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**west virginia** department of environmental protection

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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: 47-1900569, 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 penalties 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: 1  
Farm Name: WILSON, JEAN ANN  
**API Well Number: 47-1900569**  
**Permit Type: Plugging**  
Date Issued: 02/23/2015

**Promoting a healthy environment.**

**02/27/2015**

## 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. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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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.

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_/ Gas x/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production x or Underground storage \_\_\_\_ ) Deep \_\_\_\_/ Shallow x

5) Location: Elevation 937 ft. Watershed Kanawha  
District Valley County Fayette Quadrangle Gauley Bridge

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

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Terry Urban Name L&D Well Services  
Address PO Box 1207 Address PO Box 1192  
Clendenin, WV 25045 Vansant, VA 24656

10) Work Order: The work order for the manner of plugging this well is as follows:  
**see attached work order procedures**

*See prog*

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *[Signature]* Date 11-13-14

API 47-019-00569 Plugging Procedure

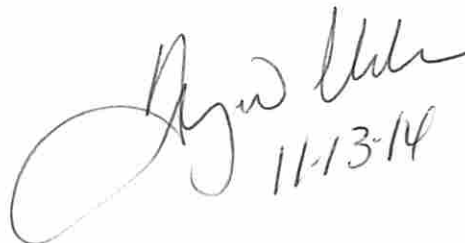
Wilson 1

1. Verify total depth 2004'.
2. Run free-point survey on 4-1/2" casing.
3. 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 half-way point of the wellbore.
4. Cut 4-1/2" casing at free-point.
5. 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. 1374') Pull remaining 4-1/2" out of well.
6. Run free-point survey on 8-5/8" casing.
7. Run tubing to previous cement top (1374'). 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 16" if 8-5/8" is cut and pulled.
10. 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.

IF 8 5/8" IS CEMENTED TO SURFACE (VERIFIED), THEN 8 5/8" DOES NOT NEED TO BE PULLED.  
Will change prog

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1900569P



IV-35  
(Rev 8-81)

Date April 4, 1986  
Operator's Well No. S-585  
Farm Jean Ann Wilson #1  
API No. 47 - 019 - 0569

State of West Virginia  
Department of Mines  
Oil and Gas Division

WELL OPERATOR'S REPORT  
OF

Revised IV-35

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas," Production  / Underground Storage  / Deep  / Shallow )

LOCATION: Elevation: 937 Watershed Kanawha River  
District: Valley County Fayette Quadrangle Gauley Bridge

COMPANY Scott Oil Company  
ADDRESS P. O. Box 112, Salem, WV 26426  
DESIGNATED AGENT Darrel Wright  
ADDRESS P. O. Box 112, Salem, WV 26426  
SURFACE OWNER Jean Ann Wilson  
ADDRESS Gauley Bridge, WV 25085  
MINERAL RIGHTS OWNER Same as above  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Rodney Dillon ADDRESS Sophia, WV  
PERMIT ISSUED 10/11/85  
DRILLING COMMENCED 10/21/85  
DRILLING COMPLETED 10/30/85  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	30'		
13-10"			
9 5/8			
8 5/8		1274	to surface
7			
5 1/2			
4 1/2		2004	160 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION \_\_\_\_\_ Depth \_\_\_\_\_ feet  
Depth of completed well 2740 feet Rotary  / Cable Tools   
Water strata depth: Fresh 110 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area?

OPEN FLOW DATA  
Producing formation Gordon, Pocono, Injun Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 179 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 700 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
(Continue on reverse side)

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Gordon	2566-2590	Sand 20/40	350 sks	348 bbl H <sub>2</sub> O
Pocono	1914-1926	20/40	500 sks	450 bbl
		80/100	100 sks	
Injun	1889-1891	20/40	300 sks	350 bbl
		80/100	50 sks	

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all f and salt water, coal, oil and
Sand & Shale			0	350	
Coal			350	353	
Sand & Shale			353	1085	
Sand			1085	1175	
Sand & Shale			1175	1263	
Sand			1263	1291	
Shale			1291	1347	
Sand			1347	1370	
Shale			1370	1482	
Sand			1482	1505	
Shale			1505	1522	
Little Lime			1522	1570	
Sand & Shale			1570	1610	
Big Lime			1610	1871	
Sand & Shale			1871	1900	
Shale			1900	1928	
Sand			1928	2030	
Sand & Shale			2030	2740	
Gamma Ray Tops					
Little Lime			1256	1578	
Big Lime			1617	1862	
Injun			1864	1891	
Pocono			1891	1930	
Weir			1954	2062	
Berea			2325	2373	
Gordon			2565	2618	

(Attach separate sheets as necessary)

Scott Oil Company  
Well Operator  
By: Sam Q. Wright  
Date: 4/4/86

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 coal, encountered in the drilling of a well."

