

### 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

May 08, 2015

#### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-3301476, 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 penalities 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

Сте

Operator's Well No: 7411

Farm Name: REYNOLDS-GOR

API Well Number: 47-3301476

Permit Type: Plugging
Date Issued: 05/08/2015

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.

	T.	33014761	)
1)Date_	3/9	20_15_	
2)Operat			
Well N	0.7411		
3) APT We	11 NO 47-033	- 01476	

## 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 $X$
- \	1160.74	Watershed Crooked Run
5)	Location: Elevation 1169.74' District Coal	County Harrison Quadrangle Clarksburg
	District Odd.	Country Lames Quadrangie Clames and
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
0 /	Name Sam Ward	Name See Attached
	Address P.O. Box 2327	Address
	Buckhannon, WV 26201	
.0)	Work Order: The work order for the mann	ner of plugging this well is as follows:  Received  Office of Oil & Gas  MAR 25 2015
		Received Office of Oil & Gas MAR 1 1 2015

Notification must be given to the district oil and gas inspector  $24\ \mathrm{hours}$  before permitted work can commence.

Work order approved by inspector SPW aud Date 3/9/15

Attachment - Form WW-4B:

### **Potential Plugging Contractors:**

Waco Oil & Gas P.O. Box 397 Glenville, WV 26351

Viking Well Service 8113 Sissonville Drive Sissonville, WV 25320

Stalnaker Energy 220 West Main Street Glenville, WV 26351

Contractor Services Inc. 929 Charleston Road Spencer, WV 25276

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

Peceived
Office of Oil & Gas
MAR 25 2015

Received Office of Oil & Gas MAR 1 1 2015

### Plugging Work Order for Permit 47-033-01476

### CNX Gas - Well DTI 7411



- 1. Verify TD. ≈ 3187'
- 2. TIH w/ 2-3/8" work string to TD
- 3. Pump bottom cement plug from TD to 3050'.
- 4. TOH w/ 2-3/8" work string. Wait on cement.
- 5. TIH w/perf guns and perforate lower section of 5 ½" casing from 2367'-1590'. 5 ½" casing was cut off and left in well to cover 30' & 50' sands.
- 6. TIH w/ 2-3/8" work string to 2520'.
- 7. Pump cement plug from 2520' to 1600' (csg point/cut/perfs, 30', 50', and gas shows).
- 8. TOH w/ 2-3/8" work string.
- 9. Attempt to pull 5 1/2". If unable to pull, free point and cut casing above the packer. Pull all free 5 1/2" casing.
- 10. Attempt to pull 6 5/8". If unable to pull, free point and cut casing. Pull all free 6 5/8" casing.
- 11. TIH w/ 2-3/8" work string to 1600'.
- 12. Set cement plug from 1600'-1350' (csg point/cut and gas shows).
- 13. TOH w/ 2-3/8" work string.
- 14. Attempt to pull 8 1/4". If unable to pull, free point and cut casing. Pull all free 8 1/4" casing.
- 15. TIH w/ 2-3/8" work string to 1200'.
- 16. Pump cement plug from 1200' to 750 (csg point/cut, water show, and elevation).
- 17. TOH w/ 2-3/8" work string
- 18. Attempt to pull 10" casing, if unable to pull perforate pipe.
- 19. TIH with work string to 550'
- 20. Pump cement plug from 550' to surface (gas & water shows and 10"csg point).
- 21. TOH w/ 2-3/8" work string, and top off cement to surface.
- 22. Install 6" diameter x 14' monument (10' below grade, 4' above grade) API 47-033-01476.

Work Order approved by Inspector Duant Date: 3/9/15

Note: All cement will be Class A. All spacers between plugs will be 6% gel. Any casing unable to be recovered will be perforated every 200' w/4-shots and 100' cement plugs wills be set to cover all cut points.

MAR 1 1 2015

Well No. 7411

3301476P

Buffalo District

# Hope Natural Gas Company REPAIR RECORD

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Office of Oil & Gas

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Metered 100.00 Yr. 2-28 33014760

HOPE NATURAL GAS COMPANY s 10 E 14w WELL 7411 Reynolds - Gore M. FROM 501,5th, Speechley
Drilled Deaper
From To DRILLED 1927 SANDS ORIGINAL TEST 576-M TEST AFTER Cleaning Out Driller DATE REPAIRS SANDS C.O. 103.7\*m Inj.,50',30',5th,Spec'ly 10-15-42 None R.P. 1947,38#; 1949,48# 1950,44#; 1952,41#; 1954,40#; 1956,37#; RESULTS SIZE 20 Qts. 26.7-M to 30.5-M 9-14-42 Speechly 9-14-42 10 Qts. 5th 30.5-M to 36.8-M 1034" 144 # 8%" 1124 # 7" 1505 FEET. WT. PER FT. FEET. WT. PER FT. FEET. WT. PER FT. 51/2" 2367 FEET. WT. PER FT. # TUBING 2%" FEET. WT. PER FT. # TUBING 31/2" FEET. WT. PER FT.

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## HOPE NATURAL GAS COMPANY 3301476P

Date May 10,	1929	•••••	••••					District	Buffalo
Inventory of	Well	#7411	(G.	L. &	H. Co	. #257)	Reynolds-Go	re:	
Coal	••••••••	District Pı	ırchas	ed Fr	Harri om Cla	<b>son</b> arksburg l	Light and Heat Co	 mnanv	County, West Virginia
Assigned No	We 11	#7411							**
Remarks		••••••	•••••					***************************************	••••
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uantity	INTEMS IN DETAIL			Book Cont	Analysi
	WELL CONTENT				
3186 10/12	Feet 2" Tubing				
2367	Feet 5 3/16" Casing				
1505	Feet 6 5/8" Casing				
1124	Fact 810 Casing				
144	Feet 10" Casing				
1	8th Casing Shoe				
1	6 5/8" x 82" Packer				
1	5 3/16" x 6 5/8" Packer				
1_	5 3/16" x 2" Anchor Packer 2 4". /	- السماء			
1	2" x 12" R. & L. Hipple 7 4 9	· " sûn".			
	SHUTTING IN OUTFIT				
					_ <u> </u>
1	6 5/8" x 5 3/16" x 2" Stuffing Box				_
	Casing Head	-			
1_	5 3/16" x 2" x 2" Stuffing Box				<u> </u>
	Casing Head				
1	2" Tee			اماري	
2	2" x 6" Nipples			77	7
5	2" x 8" Nipples				4
3	1" x 4" Mipples			1/2/	
4	2" - #9 Indlow Gates				
8	1" Brass Stops				<u> </u>
3	2" x 1" Bushings				_
3	1" x 3/8" Bushings				· <b></b>
1.	Set 2" Anohor Clamps				
3	Set 7/8" Anchor Rods	<u> </u>			
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### Estimated Cost Of Repairs

Estimated Cost

### HOPE NATURAL GAS COMPANY

### Defective Well Report

.. HISTORY OF WELL (Additional) Well drilled Feb. 29. 1928. To a depth of 3187 Teaming: Producing cas from In1.50' 30'. Fifth & Speechley Sands. Test of gas from Inj. 50 4 30 Orilling Machine & Tools 28/10 Water 2" Opening. Shut in on 6-5/8" Casimepis Shut in on 5-3/16" Casing. Test of gas from Speechley Sand. 30/10 Water 2" Opening. Shut in on 2" Tubing. Well bailed 2-6-35- Test before 30/10 Water 1" F.M. Or 41,222 Cu Ft. After 30/10 Water 1" F.M. Or 41,222 Gu Pt.50-Ft water bailed. Well bailed 10-1-36- Test before 36/10 Water 3/4" F.H. or. 25,413 Cu Pt. After 36/10 Water 3/4" F.H. or 25,413 Gu Ft.10-Ft water bailed. Well bailed 6-11-38- Test before 32/10 Water 3/4" F.M. or 23,963 Cu Ft. After 32/10 Water 3/4" F.M. or 23,963 Gu Pt.20-ft Water bailed. Pumping Water Hauling Well bailed 3-13-40. Test before 18/10 Water 3/4" F.M. er 17,972 Gu Ft. After 18/10 Water

Repairing Road

Test of gas from Fifth Sand 30/10 Water 1" Openinglies

3/4" F.M. or 17,972 Cu Ft. No Water.

