

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-46 47-049-01396-00-00

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-46

Farm Name: CARPER, JAMES P.

U.S. WELL NUMBER: 47-049-01396-00-00

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. 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.

WW-4B Rev. 2/01

1)Date		20 19
2)Operator's		
Well No. L-46		
3) API Well No.	47-049	- 01396

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

	APPLICATION FOR A PERI	III TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas $\frac{X}{}$ / Liquid (If "Gas, Production $\frac{X}{}$ or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_X
5)	Location: Elevation 4202 1368 / District Mannington	Watershed Flat Run County Marion Quadrangle Mannington
6)	Well Operator CNX Gas Company, LLC	7) Designated Agent Christopher Turner
0,	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 Address P.O. Box 2327	Name Contractors Services Incorporated of WV Address 929 Charleston Road
	Buckhannon WV 26201	Spencer, WV 25276
	Work Order: The work order for the mann	ner of plugging this well is as follows:

RECEIVED
Office of Oil and Gas

AUG 2 2 2019

WV Department 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 $\frac{8}{13}$

API#: 47-049-01396 Well: L-46 (Carper)

County: Marion District: Mannington

Elevation: 1202' 1368'

L-66 Proposed Plugging and Abandonment Procedure

1. Run in and tag TD (~940') 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 SHEET FOR \$4 & A5

RECEIVED
Office of Oil and Gas Solution of Oil and Gas

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AUG 2 2 2019

The Control of Oil and Gas

AUG 2 2 2019

Well: L-46 CARPER

District: MANINGTON

Elevation: 1368

APINO .: 47-049-01396 P

County: MARION

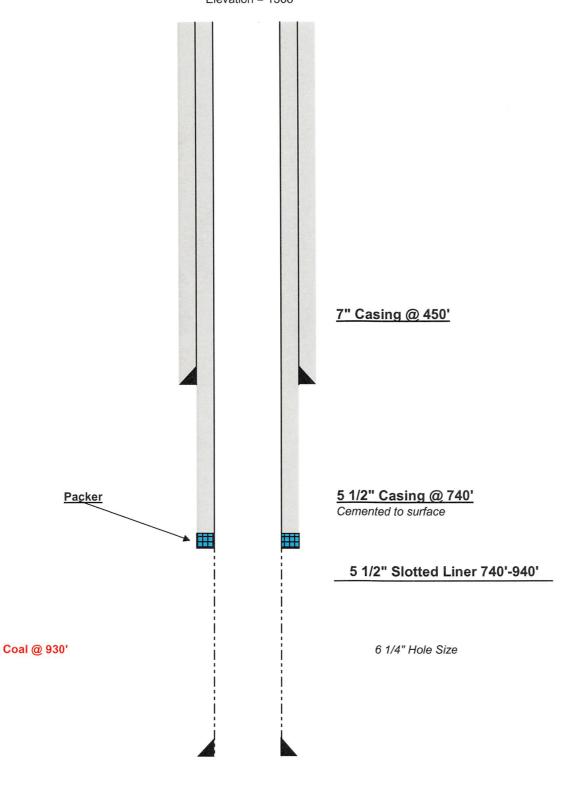
Loveridge Mine

*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-46

Mannington District, Marion WV Original Completion : 6/1983 API #47-049-01396 Elevation = 1368'



TD @ 940'

WR-35 Rev (9-11)

that the information is true, accurate, and complete.

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 #:	47-049-01396

Farm name: Carper, James P.	Operator Well	No.: L-46		
LOCATION: Elevation: 1368'	Quadrangle: _	/lannington		
District: Mannington Latitude: 6644 Feet South of 39 Deg. Longitude 4151.66 Feet West of 80 Deg.	County: Mario 37 Min 20 Min	. 30 Se		
Company: CNX Gas Company LLC	1	1		La
Address: 1000 Consol Energy Drive	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Canonsburg, PA 15317	7"	450'	450'	To Surface
Agent: Anthony Kendziora	5"	740'	740'	To Surface
Inspector: Sam Ward	5" Slotted	200'	200'	
Date Permit Issued: 12/02/2002				
Date Well Work Commenced: Existing Borehole	Packer		740'	
Date Well Work Completed: Converted to well				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 940				
Total Measured Depth (ft): 940				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 930				
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 114 MCF/d Final open flow Time of open flow between initial and final tests OStatic rock Pressure psig (surface pressure) af	zone depth (ft) slow 0 Bb v 0 Bb Hours	930 pl/d l/d	data on separate s	sheet)
Gas: Initial open flowMCF/d Oil: Initial open flowMCF/d Final open flowMCF/d Final open flow	vBb	1/d		RECEIVED Office of Oil and Ga
Time of open flow between initial and final tests				
				WV Department of Environmental Protec

