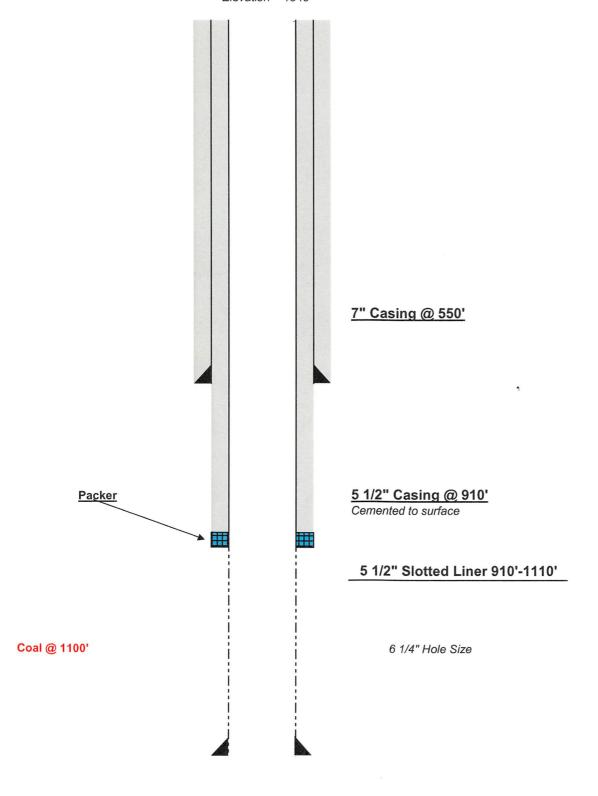
Loveridge Mine

\*4. This well should not have any uncemented casing, with the exception of the slotted portion of the 5 ½" casing. Do not remove.

\*5. Once the slotted casing is filled with pea gravel, which will mitigate cement slurry loss to the open Pittsburgh Coal Seam, then lightly pump enough Class A cement to form a 30' to 50' Cement Plug. WOC for 5 hours. Tag cement plug and add Class A cement until a 100' Class A cement plug has been established. WOC a minimum of 5 hours and then fill the rest of the wellbore to the surface with Class A cement.

### Carper L-33

Mannington District, Marion WV Original Completion: 8/1980 API #47-049-01394 Elevation = 1540'



WR-35 Rev (9-11)

# State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	October 4, 2019
API#:	47-049-01394

Well Operator	's Report of W	ell Work		
Farm name: Carper, James P.	Operator Well	No.: L-33		
LOCATION: Elevation: 1540'	Quadrangle: _	Mannington		
District: Mannington	County: Mario	n		
Latitude: 5033.33 Feet South of 39 Deg.	37Min	. <u>30</u> Se		
Longitude 3916.66 Feet West of 80 Deg.	20 Min	. <u>00</u> Se	c.	
Company: CNX Gas Company LLC	Ia · ·	T + 1 ·	Tr. 0:11	T. C
Address: 1000 Consol Energy Drive	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Canonsburg, PA 15317	7"	550'	550'	To Surface
Agent: Anthony Kendziora	5"	910'	910'	To Surface
Inspector: Sam Ward	5" Slotted	200'	200'	
Date Permit Issued: 12/02/2002				
Date Well Work Commenced: Existing Borehole	Packer		910'	
Date Well Work Completed: Converted to well				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 1110				
Total Measured Depth (ft): 1110				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 1100				
Void(s) encountered (N/Y) Depth(s)				
OPEN FLOW DATA (If more than two producing formation Producing formation Pittsburgh Coal Seam Pay 2 Gas: Initial open flow 114 MCF/d Oil: Initial open flow Time of open flow between initial and final tests 0 Static rock Pressure 1 psig (surface pressure) af	zone depth (ft) 1 low 0 Bl  v 0 Bb  Hours	ol/d l/d	lata on separate s	heet)
Static fock Pressurepsig (surface pressure) at	110u	.5		
Second producing formation None Pay zon	- ' /			RECEIVED Office of Oil and Gas
Gas: Initial open flowMCF/d Oil: Initial open flowMCF/d Final open flowMCF/d Final open flow				
Time of open flow between initial and final tests	Hours			OCT - 4 2019
Static rock Pressurepsig (surface pressure) af	terHour	rs		WV Department of Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

Patrick Taylor	10/02/2019
Signature	Date

Were core samples taken? Yes	No	Were cutti	ings caught during drilling	? Yes No
Were Electrical, Mechanical or C	Geophysical logs record	ed on this well? If yes	s, please list	
NOTE: IN THE AREA BI FRACTURING OR STIMUL DETAILED GEOLOGICAL COAL ENCOUNTERED BY	ATING, PHYSICAL ( RECORD OF THE	CHANGE, ETC. 2). TOPS AND BOTT	THE WELL LOG WHIC OMS OF ALL FORM	CH IS A SYSTEMATIC
Perforated Intervals, Fracturing,	or Stimulating:			
Plug Back Details Including Plug	g Type and Depth(s):			
Formations Encountered: Surface:		Top Depth		Bottom Depth
Supplemental information r	equested per WV I	DEP not at time of	f well completion	
		<u>-</u>		
				RECEIVED Office of Oil and Gas
				OCT - 4 2019
				WV Department of Environmental Protectio