Rig: Steel Wood

Repairing: (Labor

(Material

Building

Taking Down

Setting up machine

Use of Tools: Cleaning Out

Drilling

Pulling and running easing or tubing Cleaning Out-Labor Drilling Deeper " Running Liner " Torpedoes

Materials & Supplies Cleaning up around well

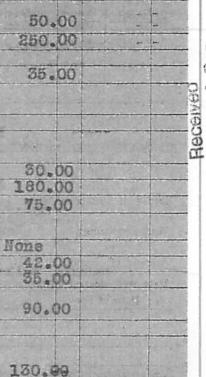
450.00

55.00

35.00

1467. 00

TOTAL



Actual Cost Treas. Dep't.

Recoin

Office

10 3

Hope Natural Gas Company Form H 487 20 Bks. 2-41 7411 S445 72 Report on Defective Well Working District Well No. ..... Reynolds-Gore .....District..... TEST TAKEN FOR THIS REPORT ORIGINAL TEST Balding Walliamid Inj sand alo Speechley (Daily (Monthly Record of Casing and Tubing in this Well: 144 0 1124 15051 2367 Depth of Pittsburgh Coal 50 30 Figure Original Depth Original Depth Amount of Cavings in hole: Oil-Produced by None Condition of Rig. 18/10 Water 3/4" F.H. er 17,972 Gu F Result:.. Date of Shot Sand Result Shot What should be done with well in my opinion:.. Clean out and report. I would recommend......

> Received Office of Oil & Gas MAR 25 2015

Repair as per recommendation of General Superintendent ..

Received Office of Oil & Gas MAR 1 1 2015

Ger eral Superintendent

marine Table 1885 Marine 1888

10" 145 CEAS CEAS THE IN 1928

3 14 SHORE

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MAR 1 1 2015

W2411-5H15244 - 387

LOC WILL MOTHERING ON A CONTROL OF CONTROL SERVICE SON THE FOR SERVICE SON THE CONTROL OF PROPERTY OF THE PARKE NOW. I ROOM IN GOOD PER SON THE SERVIC

Received Office of City Case

Mm: 25 2015

6/5

05/08/2015

WW-4A 1) Date: Revised 6-07 2) Operator's Well Offices of Oil & Gas 7411 3) API Well No.: 47 -033 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 See Attached (a) Name Name Three Musketeers Inc. / Tipple Enterprise, LLC Address Address P.O. Box 466 Lumberport, WV 26386 (b) Name (b) Coal Owner(s) with Declaration Address Name See Attached Address (c) Name Name Address Address 6) Inspector Sam Ward (c) Coal Lessee with Declaration Address P.O. Box 2327 Name None of Declaration Buckhannon, WV 26201 Address Telephone 304-389-7583 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 OFFICIAL SEAL Вy: Kelly Eddy NOTARY PUBLIC STATE OF WEST VIRGINIA Ats: Permitting Supervisor CAROLINDA FLANAGAN Address P.O. Box 1248 PO Box 803 Jane Lew, WV 26378 Lumberport WV 26366 nission Expires Septembor 15, 2021 Telephone 304-884-2131 - Kelly Eddy, Permitting Supervisor Received Office of Oil & Gas Subscribed and sworn before me day of MAR 1 1 2015 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

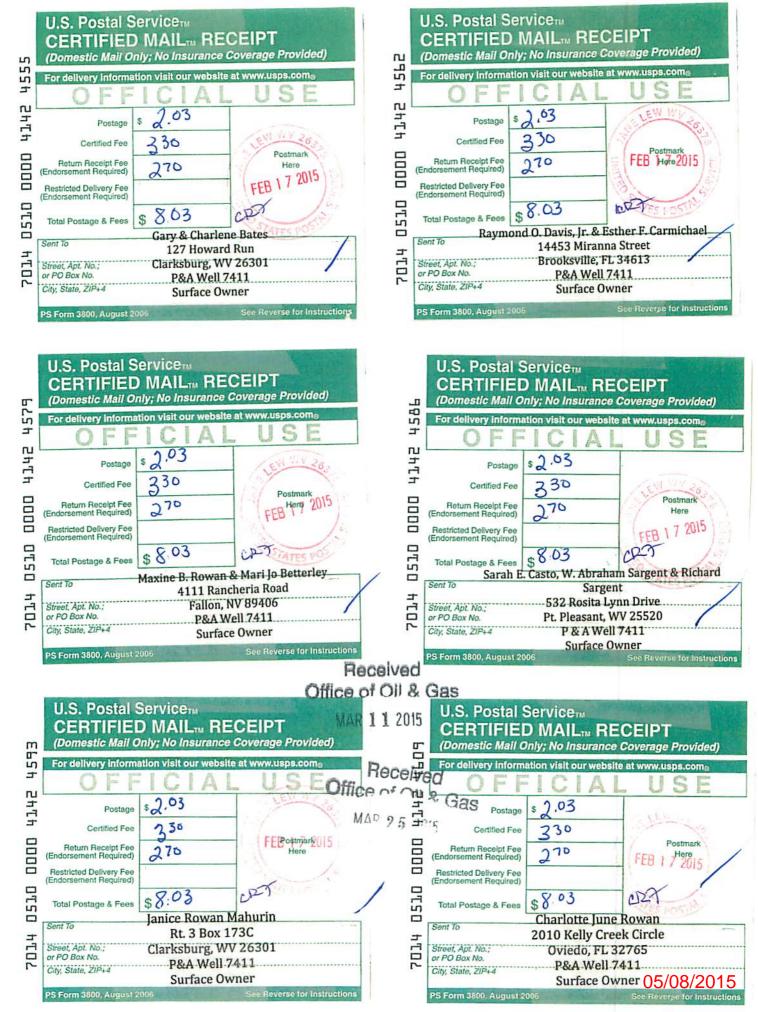
The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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 depprivacyoffier@wv.gov.