10/02/2019 Date

ere core samples taken? Y	/es No	Were cuttir	ngs caught during drilling	?? YesNo
ere Electrical, Mechanical c	or Geophysical logs recorde	d on this well? If yes,	please list	
OTE: IN THE AREA RACTURING OR STIMU ETAILED GEOLOGICA OAL ENCOUNTERED B	ULATING, PHYSICAL C AL RECORD OF THE	HANGE, ETC. 2). T TOPS AND BOTTO	HE WELL LOG WHICOMS OF ALL FORM	CH IS A SYSTEMATIC
rforated Intervals, Fracturin	ng, or Stimulating:			
ug Back Details Including F	Plug Type and Depth(s):			
ormations Encountered: rface:		Γοp Depth	<i>J</i>	Bottom Depth
pplemental informatio	n requested per WV D	EP not at time of	well completion	
				RECEIVE Office of Oil a
				0CT - 4

WW-4A	
Revised	6-07

1) Date:				
2) Operator's Well Number				
L-46				
3) API Well No.: 47 -	049	-	01396	

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

		NOTICE	FAFFLICATIO	N TO I LUG AI	ND ADAINDON A WELL	
4)	Surface Own	er(s) to be served:	5) ((a) Coal Operator	•	
,	(a) Name	JAMES P & FRANCES E	CARPER	Name	Consolidation Coal Company	
	Address	1739 FLAT RUN RD		Address	46226 National Rd.	
		MANNINGTON WV 2658	32		Saint Clarisville, OH 43950	
	(b) Name			(b) Coal Ov	vner(s) with Declaration	
	Address			Name	Wheeling Dollar Savings & Trust Co.	
				Address	527 S. Main St.	
					Zelienople, PA 16063	
	(c) Name			Name		
	Address			Address		
6)	Inspector	Sam Ward		(c) Coal Les	ssee with Declaration	
	Address	P.O. Box 2327		Name	Consolidation Coal Company	
		Buckhannon WV 26201		Address	46226 National Rd.	
	Telephone	304-389-7583			Saint Clarisville, OH 43950	
	- 010 P - 10110					
	Take notice accompanyin Protection, w the Applicat	ng documents for a permit with respect to the well at t	f the West Virginia Cod to plug and abandon a v he location described or an mailed by registered	well with the Chief of the the attached Application or certified mail or de	operator proposes to file or has filed this the Office of Oil and Gas, West Virginia Doon and depicted on the attached Form Wilivered by hand to the person(s) named	Repartment of Environmental W-6. Copies of this Notice,
			Well Operator	CNX Gas Company, I	LC	
IMC	MONWEALTH OI NOTARIAL	FPENNSYLVANIA	By:	Erika Whetstone	ni hat whole	
r	NO TARIAL Douglas E. Smith,		Its:	Permitting Manager		
	Cecil Twp., Washi		Address	1000 Consol Energy I	Orive	
	Commission Expi			Canonsburg, PA 153	17	
ABER	R, PENNSYLVANIA ASS	OCIATION OF NOTARIES	Telephone	724-485-4035		
	loves 2	worn before me th		ay of Agus	+ 2019 Notary Public	RECEIVED Office of Oil and Gas AUG 2 2 2019
wy	Commission	Expires /2-C	-2020			

Oil and Gas Privacy Notice

WV Department of Environmental Protection

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 deprivacyoffier@wv.gov.

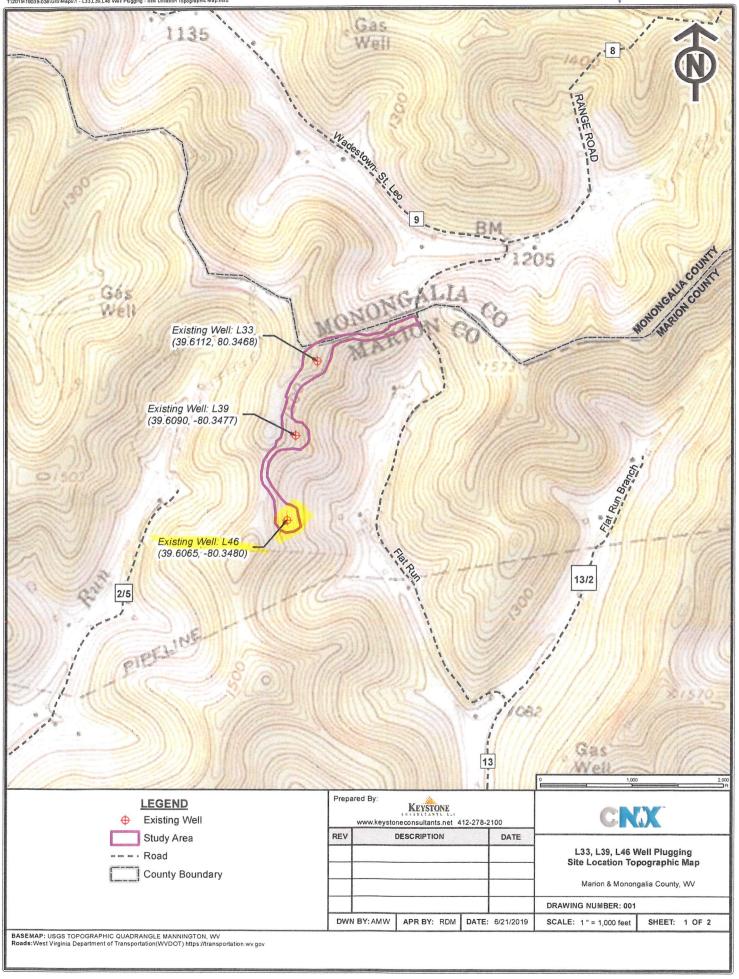
WW-9 (5/16)