WW-4A Revised 6-07

<ol> <li>Date:</li> <li>Operator's Well Number</li> </ol>	r			_
L-33				 
3) API Well No · 47 -	049	_	01394	

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

•	Surface Owr a) Name	ner(s) to be served: RICHARD C & KELLY J WHEAT	5) (a) Coal Operator Name
	Address	4847 GCP RD	Address
		VALLEY GROVE, WV 26060	
(	b) Name		(b) Coal Owner(s) with Declaration
1	Address		Name RICHARD C & KELLY J WHEAT
			Address 4847 GCP RD
			VALLEY GROVE, WV 26060
(	c) Name		Name
1	Address		Address
6) Ir	spector	Sam Ward	(c) Coal Lessee with Declaration
	ddress	P.O. Box 2327	Name
		Buckhannon WV 26201	Address
Τ	'elephone	304-389-7583	
ΓO	THE PE	RSONS NAMED ABOVE	You should have received this Form and the following documents:
			Total Should have received this rorm that the tono many documents.
	(1) The a	pplication to Plug and Abandon a We	l on Form WW-4B, which sets out the parties involved in the work and describes th
	11 .	ts and the plugging work order; and	
			coation on Form WW 6
		lat (surveyor's map) showing the well	ocation on Form www-6.
	(2) The p		ive rights regarding the application which are summarized in the instructions on the reverses sid

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.

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL

Douglas E. Smith, Notary Public

Cecil Twp., Washington County

My Commission Expires Dec. 6, 2020

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Well Operator
By: Erika Whetstone Entra Charles
Its: Permitting Manager
Address 1000 Consol Energy Drive
Canonsburg, PA 15317

Telephone 724-485-4035 Office of Oil and Gas

Subscribed and sworn before me this 21 day of August

Notary Public Enviro

WV Department of Environmental Protection

Oil and Gas Privacy Notice

My Commission Expires

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 <a href="deprivacyoffier@wv.gov">deprivacyoffier@wv.gov</a>.

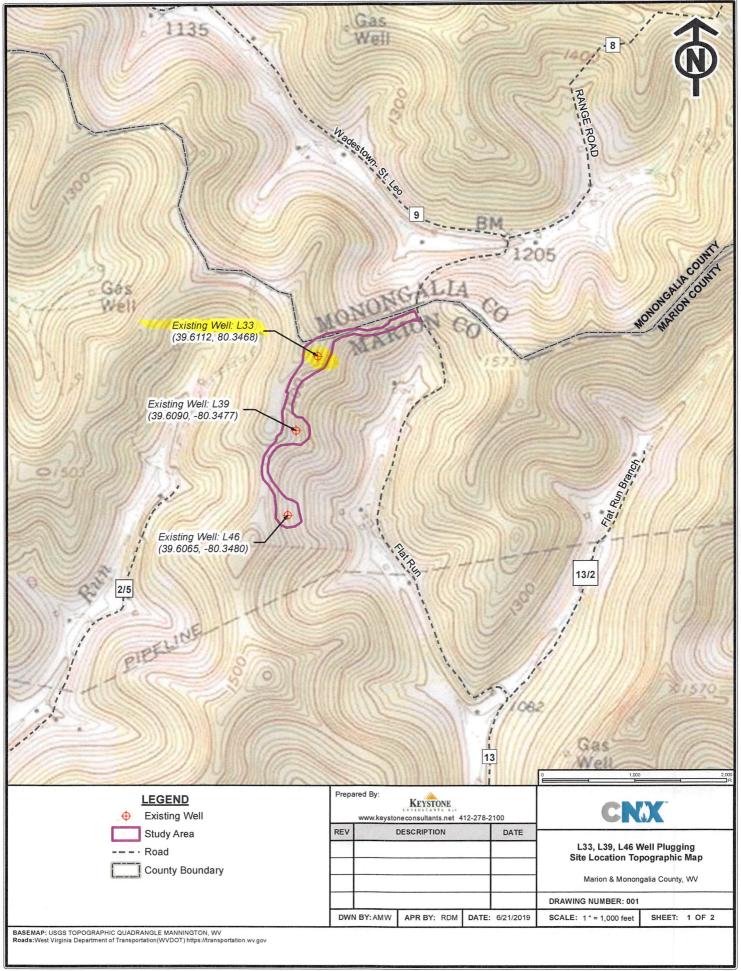
WW-9 (5/16)

API Number	47 -	049	_ 01394	
Operator's W	ell No	).		