## SURFACE OWNERS: REYNOLDS-GORE #7411, API #033-01476, M/P 266-25, COAL DISTRICT, HARRISON COUNTY, WEST VIRGINIA:

1. Gary & Charlene Bates	2/7
127 Howard Run	
Clarksburg, WV 26301	
2. Raymond O. Davis, Jr. &	1/7
Esther F. Carmichael	
14453 Miranna Street	
/Brooksville, FL 34613	
V. Maxine B. Rowan &	1/7
Mari Jo Betterley	
4111 Rancheria Road	
Fallon, NV 89406	
<ol> <li>Sarah E. Casto, W. Abraham Sargent</li> </ol>	1/7
& Richard Sargent	
532 Rosita Lynn Drive	
Pt. Pleasant, WV 25520	
5. Janice Rowan Mahurin	1/7
Rt. 3, Box 173C	
Clarksburg, WV 26301	
d. Charlotte June Rowan	1/7
2010 Kelly Creek Circle	
Oveido, FL 32765	

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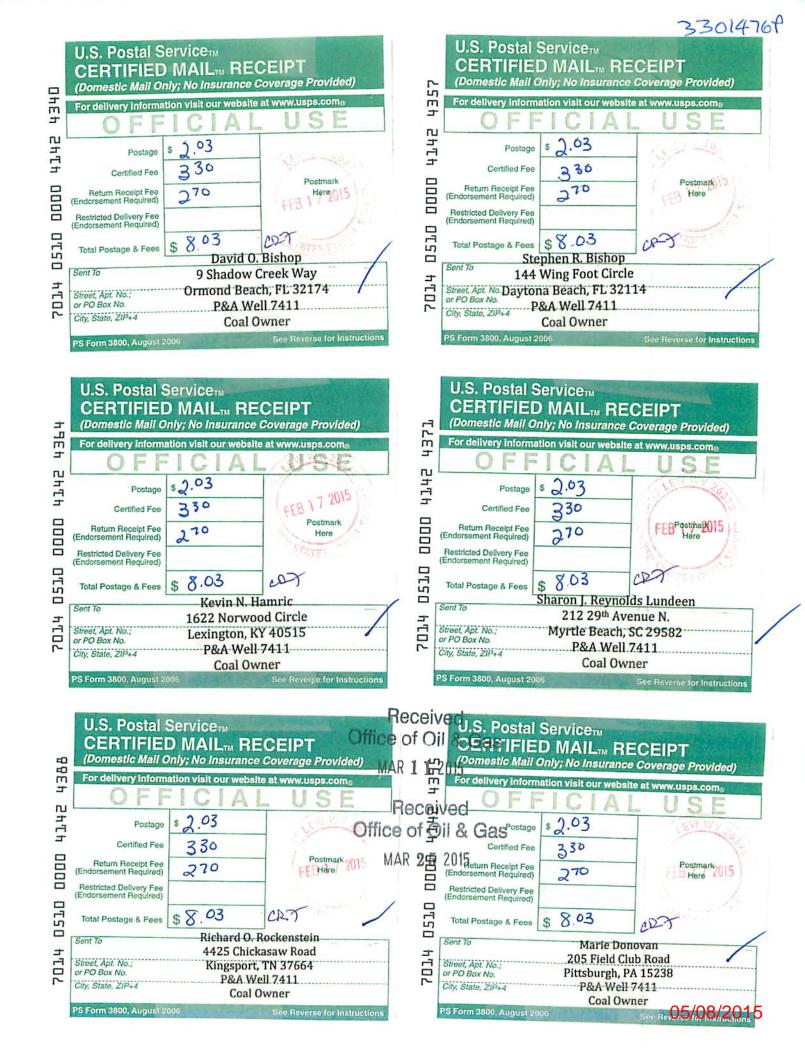
Received Office of Oil & Gas MAR 1 1 2015



## COAL OWNERS: REYNOLDS-GORE #7411, API #033-01476, M/P 266-25, COAL DISTRICT, HARRISON COUNTY, WEST VIRGINIA:

1	
1 David O. Bishop	
9 Shawdow Creek Way	
Ormand Beach, FL 32174	1/12
2. Stephen R. Bishop	
144 Wing Foot Circle	
Daytona Beach, FL 32114	1/12
3. Kevin N. Hamric	
1622 Norwood Circle	
Lexington, KY 40515	1/6
4. Sharon J. Reynolds Lundeen	
212 29th Avenue N.	
Myrtle Beach, SC 29582	1/6
5. Richard O. Rockenstein	
4425 Chickasaw Road	
Kingsport, TN 37664	1/3
6. Marie Donovan	
205 Field Club Road	
Pittsburgh, PA 15238	1/12
Z. EIGG Land Limited &	
Black Gold Group, Limited	
P.O. Box 31	
New Philadelphia, OH 44663	1/24
. )	
8. Katherine Cassidy &	
David J. Cassidy	
336 N. Christian St., Unit F	
Lancaster, PA 17602	1/24

Office of Oil & Gas MAR 2.5 2015 Office of Oil & Gas MAR 1 1 2015





25	(Domestic Mail C	O MAIL™ RE	Coverage Provided)
442	For delivery information	ation visit our website	at www.usps.coma
	OFF	ICIAL	USE
4745	Postage	2.03	10.0
	Certified Fee	330	- 2015
0000	Return Receipt Fee (Endorsement Required)	270	Postinark Here
	Restricted Delivery Fee (Endorsement Required)		1.
0270	Total Postage & Fees	\$ 8.03	CRIT
	Sent To	Three Musketeer:	s Inc./
-	Jen 10	Tripple Enterpris	e, LLC
F	Street, Apt. No.:	P.O. Box 466	;
7074	or PO Box No.	Lumberport, WV	26386
-	City, State, ZIP+4	P & A Well 74	11
	DOE	Coal Operato	r
	PS Form 3800, August 20	106	See Reverse for Instructions

U.S. Postal Service ... CERTIFIED MAIL, RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) 4478 ru 4746 203 Postage Certified Fee 330 Postmark Return Receipt Fee (Endorsement Required) 270 Here Restricted Delivery Fee (Endorsement Required) 570 CRA \$ 8.03 Total Postage & Fees Katherine Cassidy & David J. Cassidy 336 N. Christian St., Unit F 7074 Lancaster, PA 17602 Street, Apt. No.; or PO Box No. P & A Well 7411 City, State, ZIP+4 Coal Owner PS Form 3800, August 2006 See Reverse for Instructions

Received Office of Oil & Gas MAR 2.5 2015 Received Office of Oil & Gas MAR 1 1 2015 WW-9 Rev. 5/08

Pa	ge 1	of	2
API Number 47 - 033	3 -	01476	
Operator's Well No. 7	411		

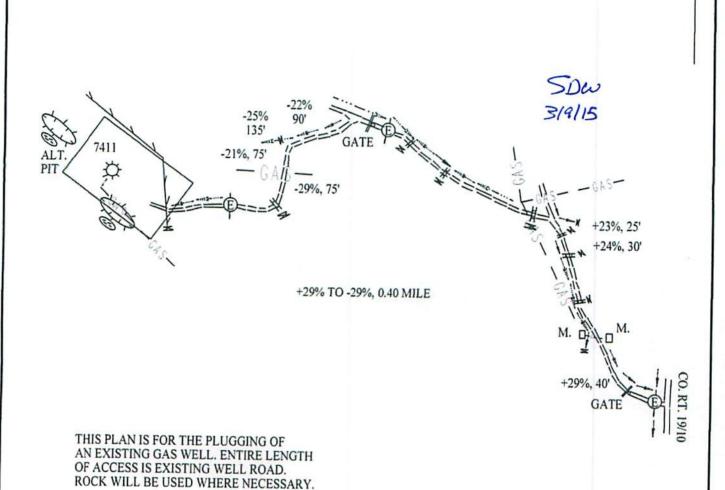
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

