

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 20, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4700394, 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

Chief

Operator's Well No: 10955

Farm Name: ALAWEST, INC.

API Well Number: 47-4700394

Permit Type: Plugging Date Issued: 05/20/2014

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date		, 20	
2) Operator	's	7 7 -	
Well No.	10955		
3) API Well	No. 47- 04	7 - 00394	

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

	APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas _X _/ Liquid	d injection / Waste disposal /
-,		derground storage) Deep/ Shallow_x_
5)	Location: Elevation 2205 ft.	Watershed Left Fork of Crane Creek
	District Sandy River 6	County McDowell A Quadrangle Davy, WV
6)	Well Operator CNX Gas Company LLC	7) Designated Agent_Jeremy Jones
	Address 2481 John Nash Blvd	Address One Dominion Drive
	Bluefield, WV 24701	Jane Lew, WV 26378
8)	Oil and Gas Inspector to be notified Name Gary Kennedy	9) Plugging Contractor Name L&D Well Services
	Address PO Box 268	Address PO Box 1192
	Nimitz, WV 25978	Vansant, VA 24656
		Received
		Received
		APR - 3017
Noti wor	fication must be given to the district of can commence.	APR - 1007
wor)	fication must be given to the district of can commence.	WV Dept. of Environment Protection

ELEU. 22051

API 47-47-00394 Plugging Procedure

- 1. Verify total depth 4855'.
- Run free-point survey on 4-1/2" casing.
- Run tubing to TD. Set plug of expanding cement from established TD to approximately 50' below free point, utilizing a 100' gel spacer at approximately the half-way point of the wellbore.
- Cut 4-1/2" casing at free-point.
- Cement through 4-1/2" csg. while pulling 4-1/2", from top of bottom plug to approximately 100' below the 8-5/8" casing shoe. (Approx. 1993') Pull remaining 4-1/2" out of well.
- 6. Run free-point survey on 8-5/8" casing.
- Run tubing to previous cement top (1993'). Cement across the 8-5/8" shoe to a
 minimum of 50' above shoe, bringing cement top to approximately 50' below the 8-5/8"
 free-point or to surface, whichever is necessary.
- 8. If necessary, cut and pull free 8-5/8" casing.
- 9. Repeat free-point and cutting procedures for 11-3/4" if 8-5/8" is cut and pulled.
- 10. Cement from 50' below 11-3/4" shoe to surface.

11. Install 7" X 4' steel monument with API# and Date.

LYPANDING CEMENT CAN BE USED FROM A POINT 100' BELOW COPL PROTECTION CASING.

NOTE: A 100' gel spacer will be placed at approximately half the well depth. Also, Expanding cement will be utilized throughout the entire cementing process.

Received

CLASS A CEMENT PLUG MUST BE A MINIMUM OF 100'. IT MUST HAVE NO MORE THAN 30 CaClapp - 2014

> Office of Oil and Gas WV Dept. of Environmental Protection

WELL BORR MUST BE FILLED WITH CELL SPACERS BETWEEN ALL CEMENT PLUGS

GEL DEFINITION - FRESH WATER WITH AT LEAST 6% BENTONITE BY WEIGHT. 3/24/14

gre in

185/8" CASING IS COME STRING)

05/23/2014

STATE OF WES	TVIR	DINIA
DEPARTMENT	OF	MINES
OIL AND GAS	DIVI	SION 7

4704 Spudder	70	0	3	9	40
Cable Tools					
Storage		2			

Quadrangie WELCH W.C.

MCd-394 Permit No.

