

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

February 23, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1900570, 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: 2

Farm Name: WILSON, JEAN ANN

API Well Number: 47-1900570 Permit Type: Plugging

Date Issued: 02/23/2015

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.

WW-4B Rev. 2/01

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NOV 25 2014

1)Date		,	20	
2)Operator	's			
Well No.	Wils	son 2		
3)API Well	No.	47- 019	- 00570	

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

OFFICE OF	OIL AND GAS
APPLICATION FOR A PER	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) Jacobian Blountian 990 ft	Watershed Kanawha
5) Location: Elevation 990 ft. District Valley	County Fayette Quadrangle Gauley Bridge
District	Quadrangre
6) Well Operator CNX Gas Company LLC	7) Designated Agent Matthew Imrich
Address 627 Claypool Hill Mall Road	Address One Dominion Drive
Cedar Bluff, VA 24609	Jane Lew, WV 26378
	O) Plugging Control to
8) Oil and Gas Inspector to be notified Name Terry Urban	Name L&D Well Services
Address PO Box 1207	Address PO Box 1192
Clendenin, WV 25045	Vansant, VA 24656
see attached work order procedures	205
ork can commence.	il and gas inspector 24 hours before permitted
Work order approved by inspector Municipal) llln

API 47-019-00570 Plugging Procedure

Wilson 2

- 1. Verify total depth 2736'.
- 2. Run free-point survey on 4-1/2" casing.
- Run tubing to TD. Set plug of Class A 3% CaCl cement from established TD to
 approximately 50' below free point, utilizing a 100' gel spacer at approximately the halfway 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. 1324') Pull remaining 4-1/2" out of well.
- Run free-point survey on 8-5/8" casing.
- 7. Run tubing to previous cement top (1324'). 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.

Will Change prog. When plugging

- 8. If necessary, cut and pull free 8-5/8" casing.
- 9. Repeat free-point and cutting procedures for 16" if 8-5/8" is cut and pulled.
- Cement from 50' below 16" shoe to surface.
- 11. Install 4-1/2" X 4' steel monument with API# and Date.

NOTE: A 100' gel spacer will be placed at approximately half the well depth.

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11-13-14

L IT.

IV-35 (Rev 8-81)



DEC 19 1955 State of Mest Hirginia Well No.

DIVISION OF DIL & GAS
DEPARTMENT OF ENERGY Department of Mines

Gil und Gas Bivision

API No. 47

Date December 17, 1985
Operator's
Well No. S-589

Farm Jean Ann Wilson #2

API No. 47 - 019 - 0570

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / G (If "Gas,")	PICHUCLION	/ Underg	rou	nd Storag	re/ Dee	ul/ sp/ Sh	allow/)
LOCATION: Elevation:					100000000000000000000000000000000000000		
District: V	alley	_County_Ka	naw	ha	Quadrangl	e Gaule	y Bridge
						0-12-11-11-	
COMPANY C-+++ 0/2 c			_				
COMPANY Scott Oil Comp	any						
ADDRESS P. O. Box 112.				Casing	Used in	Left	Cement
DESIGNATED AGENT Darrel				Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS P. O. Box 112,				Size			
SURFACE OWNER Jean Ann W	ilson			20-16 Cond.	. 30,		Į
ADDRESS Gauley Bridge	, WV			13-:10"			· ·
MINERAL RIGHTS OWNER	Same as ab	ove	1	9 5/8			
ADDRESS_			1	8 5/8		1004	
OIL AND GAS INSPECTOR FO			Ì	7		1224	to surface
Dillon ADDRESS	Sophia, W	<u>/</u>	t	5 1/2			
PERMIT ISSUED 10/	11/85		1	4 1/2		2736	200 -1
DRILLING COMMENCED 10	/31/85		ı	3		2/30	200 sks
DRILLING COMPLETED 11	/9/85		f	2		-	
IF APPLICABLE: PLUGGING CONTINUOUS PROGRESSION FO REWORKING. VERBAL PERMIS ON	ROM DRITLET	NG OR	,	Liners used			
GEOLOGICAL TARGET FORMAT	ION (Youdan.	-				
Depth of completed v	well 2776	foot	P-		Dept	<u> </u>	feet
Water strata denth.	Frech	Teet	KO	tary	_/ Cable	Tools	
Water strata depth: Coal seam depths:	00-403. 776	1-780	S	art	feet	• • •	
OPEN FLOW DATA			- '	rs coar b	ernd mruec	in the	area?no
A CALLES AND A CAL	Con	dan		920			
Producing formation	700	uon		Pay	zone depti	1	feet
Gas: Initial open for	1102	MCI/d	O	il: Init	ial open f	low	BbI/d
Final open flo	m 102	MCI/d	3	Fina	l-open flo	W .	Bb1/d
Static rock pressure		etween init					
		psig(surfac	æ n	neasurene	nt) after	72 hour	s shut in
(If applicable due t			إإ	S	è.	100	
Second producing for					one depth		feet
Gas: Initial open f					ial.open f		Bbl/d
Final open flo					l open flo		Bb1/d
		etween init				hou	rs
Static rock pressure		sig(surface	me	easurement) after_	hour	s shut in
	40				(Continu	e on rev	erse side)