		GENERAL PERMIT FOR OIL A	ND GAS PIT WASTE DISCH	IARGE
Operator N	Name CNX Gas	Company LLC	OP Code	494458046
Watershed	Crooked Run		Ouadrangle Clarksburg	
Elevation	1169.74'	County Harrison		Coal
				sting gas wells NO PIT WASTE
				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		d in the pit? N/A.		SDW
Proposed D	Disposal Method	For Treated Pit Wastes:		SDW 3/Alis
	L	and Application		3/1/15
	U	Inderground Injection (UIC Permit	Number	)
	R	euse (at API Number		
	<u>x</u> c	ff Site Dispposal (Supply form WW	-9 for disposal location)	
	<u>x</u> 0	ther (Explain Waste Management or Ryan	Environmental use vacuum trucks, and pr	roperly disposes fluid and waste returns
D				
Proposed W		Pit Will Be Used:		
	-	rilling	Swabbing	
			Plugging	
	0	ther (Explain		
law or regul I c application obtaining th penalties for	lation can lead to certify under pen form and all at ne information, I r submitting false	enforcement action.  alty of law that I have personally estachments thereto and that, based believe that the information is truinformation, including the possibility.	examined and am familiar with on my inquiry of those indivers, accurate, and complete. I	ntal Protection. I understand that the eneral permit and/or other applicable the information submitted on this riduals immediately responsible for am aware that there are significant  Received Office of Oil & Gas
Company O	fficial (Typed N	Kelly Eddy		
Company O	fficial Title Pe	rmitting Supervisor		MAR 1 1 2015
Subscribed a	and sworn before	me this 974 day of A	MARCH 20	15
au	Linda	Jan Jan	, 20 Nons	
			S WIND	OFFICIAL SEAL NOTARY PUBLIC
	0/4	5/2021	eceived }	STATE OF WEST VERGINIA
Ay commiss	sion expires 9/1	SIZUZT UITICE	of Oil & Gas	CAROLINDA FLANAGAN PO Box 803
			25 2015	Lumbuport W 26386

3301476P

L	EGEND		
Property Boundary	Diversion ((:(()))	MINIMA TO THE TOTAL THE TO	LI.
Road = = = = = = = = = =	Spring		
Existing Fence — X — X — X —	Wet Spot		
Planned Fence / / /	Drain Pipe with size in inc	thes (2)	-
Stream	Waterway C+ C	$\rightarrow \hookrightarrow \hookrightarrow \hookrightarrow$	
Open Ditch	Cross Drain 7777		
Rock #85885	Artificial Filter Strip	× * * * * * * * * * * * * * * * * * * *	X
North N	Pit: cut walls	3 muy	
Buildings	Pit: compacted fill walls	Frances	
Water wells W	Area for Land Application	n of Pit Waste	
Drill site			
Proposed Revegetation Treatment: Acres Disturbed 1.00 a	cres Prevegetati	on pH 6.5	
Lime according to pH test Tons/acre or to correct to pH			
		Offi Roca	14
	cre (500 lbs minimum)	"I'Ce Of O	VOC
Mulch hay or straw @ 2	re	MAR 2~	118
		Office of O	015
Seed	Mixtures		
Area I	Carl	Area II	
Seed Type lbs/acre Orchard Grass 25	Seed Type	lbs/acre	
	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 applic Photocopied section of involved 7.5' topographic sheet.	eation.		
The section of involved 7.5 topographic sheet.			
Plan Approved by: Published		Received	
Comments:		Office of Oil & Gas	E
		MAR 1 1 2015	
Fine BOOT - + -	26/10		
Title: OOGInspector	Date: 3/9/15	<del></del>	
Field Reviewed? () Yes ()	_) No		



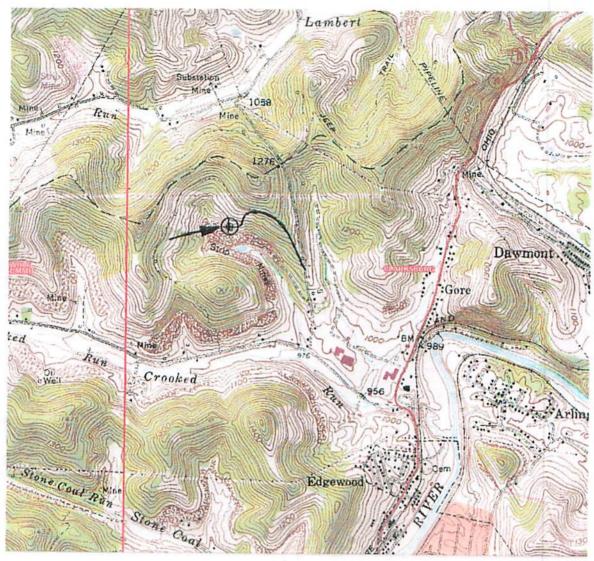
Received Office of Oil & Gas

MAR 25 2015

MAR 1 1 2015 Received Office of Oil & Gas

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

DRAWN	NGS TO ACCOMPANY FORM WW-9
C	NX GAS COMPANY LLC
	P. O. BOX 1248
-	JANE LEW, WV 26378
WATERSHED:	CROOKED RUN
DISTRICT:CO	AL COUNTY: HARRISON
QUADRANGLE:	CLARKSBURG WELL NO.: 7411
DATE:11/1	3/14 PAGE of



SDW 319115

Office of Oil & Gas MAR 2 5 2015

> Office of Oil & Gas MAR 1 1 2015

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

DRAWINGS TO ACCOU	MPANY FORM WW-9
CNX GAS COMI	PANY LLC
P. O. BOX 1	248
JANE LEW, W	V 26378
WATERSHED: CROC	OKED RUN
DISTRICT: COAL C	OUNTY: HARRISON
QUADRANGLE: CLARKSBURG	_ WELL NO.:
DATE:11/13/14	PAGE of

WW-7 5-02

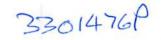


### West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

Office	Receil of Oil	to
MAR	OF OII	& @ @Q
	25 2015	& Gas

	API:	47-033-0147	76	WI	ELL NO.:	7411		_
	FARM NA	ME:	REYNOL	DS - GORE				_
	RESPONSI	IBLE PARTY N	IAME:	CNX GA	AS COMPANY	LLC		
	COUNTY:	НА	RRISON	DISTR	ICT:	COAL		_
	QUADRAN	NGLE:	С	LARKSBUI	RG			_
	SURFACE	OWNER:		GARY BA	TES, ET. AL.			
	ROYALTY	OWNER:	F	CICHARD C	. ROCKENSTE	EIN		_
			4,352,291.13 ME					
	UTM GPS I	EASTING:	554,545.25 MET	ERS	GPS ELEVA	TION: 356.54 N	METERS (11	69')
a plu follo 1.	ugging permit or owing requireme Datum: NAD 1 Accuracy to Da	on the above well ents: 1983, Zone: 17 atum - 3.05 meter n Method: Surv	e has chosen to subm . The Office of Oil an Coordinate Units: ers vey Grade GPS pping Grade GPS	nd Gas will i meters A _: Post Pro	not accept GPS  Ititude: Height:	coordinates that do above mean sea lev	o not meet the rel (MSL) - met me Differentia	ters I
I the	undersigned he was and the regul	ereby state this d lation issued and	lata is correct to the I prescribed by the C	best of my k Office of Oil	nowledge and b	pelief and shows all	the informatio	on required
Sign	nature	phen D. Losh, PS	5 #674	Title	Wy Prof Rece Office of t	fessional Surveyor	#674	PHEN D. LICENSED
Date	e11/13	3/14	_		MAR 1	1 2015	*	No. 0674

CNX USE: NAD 27 WV NORTH SPC: 7411 = 299,196.03' 1,754,586.25' ELEV. = 1169.74'



## 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 <a href="mailto:sdlosh@frontier.com">sdlosh@frontier.com</a>

November 13, 2014

### **DRIVING DIRECTIONS FOR 7411**

From the junction of U. S. Route 19 and State Route 20 with County Route 19/10 (Crooked Run Road) at Gore, proceed on County Route 19/10 for 0.40 of a mile. Turn right staying on County Route 19/10 and go 0.30 of a mile and turn left on the well road.