WELL RECORD

Oll or Ga	Well Gas	
	OSINO	
Laft in Well	Packer	

Company Consolidated Gas Supply Corporation Address Clarksburg, W. Va.	Coating and Tubing	Used in Drilling	Left in Well	Pacicam
Farm Olga Coal Company Acres 184.9	Size			
Location (waters)	16			Kind of Packer
Well No. 10955 Elev 22051	13	28	00	
Limit Sandy River County McDowell	76x 11-3/4"		28	Size of
The surface of tract is owned in fee by	81/4	1893	1893	
Address.	654			Depth set ' 15
Mineral rights are owned by	5 3/16			
Address	41/2	4848	4848	
Drilling commenced 11-8-67	3			Perf. top
Drilling completed 11-19-67	2			Perf. bottom
Date Shot Not shot From To	Liners Used			Perf. top
With	Name and the second			Perf. bottom
Open Flow /10ths Water in	Attach copy of cer	menting record	8-5/8"	rith 40 bags
/10ths Merc. inInch				No. Pt. Date
Volume 267 M Natural Cu Ft	Amount of cemen	t used (bine)	han with	60 hage
Rock Pressure 885 Ibs. 214 brs.	Name of Service			00 0000
Oil None bble 1et 24 her	MAY WAS BUY		101	26
	TO WAS EN	OCH I BRED	706	FEET 36 INCHES
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WELL FRACTURED (DETAILS). 11-29-67 RESULT AFTER TREATMENT (Initial open Flow or bbls.). Test ROCK PRESSURE AFTER TREATMENT 895#	after frac 2	,157 M	The second secon	FEET 24 INCHES
WELL FRACTURED (DETAILS) 11-29-67	after frac 2	,157 M	The second secon	FEET 24 INCHES

			Depth 4735-4783				
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Shale & Sand			135	191	Water	145'	
OAL			191	194	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-45	
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and & Shale			1500	1530	100 July 100	CKC ACACIO	Received Plice of Oil and Gas of Environmental Projection 05/23/2014
and			1530	1625			03/23/2014
hale			1625	1700			
			1700	1735	1	1	

Sand Shale Ravencliff Sa Avis Lime Shale Red Rock Shale Red Rock Shale Maxton Sand Shale Sand Sand & Shale Sand Shale LITTLE LIME Shale RIG LIME INJUN SAND WEIR SAND Shale Rlack Shale Silt Stone RERRA SAND Shale Total Dep	,	m Kelly Busi	2270 2345 2440 2515 2515 2515 2515 2615 3160 3190 3275 3140 3570 4075 4130 4735 4783 4783 4783	2345 2440 2505 2515 2550 2515 2615 2825 3136 3190 3275 3340 3570 4075 4130 4700 4718 4735 4783 4855 ground leve	Cas	Berea	
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				-		Office of En	of Oil and Gas vironmental Protection
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Date January 9, 1968

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WW-4A Revised 6-07

1) Date:		
2) Operator's Well Numb	er	
	10955	
3) API Well No.: 47 -	047 -	00394

STATE OF WEST VIDGINIA

 Surface Ow (a) Name 	ner(s) to be served: Alawest, Inc.	(5) (a)	Coal Operator Name	
Address	PO Box 920		Address	none
Address	Welch, WV 24801		Address	-
(b) Name	Troisin TTT 2 1001		(b) Coal Ov	vner(s) with Declaration
Address	-		Name	Alawest, Inc.
			Address	PO Box 920
				Welch, WV 24801
(c) Name			Name	
Address		-7	Address	

3) Inspector	Gary Kennedy	1/	(c) Coal Les	ssee with Declaration
Address	PO Box 268		Name	none
	Nimitz, WV 25978		Address	
Telephone	304-382-8402			
(1) The well (2) The reason	RSONS NAMED A application to Plug and Aban- its and the plugging work ord plat (surveyor's map) showing	don a Well on Form er; and the well location or that you have rights n	wW-4B, which	sets out the parties involved in the work and describes

Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

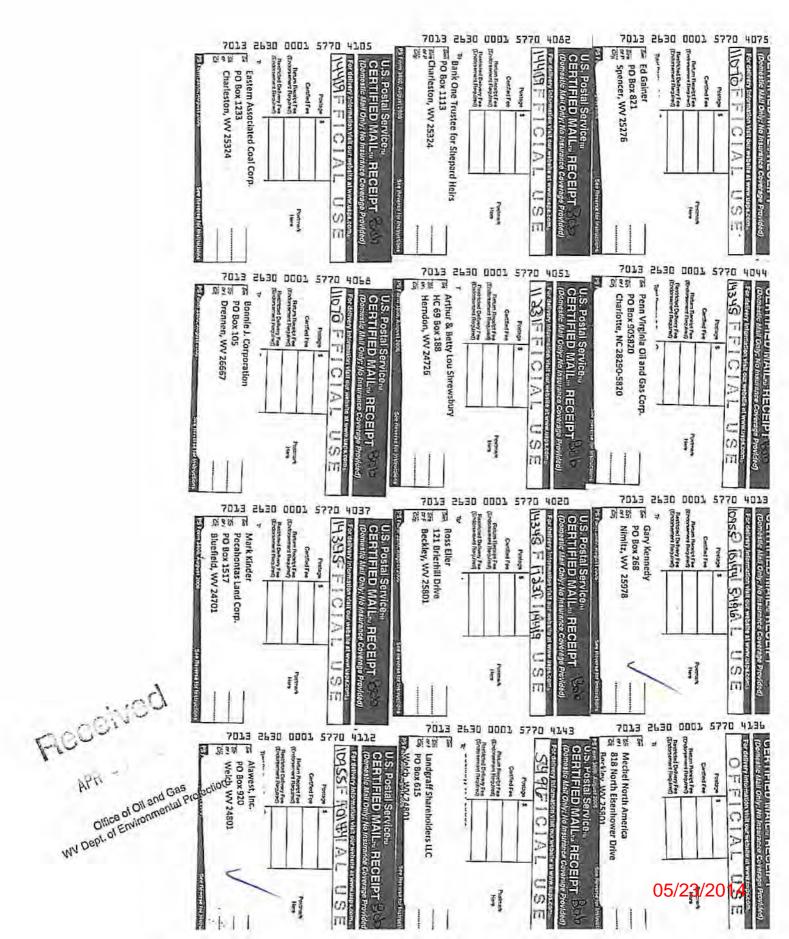
Well Operator CNX Gas Company LLC

By:

	Address	2481 John Nash Blvd		SING	0
		Bluefield, WV 24701		1000	
	Telephone	304-32-6568	1	10	Mr.
Subscribed and sworn before me	this 1th	day of Ope	Notary Public	MEBB 14 of Environ	and Gas annental Profection
My Commission Expires	(e/2	w/15	BEVERLY A.	WEBB of of Shi	
Dil and Gas Privacy Notice	your personal infor	mation, such as nam	Commonwealth of Reg. #7502. My Commission Expires	of Virginia	

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.

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WW-9 Rev. 5/08

P	age		of	
API Number 47 -	047	-	00394	
Operator's Well No.	10955			

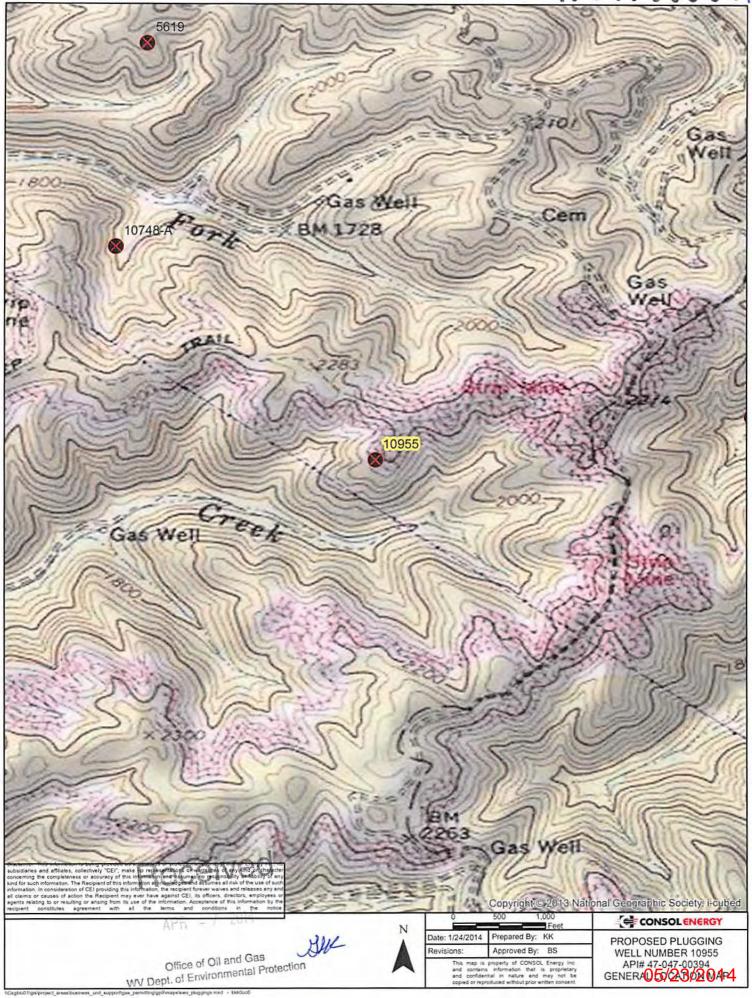
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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