Received Office of Oil & Gas NOV 25 2014 DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Gordon

Gordon .

Perfs

2562-2658

Sand 80/100 50 sks 20/40 150 sks 270 bb1 н₂0

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
Sand & Shale Coal Sand & Shale Sand Coal Sand Sand Sand & Shale Sand Sand & Shale Sand Red Rock & Shale Sand Shale Sand Little Lime Shale Big Lime Red Rock Red Rock Red Rock Red Rock Sand Shale Sand Sand Shale Sand Sand Sand Sand Sand Sand Sand Sand	0 400 403 575 776 780 884 945 969 1113 1245 1270 1521 1529 1557 1568 1610 1650 1899 1950 1983 2034 2145 2355 2417 2590 2630	400 403 575 776 780 884 945 969 1113 1245 1270 1521 1521 1557 1568 1610 1650 1899 1950 1983 2034 2145 2356 2417 2690 2630 2770	an sait water, coar, off and
Gamma Ray Łog Maxton L. Maxton Little Lime Big Lime Injun Pocono Weir Berea	1278 1510 1554 1650 1885 1913 2062 2354	1328 1543 1612 1883 1913 1959 2082 2400	

(Attach separate sheets as necessary)

2628

Welli Operator | |

By:____

2595

December 17, 1985

Received of Oil & Gas V 25 2014 Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including invit, encountered in the drilling of a well."

WW-4A Revised 6-07

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NOV 25 2014

1) Date:		
2) Operator's Wel	1 Number	
	Wilson 2	

3) API Well No.: 47 -

019 00570

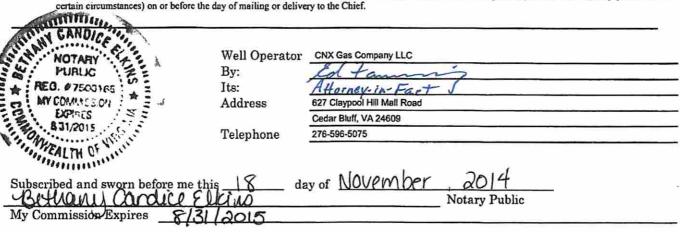
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

 Surface Ow (a) Name 	ner(s) to be served: Jean Ann Wilson	5) (a) Coal Operat Name	or
Address	109 Grace Street	Address	MILE
2.22	Fayetteville, WV 25840-1409		
(b) Name		(b) Coal C	Owner(s) with Declaration
Address		Name	same
		Address	same
(c) Name		Name	
Address		Address	
3) Inspector	Terry Urban	(c) Coal L	essee with Declaration
Address	PO Box 1207	Name	
	Clendenin, WV 25045	Address	
Telephone	304-549-5915		

- (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
- 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.



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.