Nearest Fire Station: Clarksburg West

Office of Oil & Gas MAR 25 2015 Received Office of Oil & Gas MAR 1 1 2015

Dist.	Permit	Number	

BOND Number CMS213855

## **OIL and GAS DATA INFORMATION SHEET**

APPLICANT
Company Name CNX Gas Company, LLC
Address P. O. Box 1248
City <u>Jane Lew</u> ST <u>WV</u> Zip <u>26378</u>
Contact Person Permit Kelly Eddy Telephone 304-884-2131
24/7 Road Maintenance Contact John Sampson Telephone 304-884-2000 Cell 304-777-7811
24/7 Backup Contact Geoff Fanning Telephone 304-884-2046 Cell 304-376-8409
Drilling/ Fracking will require Usage of $\underline{X}$ Less than 5000 Barrels of fluids 5000 /+
Site Location
Site Name <u>7411</u> Road Local Name <u>Crooked Run Road</u> Rte.# <u>Co. Rt. 19/10</u>
Approach location WGS 83 Decimal Format GPS N: 39.31595 W: 80.36174 County Harrison
Location Description
On Rte.# CR 19/10 being 0.70 miles NW of Jct. of Rte.# US 19 and Rte.# CR 19/10
DOH USE ONLY HAULING ROUTE From US or WV Route (Attach Map)
Name & Rte.# Beg MP End MP Surface Type Condition
Office of O'
Received Office of Oil & Gas  MAR 1 1 2015
MAR 25 2015
05/08/2015
Well location WGS 83 Decimal Format GPS N: <u>39.31831</u> W: <u>80.36724</u>
W// DED Down it No. 1 47
WV DEP Permit Number 47 - 033 - 01476

PERMIT NUMBER

STATE COUNTY

Form MM-109			10 1 10 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1
Rev. 05-19-05	PERMIT NO		
PERMIT TO ENTER UPON, UNDER, OVER OF WEST VIRGINIA, AS PROVIDED FOR IN SEARTICLE 16, CHAPTER 17; SECTION 8, ARTICLAMENDED.	R ACROSS THE STA	TE ROADS	OF THE STATE OF
THIS PERMIT, Made thisday of	20	hatwaan t	he WEST VID CDIIA
DEPARTMENT OF TRANSPORTATION, DIVIS	ION OF HIGHWAYS	, between t	me west viriginia
called DIVISION and	CNY Gas Company	a statutory co	orporation nereinanter
Address: P. O. Box 1248 Jane Lew, V	VV 26378	Phone No.	204 994 2046
hereinafter called APPLICANT.	VV 20070	- Filone No: _	304-664-2046
	NESSETH		
In consideration of the hereinafter set out covena 17; or Section 9, Article 16, Chapter 17; or Sectio Virginia, 1931, as amended, and the rules and regulapply to enter	ants and in accordance n 8, Article 4, Chapte ations promulgated the	r 17, of the Cereunder, APP	Official Code of West LICANT does hereby
Route Type & No. County Route 19/10 D	OH Project No.		(if applicable);
at 0.70 miles NW of junction with t	J. S. Route 19	Mile	Post
in County, for t	he purposes hereinafter	set forth and i	n accordance with the
plans and specifications which are attached hereto an	d made a part hereof:	to utilize a	and maintain an
existing entrance for ingress and egress on Cou			
well 7411. See attached road entry sketch.		pa.pooo o	plagging existing
APPLICANT further agrees to accept the condition	ons hereinafter set forth	1:	
<ol> <li>APPLICANT shall deposit with DIVISION the certified or cashier's check, or executed bond v and inspection costs DIVISION may sustain expense incurred in restoring said highway to damages that may result within one (1) year from</li> </ol>	by reason of the gran	iting of this poor the proper	ermit, including any
<ul> <li>APPLICANT agrees to reimburse DIVISION f</li> <li>A. For any inspection costs incurred under per linear foot f</li> <li>C. At \$ per linear foot f</li> </ul>	for inspection costs as for this permit.  For feet of volume feet of s	ollows: water line insta ewer line insta	alled under this permit alled under this permit
<ol> <li>APPLICANT shall notify DIVISION at least Failure to comply will be cause for cancellation</li> </ol>	t 48 hours in advance of this permit.	of the date t	the work will begin.
<ol> <li>APPLICANT agrees to protect its employee accordance with the current Division of High Construction and Maintenance Operations".</li> </ol>	nways manual "Traffic	Control For	Street and Highway
5. APPLICANT agrees to comply with all appli under this permit Office of	cable state and federal	laws in the p	performance of work
<ul> <li>Construction and Maintenance Operations".</li> <li>5. APPLICANT agrees to comply with all appli under this permit Office of Oil</li> <li>6. Supplementary conditions cited on the reverse hereof.</li> <li>7. The work authorized under this permit shall be</li> </ul>	Side of this blencht are	understood an	degreed Robinspart
7. The work authorized under this permit shall be	MAR 11 2015 completed on of before	(Date):	MAR 1 1 2015
RECOMMENDED:			
Title	Kelly Edi	dy pers	citting Supervis
BOND REQUIREMENT: BOND NO. CMS 0 26 0 702 /DATE 7/6/11	APPROVED:	re and the of A	05/08/2015
Attached On File			
INSPECTION: Owner/Consultant  Full Time Part Time	Title	. Waster San San San San San San San San San San	
Periodic Reimbursable No Cost	Wes	t Virginia Division of	Highways
AUTHORIZATION NO:	DEDMITNO		
The second contraction of the second	PERMIT NO:		

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## CHAPTER 17 WEST VIRGINIA CODE, 1931

## §17-4-8. Use of roadbed by railroad, telephone company, etc.

No railroad or electric or other railway shall be constructed upon the roadbed of any state road, except to cross the same, nor shall any person, firm or corporation enter upon or construct any works in or upon such road, or lay or maintain thereon or thereunder any drainage, sewer or water pipes, gas pipes, electric conduits or other pipes, nor shall any telephone, telegraph or electric line or power pole, or any other structure whatsoever, be erected upon, in or over any portion of a state road, except under such restrictions, conditions and regulations as may be prescribed by the state road commissioner. Whenever any railroad or electric or other railway, heretofore or hereafter constructed, shall cross any state road, it shall be required to keep its own roadbed, and the bed of the road or highway at such crossing, in proper repair, or else to construct and maintain an overhead or undergrade crossing, subject to the approval of the state road commissioner; and the tracks of such railroad or railway at grade crossings shall be so constructed as to give a safe and easy approach to and across the same, and when the construction of such approaches is made necessary by a change in the railroad grade at the grade crossing, the cost shall be upon the railway company.

### §17-16-6. Permit by commission or county court for openings in or structures on public roads; franchises and easements of oil, etc., transportation companies.

No opening shall be made in any state or county-district road or highway, nor shall any structure be placed therein or thereover, nor shall any structure, which has been so placed, be changed or removed, except in accordance with a permit from the state road commission or county court, as the case may be. No road or highway shall be dug up for laying or placing pipes, sewers, poles or wires, or for other purposes, and no trees shall be planted or removed or obstructions placed thereon, without the written permit of the commission or county court, or its duly authorized agent, and then only in accordance with the regulations of the commission or court. The work shall be done under the supervision and to the satisfaction of the commission or court; and the entire expense of replacing the highway in as good condition as before shall be paid by the persons to whom the permit was given, or by whom the work was done: Provided, however, That nothing herein contained shall be so construed as to prevent any oil or gas company or person having a proper permit or franchise from transporting oil or gasoline along any of the public highways of this State, nor to give such company a franchise without paying to the landowners through whose lands such road passes the usual and customary compensation paid or to be paid to the landowners for such right of way. Any grant or franchise when made shall be construed to give to such company or person only the right to use the easement in such public road.

