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

1900570 P

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.

1900570 P

WW-4B
Rev. 2/01

Received
Office of Oil & Gas
NOV 25 2014

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

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 990 ft. Watershed Kanawha
District Valley County Fayette Quadrangle Gauley Bridge

6) Well Operator CNX Gas Company LLC
Address 627 Claypool Hill Mall Road
Cedar Bluff, VA 24609

7) Designated Agent Matthew Imrich
Address One Dominion Drive
Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified
Name Terry Urban
Address PO Box 1207
Clendenin, WV 25045

9) Plugging Contractor
Name L&D Well Services
Address PO Box 1192
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 PROS

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

Work order approved by inspector _____ Date 11-13-14

1900570P

API 47-019-00570 Plugging Procedure

Wilson 2

1. Verify total depth 2736'.
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. 1324') 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 (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.
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.

Will Change prog. when plugging

11-13-14

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IF 8 5/8" IS CEMENTED TO SURFACE, THERE IS NO NEED TO PULL IT.
JMM

IV-35
(Rev 8-81)

RECEIVED
DEC 19 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

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 ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production x / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 990 Watershed Kanawha River
District: Valley County Kanawha 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
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 10/31/85
DRILLING COMPLETED 11/9/85
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		1224	to surface
7			
5 1/2			
4 1/2		2736	200 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth ___ feet
Depth of completed well 2778 feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh 111 feet; Salt ___ feet
Coal seam depths: 400-403, 776-780 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Gordon Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 1182 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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FAYE 0570

FORM IV-35
(REVERSE)

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

Gordon Perfs 2562-2658 Sand 80/100 50 sks 270 bbl H_2O
20/40 150 sks

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	0	400	
Coal	400	403	
Sand & Shale	403	575	
Sand	575	776	
Coal	776	780	
Sand	780	884	
Sand & Shale	884	945	
Sand	945	969	
Sand & Shale	969	1113	
Sand	1113	1245	
Red Rock & Shale	1245	1270	
Sand & Shale	1270	1521	
Sand	1521	1529	
Shale	1529	1557	
Sand	1557	1568	
Little Lime	1568	1610	
Shale	1610	1650	
Big Lime	1650	1899	
Red Rock	1899	1950	
Red Rock & Sand	1950	1983	
Shale	1983	2034	
Sand	2034	2145	
Sand & Shale	2145	2356	
Sand	2355	2417	
Sand & Shale	2417	2690	
Sand	2590	2630	
Sand & Shale	2630	2770	
Gamma Ray Log			
Maxton	1278	1328	
L. Maxton	1510	1543	
Little Lime	1554	1612	
Big Lime	1650	1883	
Injun	1885	1913	
Pocono	1913	1959	
Weir	2062	2082	
Berea	2354	2400	

(Attach separate sheets as necessary)

Gordon 2595 2628

Scott Oil Company
Well Operator

By: Daniel Wright

Date: December 17, 1985

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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of Oil & Gas
V 25 2014

1900570P

WW-4A
Revised 6-07

Received
Office of Oil & Gas
NOV 25 2014

1) Date:
2) Operator's Well 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

4) Surface Owner(s) to be served:
(a) Name: Jean Ann Wilson
Address: 109 Grace Street
Fayetteville, WV 25840-1409

(b) Name:
Address:

(c) Name:
Address:

6) Inspector: Terry Urban
Address: PO Box 1207
Clendenin, WV 25045
Telephone: 304-549-5915

5) (a) Coal Operator
Name:
Address:

(b) Coal Owner(s) with Declaration
Name: same
Address: same

Name:
Address:

(c) Coal Lessee with Declaration
Name:
Address:

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.