WW-9 Rev. 5/08

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NOV 25 2014

I	Page		of	
API Number 47 -	019		00570	
Operator's Well No	. Wils	on 2		

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

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

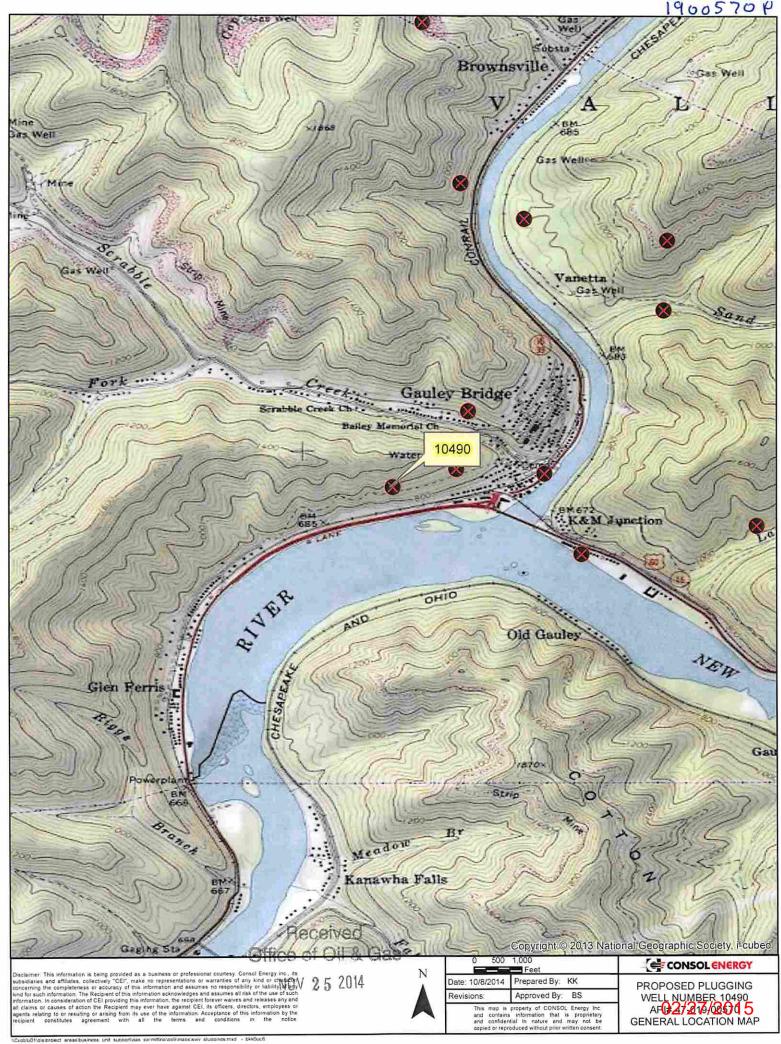
Operator Na	ame_ CNX Gas C	ompany LLC	OP Code	494458046
Watershed_	Kanawha River		QuadrangleGauley Br	
Elevation _	990 ft.	County_ Fayette	District_	Valley
Description	of anticipated Pit Wa	ste: water for plugging will b	e contained in a flowback t	ank and properly disposed.
Will a synth	etic liner be used in the	he pit? N/A		
Proposed Di	sposal Method For T	reated Pit Wastes:		
	Land A			
	X Underg	ground Injection (UIC Permit N	umber_ 2D0550319)
	Reuse	(at API Number		
		e Dispposal (Supply form WW-		
	Other	(Explain		
Proposed Wa	ork For Which Pit Wi	ill Re Used:		
Lioposcu W	Drilling		Swabbing	
	Worko		Plugging	
	X Other	(Explain a pumper truck with flow		of a pit.
aw or regula I ce application fobtaining the cenalties for secondary Offi	tion can lead to enfor rtify under penalty of form and all attachm is information, I belie submitting false infor- ficial Signature	recement action. of law that I have personally expents thereto and that, based of every that the information is true, remation, including the possibility	camined and am familiar with my inquiry of those indition, accurate, and complete. It of fine or imprisonment.	th the information submitted on viduals immediately responsible am aware that there are signific
Company Off	ficial TitleSup	pervisor Fermitting	callo accept	
Subscribed ar	nd sworn before me t	his 8 day of	vember, 2	0 14 O HL7)
Bethou	ry Cardic	e Elkino	Notor	y Public \$102/10 \$10
My commissi	on expires 8131	12015		DOUGH.