A violation of any provision of this section shall be a misdemeanor, and the person or corporation violating the same shall, upon conviction thereof, be fined not less than twenty-five nor more than one hundred dollars for each offense.

## §17-16-9. Private driveways or approaches to roads; obstruction of ditches.

The owner or tenant of land fronting on any state road shall construct and keep in repair all approaches or driveways to and from the same, under the direction of the state road commission, and, likewise, the owner or tenant of land fronting on any county-district road shall construct and keep in repair approaches or driveways to and from the same, under the direction of the county road engineer, and it shall be unlawful for such owner or tenant to fill up any ditch, or place any material of any kind or character in any ditch, so as in any manner to obstruct or interfere with the purposes for which it was made.

Office of Oil & GSUPPLEMENTARY CONDITIONS

- MAR 25 2015

  1. The person, firm or corporation to whom a permit is issued agrees to hold the State of West Virginia and DIVISION harmless on account of any damages to persons or property which may arise during the process of the work authorized by this permit or by reason thereof.
- 2. Applications for permission to perform work within highway rights of way shall be made on DIVISION'S standard permit form and shall be signed by the authorized representative of the person, firm or corporation applying.
- The APPLICANT shall give detailed information concerning the work to be performed and the application must include a sketch sufficient to show the nature of the work performed.
- APPLICANT, his agents, successor, heirs or assigns, contractors or any other person, firm or corporation working under APPLICANT'S real or apparent authority, shall perform the work in a manner satisfactory to DIVISION. Damage to the road resulting at any time from work authorized under this permit shall be repaired by APPLICANT. Unsatisfactory repairs may be a corrected by DIVISION or its authorized agent and the cost thereof paid by APPLICANT.
- 5. DIVISION assumes no liability for damage to the proposed work by reason of construction or maintenance work on the road.
- This permit is granted subject to removal of the authorized installation by APPLICANT at no cost to DIVISION when required for improvement of the road, and subject to all regulations now or hereafter adopted by DIVISION.
- Utility installation shall be in accordance with the current manual, "Accommodation of Utilities on Highway Right of Way".
- Driveways shall be in accordance with the current manual, "Rules and Regulations for Constructing Priveys 5015 State Highway Rights-of-Way."

MAR 1 1 2015

- DIVISION reserves the right to cancel this permit at any time, should APPLICANT fail to comply with the terms and conditions under which it is granted. Office of Oil & Gas
- 10. This permit is granted only insofar as the DIVISION has a right to do so.

7-2	9-09
	API# 47-033-01476
	Operator CNX GAS CO. LLC
	Well #/Name74/1
	Povioved Pr
	Reviewed ByEnd of Comment Period
III.	
111.	Plugging Permit
	WW-4B
	WW-4B signed off by inspector
	WW-4A
	Surface Owner Waiver
	Coal Owner/Operator/Lessee Waiver
	WW 0 front
	Ww-9 front  Wylar Plat ww 7  Well Records/Completion report  MAR 25
	Well Records/Completion report
	Well Records/Completion report Topography Map of well & pit if pit is used  MAR 25 2015
	Certified Mail Receipts or affidavit of personal service
	Bond Bond
	A check for \$100.00 (if a pit is being used)
IV.	Coalbed Methane
IV.	Coalded Methane
	WILL ST
	WW-5B
	WW-5(B)
	WW-5(B) signed off by inspector
	WW\5A
	Coal Owner/Operator/Lessee Notification/Waiver
	Surface Owner Waiver
	Natural Gas Lessee/Operator Waiver
	Consent To Stimulate. Notified all owners and operators of seams of coal 28
	inches or more within 750 feet of proposed well bore and stimulation is requested or a
	seam that is within 100 vertical feet of proposed stimulation zone.
	WW-9 (page 1 and 2)
	Reclamation Plan
	Inspector Signature on WW-9
	Public Notification (newspaper notification)
	Mylar Plat
	Not within 100 ft. of the outside boundary of the tract
	No permitted CBM wells within 1600 ft. without a waiver from all coal
	owners and operators.
	Topography Map
	Database for Coal Depths, Permits, Boundaries  WW-2B (1)  Received
37	WW-2B (1)
-	WW-2A(1) Office of Oil & Gas
	Certified Mail Receipts or Affidavit of Personal Service MAR 1 1 2015
-	Bond
_	A check \$900.00 (if no pit \$800.00)
	Workers Comp/Employ OV



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



March 9, 2015

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

RE: Well to be Plug and Abandoned: 7411

To Whom it May Concern,

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

7411 - API #47-033-01476

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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MAR 25 2015

OF-9 Re . 1/10 BC TO NUMBER CMS0200746

STATE OF MEST CORGINIA DEPART GET OF ENVIRONMENTAL PROFESTION OFFICE OF OIL AND GAS BLANKET BOND FOR DIL OR GAS WELLS, LIQUID INJECTION WELLS OR WASTE DISPOSED WELLS

MRATIFIALL MENT BY THESE PRESENTS:	
(1) Thus we, CNX Gas Company LLC	<del></del>
(2) CNX Center, 1000 CONSOL Energy Drvo, Cantrollurg, PA 15117-8506	<del></del>
As Principal, and (3) Riffmerance Company	
(4) P.O. Box 3997, Peons, R. BiG12 a firm and/or a componention authorized to do buttine with the State Surety, are held and firmly bound unto the State of Mest "Trginia in of (5) we numerised dollars (\$250,000 ) to the paper of when make, we bind ownerlies, our neits, executors, administrators, suc jointly and neverally, firmly of these presents.	the just and full sur mof well and truly to
DHEREAS, the abole bound Principal in pursuance of the prolisions of and/or CA, of the Code of Most Mirginia, 1931, as amended, and the rether under, has made or intends to make application to the Chief of Gas, Expandent of Environmental Protection, the State of Most Mirg perform well work (as defined in Chapter 22, Article 6 and/or CA), and/or liquid injection wells and/or waster dismosal media, or has a or about the detailed acquire of purchase runn fells, or has been apprenting responsibility, for such wells located in dest Virginia; and	equiations promulgated the Office of Oil and this for a permit to an oil or was wells equired or purchasted,
WHERE-S, THE Coligee as a condition preparent to the include of suc- other oblogation has required the Principal to Eurnish a SURERY -C Goligee quarantioing the performance of said provisions of Chapter 22 the Code of Must Mirginia, 1931, as amended, and the regulations promu	nO acceptable to the , Attitle b or 6A, or
NOW THEREFORE, the condition of this obligation is such that if the Engrepresentations, such condition of this obligation is such that if the Engrepresentations, such while shall information attention of affidavits as may be required by the Departre Protection, Office of Oil and Gas, documenting that said wells he abandoned in accordance with Chapter 22, Article 6, of the Gode of Wallender, and the reculations promulgated thereunder, then this obligations to result in full force and effect.	A work tas defined in furnish all reports, int of Dovirons stal ave been plugged and at Virginia, 1981, as
This bond shall by effective from the (11) Was day of May released by the Department of Environmental Protection.	, 2012 , mm()
IN WITNESS MHEREOF the said frincipal has hereunder set his or its ha its seal, and the said surety has caused its corporate name to be corporate seal to be directly affined by its duly authorized of instrument this (12) was day of May	signed herato and its
(15) Frincipal (13) CNX Gos Company LLC  (14) Sy: (Title) Nicholas J.	(Seal) DeIuliis, Manager
(17) K. Sonda Klarety: Sandra L. Hom, Attorney-in-Fact	(363);
19) County-caigned: NA (Resident West Virginia Agent)	Poortus
(20) W. Heronii (21) Te Received	Received
Office of Oil & Gas	Office of Oil & Gas
MAR 25 2015	MAR 1 1 2015