	e CNX Gas Com	Daily LLO		OP Code49	4458U46
Watershed Left Fork of Crane Creek		Quadrangle Davy, WV			
Elevation	2205 ft.	County_	McDowell	District_ S	andy River
Description of	fanticipated Pit Waste:	water for	plugging of abande		
Will a synthet	ic liner be used in the p	it? _N/A	She	No	PIT WASTE
Proposed Disp	oosal Method For Treate				
	Land Appl		200	EE0240	
		Company of the compan	JIC Permit Number 2D0	550319)
		API Number	. C WIN A C I'm	I teartest)
			y form WW-9 for dispos	ai location)	
	Other (Ex	piain			
Proposed Wor	k For Which Pit Will B	te Used:			
Toposed Wor	Drilling	C Dacu.	Swab	bing	
	Workover		Plugg		
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Operator's Well No. 10955

		LEGEND	
Property Boundary		Diversion (1.11/11/11/11/11	and the state of t
Road = = = = =	=====	Spring O	
Existing Fence — X —	- × — × —	Wet Spot	
Planned Fence /	-/-/-	Drain Pipe with size in inches	— ® —
Stream		Waterway C+ C+	\Leftrightarrow \longleftrightarrow
Open Ditch		→ Cross Drain	
Rock ESSES	-	Artificial Filter Strip XXXX	XXXXXXXXXXXXX
North N		Pit: cut walls	will
Buildings		Pit: compacted fill walls	Trunch.
Water wells		Area for Land Application of Pi	Waste
Drill site 💮		<u>@F3</u>	
Proposed Revegetation Treatm	ent: Acres Disturbed	2.0 Prevegetation pH	6.5
	Tons/acre or to correct to	7.0	
	EEO	pn	
Fertilizer (10-20-20 o	r equivalent)	lbs/acre (500 lbs minimum)	
Mulch 2	To	ns/acre	
		Seed Mixtures	
Area	I	Area	a II
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard grass	25	same as Area I	
Birdsfoot trefoil	15		
Lidino clover	10	+	
Attach: Drawing(s) of road, location,pi Photocopied section of involve		application.	
Plan Approved by:	They Keverly		
Comments:			Received
Title: Inspector		Date: 3/28/14	A⊞F - ∀ _/014
Field Reviewed?	> Yes () No	Office of Oil and Gas
			WV Dept. of Environmental Protection



WW-7 8-30-06



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

API:_	47-047-	00394	WELL NO.: 10	955		
FARM	NAME: C	lga Coal Minin				
RESPO	NSIBLE PART	TY NAME: CNX	Gas Company L	LC		
COUN	MACE	2 10 10 10 10 10 10 10 10 10 10 10 10 10	DISTRICT: Sand			
QUADI	RANGLE:	Davy, WV				
SURFA	CE OWNER:	Alawest, Inc.				
		Alawest, Inc.			511	
		_{G:} 4,139,330 m				
		435,521 m		689 m	2205	FT.
preparin above we the follo 1. 2. 3.	g a new well loc ell. The Office of wing requirement Datum: NAD height above: Accuracy to I Data Collection	ation plat for a plugging f Oil and Gas will not acts: 1983, Zone: 17 North, C mean sea level (MSL) – Datum – 3.05 meters		umber on the t do not meet		
Li Li		Real-Time Differen				
Mapp	oing Grade GPS	: Post Processed D				
4.	I attav niva an	Real-Time Diffe		1400		
the und	ersigned, hereby	certify this data is corre	nap showing the well located to the best of my know aw and the regulations iss	ledge and		
Signature	Kos	- Prod.	Loord 4	21/14 /Date		



627 Claypool Hill Mall Road Cedar Bluff, VA 24609

Bob Staton, MS, PG Permitting Agent phone: 276-596-5137

April 4, 2014

Ms. Kay Holtsclaw WVDEP Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304-2345

RE: Plugging Applications

047-00178 109-01382 047-01417 109-02750 067-00701 047-00394

005-02008

Dear Ms. Hankins;

CNX Gas Co. LLC hereby submits the enclosed plugging applications for several wells. Please let me know if you need any additional information.

Sincerely,

Bob Staton

Permitting Agent

enclosures

Received

Min Debre of Statestrates will be recipion Order of Carsun Gas Office of Oil and Gas