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

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

1	FLUIDS/ CUTTINGS DISPOSAL & RECLAM	MATION PLAN	
Operator Name_CNX Gas Company, L	LC	OP Code 494458046	
	Quadrangle		
Do you anticipate using more than a Will a pit be used? Yes	5,000 bbls of water to complete the proposed w	vell work? Yes No ✓	
Will a synthetic liner be us	ipated pit waste: sed in the pit? Yes No If	so, what ml.?	
Proposed Disposal Method	l For Treated Pit Wastes:		
Undergrown Reuse (a	plication (if selected provide a completed form pund Injection (UIC Permit Number	ation) cuum trucks, and properly dispose of any fluid or waste returns.	au)
Will closed loop systembe used? I	f so, describe: no	7º	9W 13/19
		er, oil based, etc. na	
-If oil based, what type? S	ynthetic, petroleum, etc		
Additives to be used in drilling med	ium?na	·	
Drill cuttings disposal method? Lea	eve in pit, landfill, removed offsite, etc. na		
-If left in pit and plan to so	olidify what medium will be used? (cement, lin	ne, sawdust)	
-Landfill or offsite name/p	ermit number?		
	ce to the Office of Oil and Cas of any load of d The notice shall be provided within 24 hours of	•	
on April 1, 2016, by the Office of oprovisions of the permit are enforce or regulation can lead to enforcement I certify under penalty of application form and all attachment the information, I believe that the	Dil and Gas of the West Virginia Department of able by law. Violations of any term or condition action. law that I have personally examined and among the state of the set of t	n familiar with the information submitted on the individuals immediately responsible for obtaining I am aware that there are significant penalties for	he w nis ng Cor
Company Official Signature	he twhitte	Office of Oil	VED
Company Official (Typed Name)	Erika Whetstone	AUG_2 2	2010
Company Official Title Permitting	Manager	140.	
		WV Departm Environmental F	rotection
Subscribed and swom before me th	s_21st day of Agust	, 2019	
Dongs & Smith		Notary Pupile NOTARIAL SEAL	YLVANIA
My commission expires 12-6-8	2020	Douglas E. Smith, Notary P Cecil Twp., Washington Co My Commission Expires Dec. MEMBER, PENNSYLVANIA ASSOCIATION C	unty 6, 2020

			Operator's W	
Proposed Revegetation Treat	ment: Acres Disturbed	less than	1 acre Prevegetation pl	Н
Lime 2-3	Tons/acre or to co	orrect to pH _		
Fertilizer type 10-2	20-20 or equivalent			
Fertilizer amount_50	00	lbs/	acre	
Mulch_ hay or stra	aw 2	Tons/ac	re	
		Seed]	<u> Viixtures</u>	
Ter	mporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre .
Tall Fescue	40		Tall Fescue	40
Landino Clover	5		Landino Clover	5
Photocopied section of involve Plan Approved by:			¬	
	7 Duce	~ tet		
Comments:				
Title: CO G Z138	sector		Date: 8/13/19	Office of Oil and
V)Yes		Date: 8/13/19	Office of Oil and AUG 22 2015
Title: CO G Z 25				Office of Oil and AUG 2220 WV Department Environmental Prote



WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FORM: GPS
_{API:} 47-049-01396	WELL NO.: L-46
FARM NAME: Carper	
RESPONSIBLE PARTY NAME:	Erika Whetstone
COUNTY: Marion	_{DISTRICT:} Mannington
QUADRANGLE: Manningto	on
SURFACE OWNER: CARPE	R JAMES P & FRANCES E
ROYALTY OWNER:	
UTM GPS NORTHING: 43842	293.67
UTM GPS EASTING: 555976	GPS ELEVATION: 417.08m/1368.39 ft
preparing a new well location plat for above well. The Office of Oil and Gathe following requirements:	5 meters
Real-T Mapping Grade GPS X : Post	ime Differential
	Processed Differential
Rea	and Gas
4. Letter size copy of the to I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and O	opography map showing the well location. AUG 2 2 2019 data is correct to the best of my knowledge and required by law and the regulations issued and Environmental Protection Gas.
Cirle & White	Permitting Manager 8 21 19
Signature	Title Date