(IETERSE)

#### **ACKNOWLEDGMENTS**

2. County of	OF		
	of		
• •	•,		to-wit:
3. i,		, <del>-</del>	, a Notary Public in and for the
4. county a	and state aforesaid, do hereby c	ertifiy that	
	· · ·		same before me in my said county.
5. Given un	nder my hand this	day of	20
6. Notary S (Nota	Seal ary Public)	7	
8. My comr	mission expires on the	day of	20
Acknowled	dgment by Principal if Corp	oration or Limited Liability Co	mpany
9. STATE OF	Pennsylva	nia	
10. County of	ofWashingto	n	to-wit:
11. I,	Kathryn A	. Galie	, a Notary Public in and for the
12. county a	and state aforesaid, do hereby o	entity that Nicholas J	. Deluliis
13. who as	<u> Manager</u>		signed the foregoing writing for
14 has this corp/LLC.	CNX Gas Company s day, in my said county, before	, LLC me, acknowledged the sald writing	a corporation/LLC, to be the act and deed of the said
15. Gi <u>ven u</u>	3 rd W <mark>drwydaigh br<sub>enneylyn</sub></mark>	MTA day of May	20 12.
16. Notary S K (Něpa My	Seal Notarial Seal Kathryn A. Galle, Notary Public par fit, Majr Twp., Allegheny Count y Commission Expires Oct. 1, 2015	7. Kukun	) Salie
18. Муеввар	DATO HOTER PERSONALISM	MARIES day of October	20 15
-	gment by Surety		
	<sub>OF</sub> Missouri		
	of St. Louis City		to-wit:
<sub>21. I,</sub> <u>JoA</u> r	nn R. Frank		, a Notary Public in and for the
22. county a	nd state eforesald, do hereby co	rtify that Sandra L. Ham	
23. who as, :	Attorney-In-Fact		signed the foregoing writing for
<sub>24.</sub> RLI Ir	nsurance Company		
has this corporation.	day, in my said county, before		a corporation ting to be the act and deed of the
25Given un	receny hand this 02nd	<sub>day of</sub> May	20 12
26. Notary s	Harry Say:	day of May 27	R. Frank
1117 2 1111	L== 20, 2011 niiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	day of June	20 14
Hica Osumilia	Case and Manner	Received Office of Oil & Gas	
Of Execution	n Approved	TE: Attorner	v General

05/08/2015



RLI Surety
P.O. Box 3967 | Pcoria, IL 61612-3967
Phone: (800)645-2402 | Fax: (309)689-2036
www.rlicorp.com

## POWER OF ATTORNEY RLI Insurance Company

#### Know All Men by These Presents:

That RLI Insurance (	Company an Illinois o	corporation doe	s hereby make	constitute and appoint:	
				eider, JoAnn R. Frank, Karen L. Roider,	Sandra L. Ham.
in the City of power and authority h	Saint Louis nereby conferred, to s	_, State of ign, execute, a	Missouri cknowledge an	its true and lawful Agent and deliver for and on its behalf as Suret	
Any and all bonds pr	ovided the bond pens	alty does not ex	ceed Twenty F	ive Million Dollars (\$25,000,000.00).	
The acknowledgment a executed and acknowledge	and execution of such edged by the regularly	bond by the sai	d Attorney in F s of this Compa	act shall be as binding upon this Compan ny.	y as if such bond had been
The RLI Insurance Coof RLI Insurance Co			owing is a true	and exact copy of the Resolution adopted	by the Board of Directors
the Company by the of Directors may a Attorneys in Fact or seal is not necessary	President, Secretary, a uthorize. The Presid Agents who shall hav	any Assistant Secnt, any Vice e authority to is bonds, policies	ecretary, Treasu President, Secusive bonds, poli s, undertakings,	ons of the corporation shall be executed in the corporation shall be executed in the corporation of the corporation of the Corp	er officers as the Board Treasurer may appoint company. The comporate
IN WITNESS WHER corporate seal affixed to	EOF, the RLI Insurations lith day of	ance Company	has caused th	esc presents to be executed by itsV	ce President with its
State of Illinois County of Peoria	ss	M. H. W. W. W. W. W. W. W. W. W. W. W. W. W.	SEAL	By: Roy C. Die	Vice President
,				CERTIFICATI	2
On this	Roy C. Die , who gned the above Power of ance Company and ackr	nowledged said in	ulý sworn, ne aforesaid strument to	I, the undersigned officer of RLI Insurcorporation of the State of Illinois, do herek Power of Attorney is in full force and effe furthermore, that the Resolution of the Co Power of Attorney, is now in force. In the hereunto set my hand and the seal of the F this O2ndday of May 2012	ny certify that the attached ct and is irrevocable; and inpany as set forth in the estimony whether I have the stimony whether the
Cherie L. Montgome	ry /	· .		RLI Insurance Company	MAR 1 1 2015
<b>,</b>	"OFFICIAL SEAL"				

# OIL AND GAS ROAD DISTRICT WIDE BONDING AGREEMENT For DOH District 4

THIS AGREEMENT, executed in duplicate, made and entered into this jo day of Murch, 2012, by and between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, hereinafter called "DEPARTMENT," and CNX Gas Company, LLC, hereinafter called "COMPANY."

#### WITNESSETH:

WHEREAS, Company has horizontal gas well drilling operations in certain areas of West Virginia; and

WHEREAS, the Department believes that the frequent and repetitive use of certain sections of highways in the State by Company, its contractors, agents, independent contractors or suppliers of drilling materials or drilling equipment, and employees contributes to increased wear and tear to public roads in the state road system in the State, including local roads ("State Owned Roads"); and,

WHEREAS, the Department and Company have entered into this Agreement to satisfy the requirements of the Department's policy entitled "Oil & Gas Road Policy" dated January 3, 2012, as issued by Paul A. Mattox, Jr., Secretary of Transportation / Commissioner of Highways, and any subsequent related policies, hereinafter called "Policy", a copy of which is made a part of this Bonding Agreement and is identified as Attachment 1.

NOW, THEREFORE, for and in consideration of the mutual agreements hereinafter set forth, the parties agree as follows:

- I. For purposes of this Bonding Agreement, "Project Transportation Usage" of the Company shall be understood to mean use of one or more State Owned Roads for the delivery and removal of drilling materials and drilling equipment at the site or location of one or more of Company's horizontal gas well pad locations. To the extent reasonably practical, prior to commencing use of a State Owned Road for Project Transportation Usage after January 1, 2011, the Company shall submit to the Department a section or sections of current official WVDOH County Highway maps identifying the exact location of the proposed project and the State Owned Roads that the Company will utilize for the Project Transportation Usage.
- II. Company and Department shall within 14 days of the Company's submittal, agree to a list of these sections of State Owned Roads, hereinafter called "Project Roads List", to be utilized for each of Company's projects, identified by route number and milepost; at a time to be mutually agreed to by the parties prior to initial commencement of Project Transportation Usage of a particular State Owned Road on a Project Roads List, the Company and Department will jointly review the condition of the roads and bridges on the Project Roads List. The Department will document the road type and surface condition and general right-of-way width of each section of road on the Project Road List. Either party may supplement this documentation with photographs, video or other evidence of the present condition of the road surface, shoulders, ditches, culverts, bridges or other structures or appurtenances of roads on the Project Road List, as well as approaches to the roads, utility facilities located within or along the right-of-way, or any other condition, including third-party activities, that may affect the duties and responsibilities of the parties under this Agreement. A copy of any such documentation must be made and provided to the other party within ten business days after the joint review of the roads

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Office of Oil AIGAS Department shall issue a Project Agreement or Project Permit, as appropriate, to

Company to use State Owned Roads and may include any minor or major improvement In 1 2015

MAR 25 1914 of Company prior to, during or after Project with the assignment of responsibilities of

both parties prior to, during and after the operator has completed well fracturing..