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WW-4A  
Revised 6-07

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1) Date: \_\_\_\_\_  
2) Operator's Well Number Wilson 1

3) API Well No.: 47 - 019 - 00569 P

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

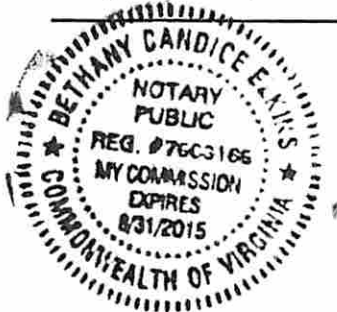
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Jean Ann Wilson</u>	Name _____
Address <u>109 Grace Street</u>	Address _____
<u>Fayetteville, WV 25840-1409</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>same</u>
_____	Address <u>same</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 1207</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</u>	_____

**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  
 By: Ed Fanning  
 Its: Attorney-in-Fact  
 Address 627 Claypool Hill Mall Road  
Cedar Bluff, VA 24609  
 Telephone 276-596-5075

Subscribed and sworn before me this 18 day of November, 2014  
Bethany Candice E. Kirk Notary Public  
 My Commission Expires 8/31/2015

**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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

02/27/2015

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7013 2250 0000 0805 1201  
 SPECIAL USE  
 Wilson 2 / 1

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

Postmark Here  
 MAY 2 2014

To: **Jean Ann Wilson**  
 109 Grace Street  
 Fayetteville, WV 25840-1409

PS See Reverse for Instructions

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 SPECIAL USE  
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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

Postmark Here  
 MAY 4 2014

To: **Terry Urban**  
 PO Box 1207  
 Clendenin, WV 25045

PS Form 3800, August 2006 See Reverse for Instructions



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WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 019 - 00569  
Operator's Well No. Wilson 1

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 Name CNX Gas Company LLC OP Code 494458046

Watershed Kanawha River Quadrangle Gauley Bridge, WV

Elevation 937 ft. County Fayette District Valley

Description of anticipated Pit Waste: water for plugging of well will be contained in flowback tank.

Will a synthetic liner be used in the pit? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 2D0550319 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain a pumper truck with flowback tank will be used in lieu of a pit.)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Ed Fanning

Company Official (Typed Name) Ed Fanning

Company Official Title Supervisor Permitting

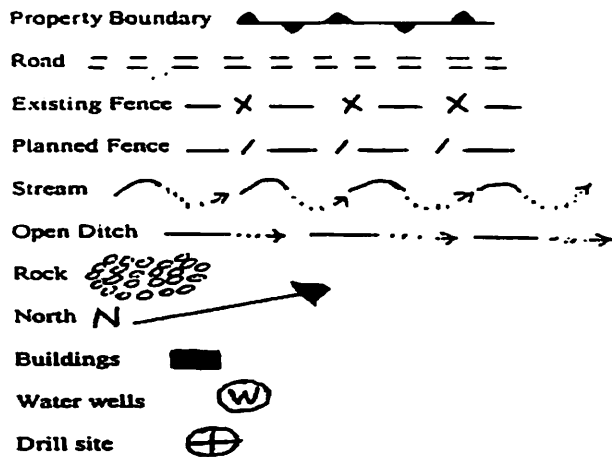
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Subscribed and sworn before me this 18 day of November, 2014