Form WW-9

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Operator's Well No. Wilson 2

NOV 25 2014	LEGEND
Property Boundary	Diversion 44:4444: 14 14 14 14 14 14 14 14 14 14 14 14 14
Road = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches (2)
Stream	Waterway \longleftrightarrow
Open Ditch	Cross Drain
Rock 655 655	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed 1.5	Prevegetation pH 6.5
Limebased on pH Tons/acre or to correct to pH	
550	acre (500 lbs minimum)
Mulch 2 Tons/ac	ere
Seed	Mixtures
Area I Seed Type lbs/acre	Area II Seed Type lbs/acre
Orchard grass 25	same as Area I
Birdsfoot trefoil 15	
Lidino clover 10	
Attach:	
Drawing(s) of road, location,pit and proposed area for land appli	ication.
Photocopied section of involved 7.5' topographic sheet.	
1	
Plan Approved by: Augustus	
Plan Approved by:	
Comments:	· · · · · · · · · · · · · · · · · · ·
Title: Input Ole (es)	Date: 11 - 13 14
Field Reviewed? (/) Yes () No



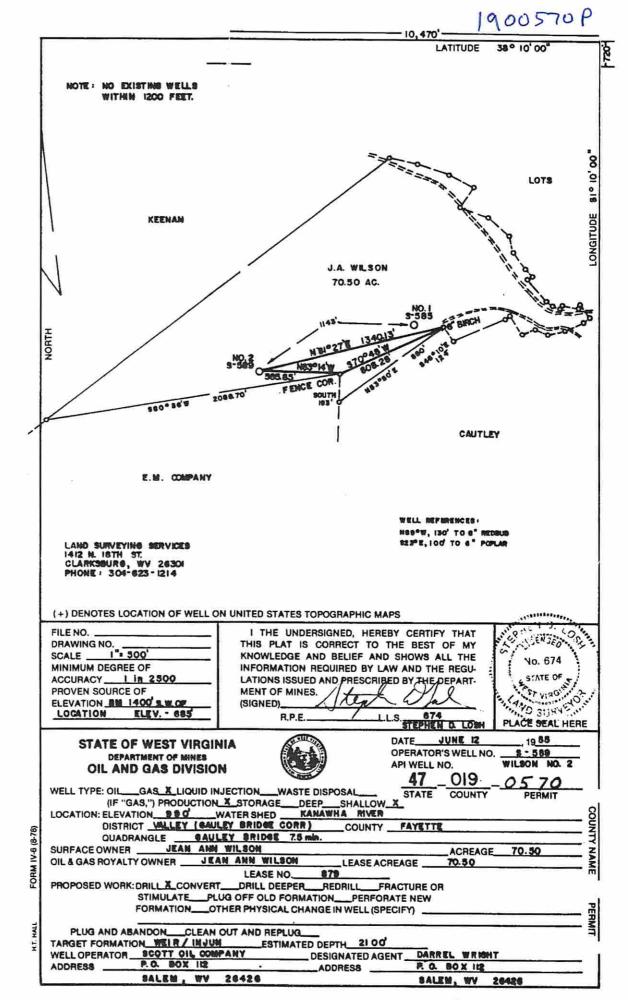
WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	OCATION FORM: GP:	S
API: 47-019-00570	WELL NO.:	Wilson 2
FARM NAME: Jean Ann	ı Wilson	
RESPONSIBLE PARTY NAME		y LLC
COUNTY: Fayette	DISTRICT:	alley _a
QUADRANGLE: Gauley		
SURFACE OWNER: Jean A	Ann Wilson	
ROYALTY OWNER: Jean		
UTM GPS NORTHING: 482,	,237.52 m	
UTM GPS EASTING: 4,224	,121.41 m GPS ELEVA	TION: 293 m (961,0 FT)
The Responsible Party named above preparing a new well location plat of above well. The Office of Oil and Office following requirements: 1. Datum: NAD 1983, Zorn height above mean sea located above mean se	for a plugging permit or assigned Gas will not accept GPS coording ne: 17 North, Coordinate Units: n level (MSL) – meters. 05 meters	API number on the ates that do not meet
	Time Differential X	
	st Processed Differential	
Re	eal-Time Differential	
I the undersigned, hereby certify the belief and shows all the information prescribed by the Office of Oil and	n required by law and the regulat Gas.	y knowledge and tions issued and
But Haton Signature	Permit agent	11-24-14 Date
~	2 2 70 N N	

02/27/2015



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