- In the Project Agreement/Project Permit, the Department shall not require the use IV. of State Owned Roads other than the roads proposed by Company unless the Department has safety concerns as to the Company's proposed roads. A failure to agree on roads that may otherwise be lawfully used for a particular Project Transportation Usage shall result in the designation of the State Owned Roads proposed by Company, with milepost determinations as designated by Department. This Agreement shall only cover portions of State Owned Roads designated on the Project Roads List.
- For the duration of Company's Project Transportation Usage of the Stated Owned Roads on the Project Roads List, whether by the Company, its contractors (while working on behalf of Company), agents, independent contractors or suppliers of drilling materials or drilling equipment, or employees, the Company agrees to pay for all reasonable maintenance and repair costs incurred by the Department to repair areas of the State Owned Roads included in the Project Roads List that were directly damaged by Company's Project Transportation Usage, as determined to be reasonably necessary and appropriate by the Department. The Department shall keep a record of all labor performed by Department employees and contractors for such maintenance and repairs and shall send an invoice for the same to Company.
- Company shall be responsible for the cost of all maintenance and repairs reasonably necessary to put the existing roadways, bridges and appurtenances on the Project Roads List utilized for the Project Transportation Usage in the condition that existed immediately prior to the Project Transportation Usage. Company shall not be required to pay for maintenance or repairs to put any areas of such roadways, bridges and appurtenances on the Project Roads List in a condition better than the condition that existed immediately prior to the Project Transportation Usage. Company shall also not be required to pay for maintenance or repairs to any areas of these roadways, bridges or appurtenances on the Project Roads List that are not actually utilized for the Project Transportation Usage or for damage not caused by Project Transportation Usage.
- Company shall notify the Department in writing of Company's final completion VII. of Project Transportation Usage for particular roadways, bridges and appurtenances on the Project Roads List. Within fourteen days after its receipt of written notification of the completion of the Project Transportation Usage for all roads on a Project Roads List, the Department will review the condition of the roadways, bridges and appurtenances on the Project Roads List actually utilized for the Project Transportation Usage and advise Company of any final repairs reasonably necessary to leave these roads, bridges and appurtenances in a condition reasonably deemed by Department to be equal to their condition prior to commencement of Project Transportation Usage; and, upon completion of all such final repairs by or on behalf of Company and acceptance by Department, the Company shall be released from all further liability for maintenance or repairs to roads, bridges, or appurtenances on said Project Roads List. Any maintenance or repair work under the Project Agreement/Project Permit for roads, bridges or appurtenances on the Project Roads List may be performed by a contractor directly chosen by the Company as approved by the Department, the Department's workforce, or a private contractor hired by the Department through the public bid process in accordance with state law, all of which work shall be subject to the standards and specifications of the Department.
- In order to ensure performance of Company's performance and payment obligations under this Bonding Agreement, the Company shall post a corporate surety bond, hereinafter called "Master Bond", with the Department named as the beneficiary, which form of bond shall be subject to the consent of the Department, not to be unreasonably withheld. The amount and form of the bond shall be in accordance with the Policy as set forth above. However, the amount of the Master Bond does not limit the amount of claims that may be made by the Department against the Company under this Bonding Agreement. The Company shall provide the Master Bond to the Department within one (1) month after the execution of this Bonding Agreement. The Master Bond shall secure the good faith performance of all payment obligations of Company under the terms of this Bonding Agreement respecting the roads, order and appurtenances on the Project Roads List for each Project Transportation Usage under the by the Company, and shall remain in effect until termination of this Agreement.

  Offeny shall elved not be obligated for the project Roads, sureties, or other guarantees of performances of performa not be obligated Carlos of State Owned Roads, except as required in this Agreement.

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- IX. Company shall maintain Commercial General Liability Insurance in the amount of two million dollars, with a minimum coverage of one million dollars per occurrence, for personal injury or death to persons, or for property damage, resulting from Company's Project Transportation Usage and shall present evidence of such insurance to Department upon request.
- X. Company's usage of State Owned Roads under the Project Agreement/Project Permit shall comply with all applicable Federal, State and local laws and regulations including, but not limited to, to the extent applicable, the National Environmental Policy Act, Section 404 of the Clean Water Act, Section 106 of the National Historic Preservation Act, Rare, Threatened and Endangered Species Act, Section 401 Water Quality Certification, and hazardous waste requirements. Further, upon reasonable written request of Department, Company shall furnish Department with acceptable documentation of such compliance which is in the possession of the Company.
- XI. Company shall defend, indemnify and hold Department harmless from and against any and all losses, damage, and liability, and from all claims for damages on account of or by reason of bodily injury, including death, which may be sustained, or claimed to be sustained, by any person or persons, including employees of Department, and from and against any and all claims, losses or liabilities for damages to property, arising out of the negligent or willful acts or omissions of Company, its agents, independent contractors and suppliers of drilling materials or drilling equipment, employees and contractors, in the performance of all Project Transportation Usage activities undertaken pursuant to this Agreement (collectively, "claims"). The Company shall not be responsible to indemnify, defend or hold harmless Department for any claims caused by the negligent or willful acts or omissions of the Department or its agents, employees and contractors or third parties not performing work at the direction of Company or delivering drilling equipment or drilling materials, including water, for use by or for company.
- XII. If a provision of this Agreement is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the validity or enforceability of any other provision of this Agreement; or the validity or enforceability in other jurisdictions of that or any other provision of this Agreement.
- XIII. Department shall give Company a minimum of thirty days written notice of default under the terms of this Bonding Agreement and the opportunity to cure this default during such thirty-day period. If a default is not cured to the satisfaction of Department, or provision acceptable to Department is not made for a cure, Department may then elect to terminate this Bonding Agreement in whole or in part, and may in addition exercise its rights under the Master Bond or seek any other lawful relief available. Company may terminate this Bonding Agreement upon thirty days written notice to Department for any reason. In the event Company terminates this Agreement for any reason, it shall be liable for the repair and maintenance costs set forth above for prior Project Transportation Usage.
- XIV. Nothing herein shall be construed to mean that Company shall have any jurisdiction or control over any public roads in the state road system.
- XV. Company, its contractors, agents, employees and suppliers shall at all times be subject to applicable provisions of state and federal law, including without limitation laws requiring operation of vehicles in accordance with legal size and weight restrictions and posted weight limits. Oversize/overweight permits for vehicle or loads not otherwise conforming with law must be obtained in accordance with law; Department agrees to work in good faith with Company to review and grant (where authorized by law) such permits in a timely manner upon request by Company.
- XVI. This Bonding Agreement shall be construed and enforced in accordance with the laws of the State of West Virginia, as they may be amended.

This Bonding Agreement shall be binding upon the successors and assigned fived

Office of Oil & Gas

MAR 25 2015

This Bonding Agreement shall be binding upon the successors and assigned fived

Office of Oil & Gas

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IN WITNESS WHEREOF, the parties hereto have caused this Bonding Agreement to be executed by their duly authorized officers effective as of the date first above written.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS

Witness

y: //ann

Manu (1. Bil

Title: Vice President – WV Operations

(To be executed in duplicate)

APPROVED AS TO FORM THIS DAY OF MM. 20/2

ATTORNEY LEGAL DIVISION WEST VIRGINIA DEPARTMENT OF HIGHWAYS

Office of rown mar 25 2015

Received Office of Oil & Gas MAR 1 1 2015