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

FLC	IDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name CNX Gas Company, LLC	OP Code 494458046
Watershed (HUC 10)_Flat Run	Quadrangle Mannington
	0 bbls of water to complete the proposed well work? Yes No✓
If so, please describe anticipa	
Will a synthetic liner be used	in the pit? Yes No If so, what ml.?
Proposed Disposal Method Fo	
Land Applie Undergroum Reuse (at A	ation (if selected provide a completed form WW-9-GPP)  d Injection (UIC Permit Number)  PI Number)  posal (Supply form WW-9 for disposal location)  ainWaste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns.
	o, describe: no SI 13/19
Will closed loop systembe used? If so	o, describe: no 81 13/19
Drilling medium anticipated for this w	ell (vertical and horizontal)? Air, freshwater, oil based, etc. na
-If oil based, what type? Syn	hetic, petroleum, etc
Additives to be used in drilling medium	n?na
Drill cuttings disposal method? Leave	in pit, landfill, removed offsite, etcna
-If left in pit and plan to solid	ify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/perm	nit number?
	o the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any notice shall be provided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil provisions of the permit are enforceable or regulation can lead to enforcement a I certify under penalty of lar application form and all attachments the information, I believe that the information	w that I have personally examined and am familiar with the information submitted on this ereto and that, based on my inquiry of those individuals immediately responsible for obtaining primation is true, accurate, and complete. I am aware that there are significant penalties for the possibility of fine or imprisonment
Company Official Signature	Junitude Office of Oil and Gas
Company Official (Typed Name) Eril	a Whetstone AUG 2 2 2019
Company Official Title Permitting Ma	nager W Denast
	nager  WW Department of  Environmental Protection
Subscribed and sworn before me this_	AN I
Dowlas & Amitst	Notary Public Notary No
My commission expires 12-6-20	NOTARIALSEAL

		Operator's	s Well No
Proposed Revegetation Treat	ment: Acres Disturbed les	ss than 1 acre Prevegetatio	n pH
Lime 2-3	Tons/acre or to correc	t to pH	
Fertilizer type 10-2	20-20 or equivalent		
Fertilizer amount 50	00	lbs/acre	
Mulch_ hay or str	aw 2	_Tons/acre	
		Seed Mixtures	
Tr			uun on on t
	mporary		rmanent
Seed Type Tall Fescue	lbs/acre 40	Seed Type <b>Tall Fescue</b>	lbs/acre . 40
Landino Clover	5	Landino Clover	5
Editalilo Glovoi			
Plan Approved by:	Pour	ret"	
Comments:			
	and or	Date: 8 (13/19	Office of Oil and Ga
Title: CO G Z136		Date: 6 13 17	AUG 22 2019
Field Reviewed?	) Yes (_	) INO	Environ Department
			WV Department of Environmental Protection



WW-7 8-30-06



### West Virginia Department of Environmental Protection Office of Oil and Gas

### WELL LOCATION FORM: GPS

RESPONSIBLE PARTY NAME:    Erika Whetstone	API: 47-049-01394	WELL NO.: L-33
RESPONSIBLE PARTY NAME: Erika Whetstone  COUNTY: Marion DISTRICT: Mannington  QUADRANGLE: Mannington  SURFACE OWNER: RICHARD C & KELLY J WHEAT  ROYALTY OWNER:  UTM GPS NORTHING: 4384814.41  UTM GPS EASTING: 556062.60 GPS ELEVATION: 469.46 m/1540.23 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 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:  1. Datum: NAD 1983, Zone: 17 North, 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  Real-Time Differential  Real-Time Differential  Real-Time Differential  Real-Time Differential  Real-Time Differential  ACCURACY OF The Coordinate of Oil and Gas.  Office of Oil and Gas and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.	FARM NAME: Wheat	
COUNTY: Mannington  QUADRANGLE: Mannington  SURFACE OWNER: RICHARD C & KELLY J WHEAT  ROYALTY OWNER:	RESPONSIBLE PARTY NAME: Er	ika Whetstone
QUADRANGLE: Mannington  SURFACE OWNER: RICHARD C & KELLY J WHEAT  ROYALTY OWNER:  UTM GPS NORTHING: 4384814.41  UTM GPS EASTING: 556062.60  GPS ELEVATION: 469.46 m/1540.23 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 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:  1. Datum: NAD 1983, Zone: 17 North, 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  Alter 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.	COUNTY: Marion	Mannington
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belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.  WW Department of Environmental Protection		ne Differential
Permitting Manager 8 2016	I the undersigned, hereby certify this dat belief and shows all the information requ	a is correct to the best of my knowledge and are a lired by law and the regulations issued and
Signature Title Date	Julia D Williams	errintaring warrager 8 21/19