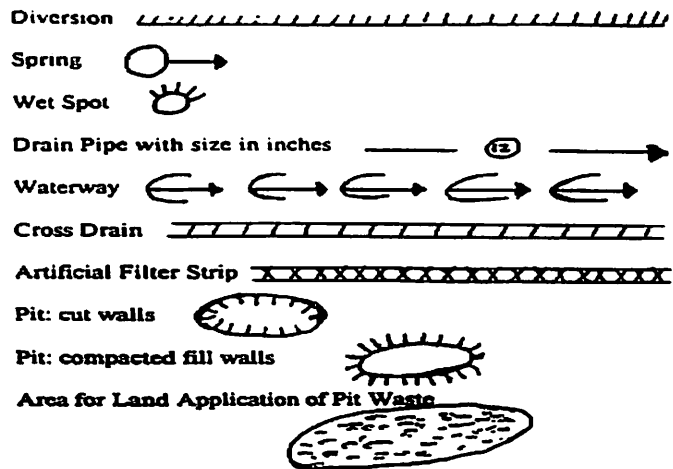
Bethany Candice Elkins Notary Public

My commission expires 8/31/15





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 6.5  
 Lime based on pH Tons/acre or to correct to pH 7.0  
 Fertilizer (10-20-20 or equivalent) 550 lbs/acre (500 lbs minimum)  
 Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II 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 application.

Photocopied section of involved 7.5' topographic sheet.

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Plan Approved by:

Title: Inspector Oil & Gas

Date: 11-13-14

Field Reviewed?  Yes  No







1900569P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-019-00569 WELL NO.: Wilson 1

FARM NAME: Jean Ann Wilson

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: Fayette DISTRICT: Valley 9

QUADRANGLE: Gauley Bridge, WV 36L

SURFACE OWNER: Jean Ann Wilson

ROYALTY OWNER: Jean Ann Wilson

UTM GPS NORTHING: ~~482,563.10 m~~ 4,224,228.18 m

UTM GPS EASTING: ~~4,224,228.18 m~~ 482,563.10 m GPS ELEVATION: 280 m (918 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential \_\_\_\_\_  
Real-Time Differential

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Bob Stetson  
Signature

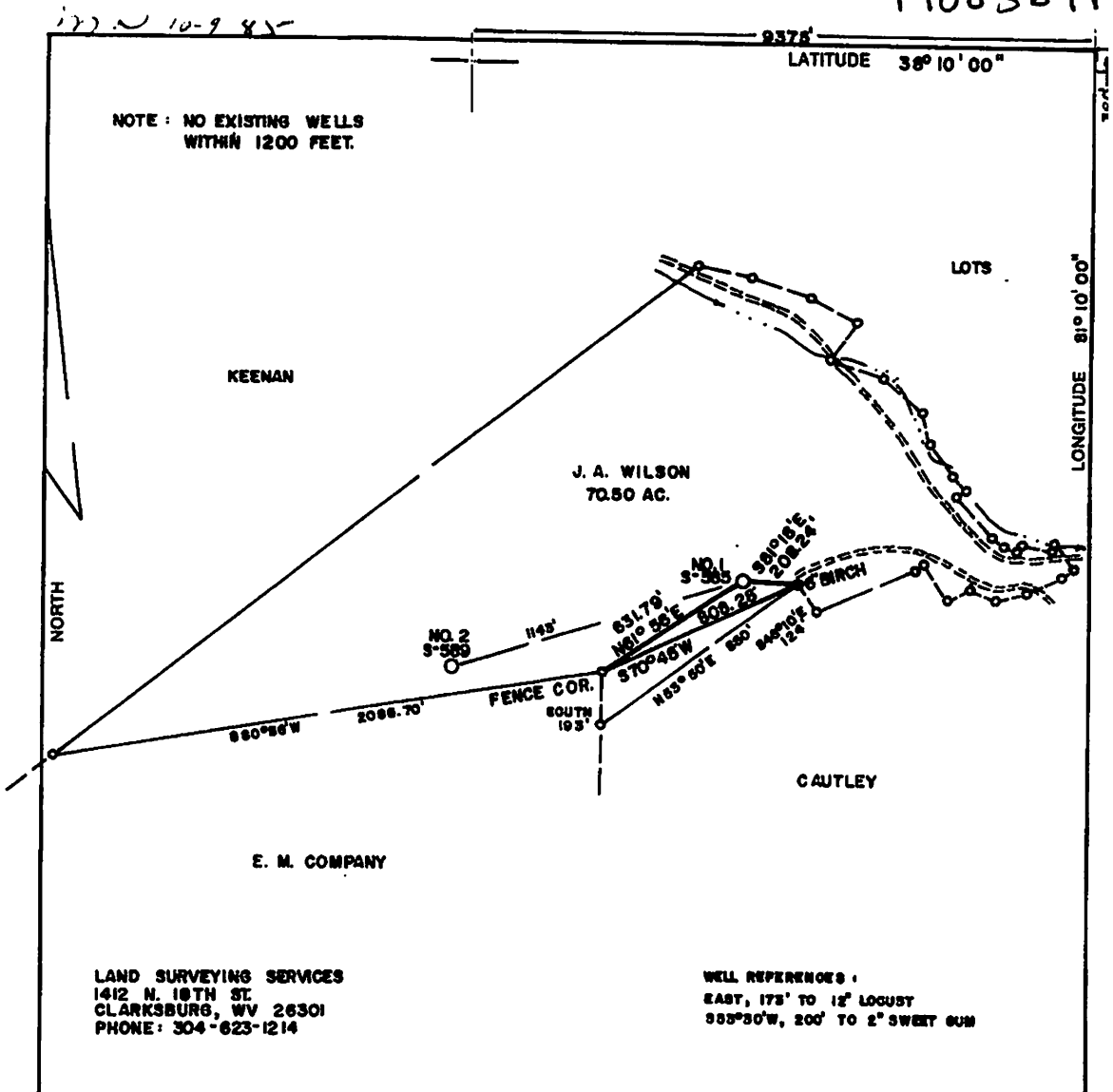
Permit Agent  
Title

11-24-14  
Date

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NOV 25 2014

02/27/2015

190656910



NOTE: NO EXISTING WELLS WITHIN 1200 FEET.

LAND SURVEYING SERVICES  
1412 N. 10TH ST.  
CLARKSBURG, WV 26301  
PHONE: 304-623-1214

WELL REFERENCES:  
EAST, 173' TO 12' LOGUST  
335°30'W, 200' TO 2' SWEET GUM

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 300'  
 MINIMUM DEGREE OF ACCURACY 1 in 2500  
 PROVEN SOURCE OF ELEVATION BM 2500' SW OF LOCATION ELEV. 885'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Stephen D. Losh  
 R.P.E. \_\_\_\_\_ L.L.S. 674  
STEPHEN D. LOSH



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**

DATE JUNE 12, 19 85  
 OPERATOR'S WELL NO. S-585  
 API WELL NO. 47-019-0569 WILSON NO. 1

WELL TYPE: OIL    GAS X LIQUID INJECTION    WASTE DISPOSAL     
 (IF "GAS,") PRODUCTION X STORAGE    DEEP    SHALLOW X

LOCATION: ELEVATION 937' WATERSHED KANAWHA RIVER  
 DISTRICT VALLEY (GAULEY BRIDGE CORP.) COUNTY FAYETTE  
 QUADRANGLE GAULEY BRIDGE 7.5 mb.

SURFACE OWNER JEAN ANN WILSON ACREAGE 70.50  
 OIL & GAS ROYALTY OWNER JEAN ANN WILSON LEASE ACREAGE 70.50  
 LEASE NO. 579

PROPOSED WORK: DRILL X CONVERT    DRILL DEEPER    REDRILL    FRACTURE OR  
 STIMULATE    PLUG OFF OLD FORMATION    PERFORATE NEW  
 FORMATION    OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON    CLEAN OUT AND REPLUG     
 TARGET FORMATION WEIR / INJUN ESTIMATED DEPTH 2100'  
 WELL OPERATOR SCOTT OIL COMPANY DESIGNATED AGENT DARREL WRIGHT  
 ADDRESS P. O. BOX 112 ADDRESS P. O. BOX 112  
SALEM, WV 26426 SALEM, WV 26426

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 Office of Oil & Gas  
 NOV 25 2014

02/27/2015

1900569P



627 Claypool Hill Mall Road  
Cedar Bluff, VA 24609

November 24, 2014

Mr. Jeff McLaughlin  
WVDEP Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345

**RE: API well # 47-019-00569, 47-019-00570**

Dear Jeff;

Please find enclosed the plugging applications for the above referenced wells.  
Thank you for your attention in this matter.

A handwritten signature in blue ink that reads 'Bob Staton'.

Bob Staton  
Permitting Agent

enclosures

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Office of Oil & Gas

NOV 25 2014

02/27/2015



IL  
now

Operator: CNX GAS COMPANY LLC  
API: 1900569  
WELL No: 1  
Reviewed by: gmm Date: 2/06/15  
05 Day End of Comment: 12/2/14

### CHECKLIST FOR FILING A PERMIT

#### Plugging

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee /Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

#### OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- ~~\$100.00~~ check (\$0.00 if no pit)