BETHANY CANDICE ELKINS NOTARY PUBLIC REG. #7503165 MY COMMISSION EXPIRES 8/31/2015 COMMONWEALTH OF VIRGINIA

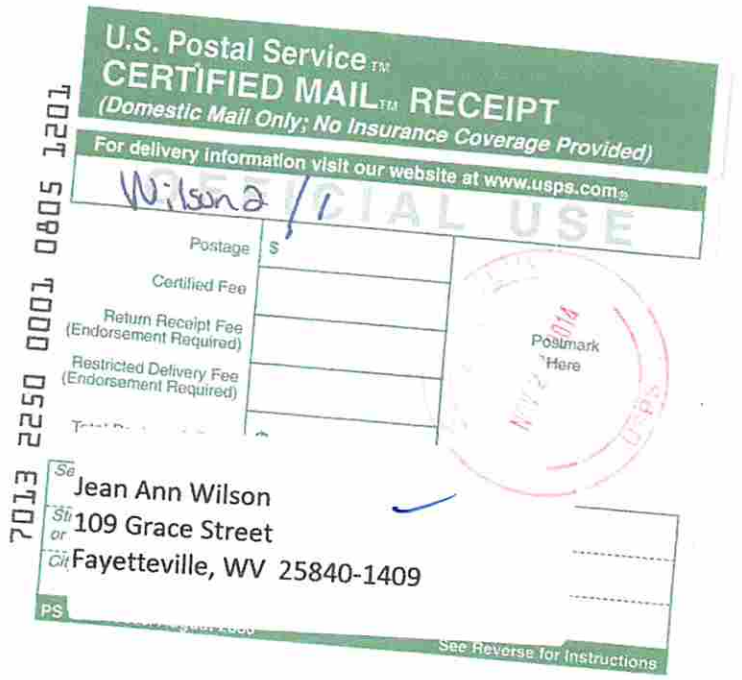
Well Operator: CNX Gas Company LLC
By: Ed Fanning
Its: Attorney-in-Fact
Address: 627 Claypool Hill Mall Road
Cedar Bluff, VA 24609
Telephone: 276-596-5075

Subscribed and sworn before me this 18 day of November, 2014
Bethany Candice Elkins 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 deprivacyoffier@wv.gov.

1900570P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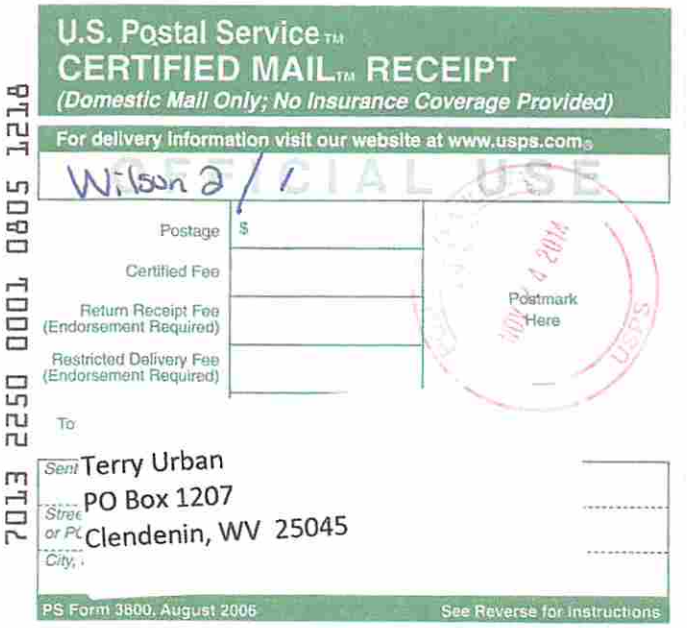
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Postmark Here
7013 2250 0001 0805 1201
Jean Ann Wilson
109 Grace Street
Fayetteville, WV 25840-1409
See Reverse for Instructions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OFFICIAL USE
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Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Postmark Here
7013 2250 0001 0805 1218
Terry Urban
PO Box 1207
Clendenin, WV 25045
PS Form 3800, August 2006
See Reverse for Instructions

1900570P

WW-9
Rev. 5/08

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NOV 25 2014

Page _____ of _____
API Number 47 - 019 - 00570
Operator's Well No. Wilson 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 Name CNX Gas Company LLC OP Code 494458046

Watershed Kanawha River Quadrangle Gauley Bridge, WV

Elevation 990 ft. County Fayette District Valley

Description of anticipated Pit Waste: water for plugging will be contained in a flowback tank and properly disposed.

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

Proposed Disposal Method For Treated Pit Wastes:

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

Proposed Work For Which Pit Will Be Used:

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

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

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

Bethany Candice Elkins Notory Public

My commission expires 8/31/2015

BETHANY CANDICE ELKINS
NOTARY PUBLIC
REG. #7603165
MY COMMISSION EXPIRES
8/31/2015
COMMONWEALTH OF VIRGINIA

1900570P

Form WW-9

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Operator's Well No. Wilson 2

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells W
Drill site

Diversion
Spring
Wet Spot
Drain Pipe with size in inches 12
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

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

Area I		Area 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,pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

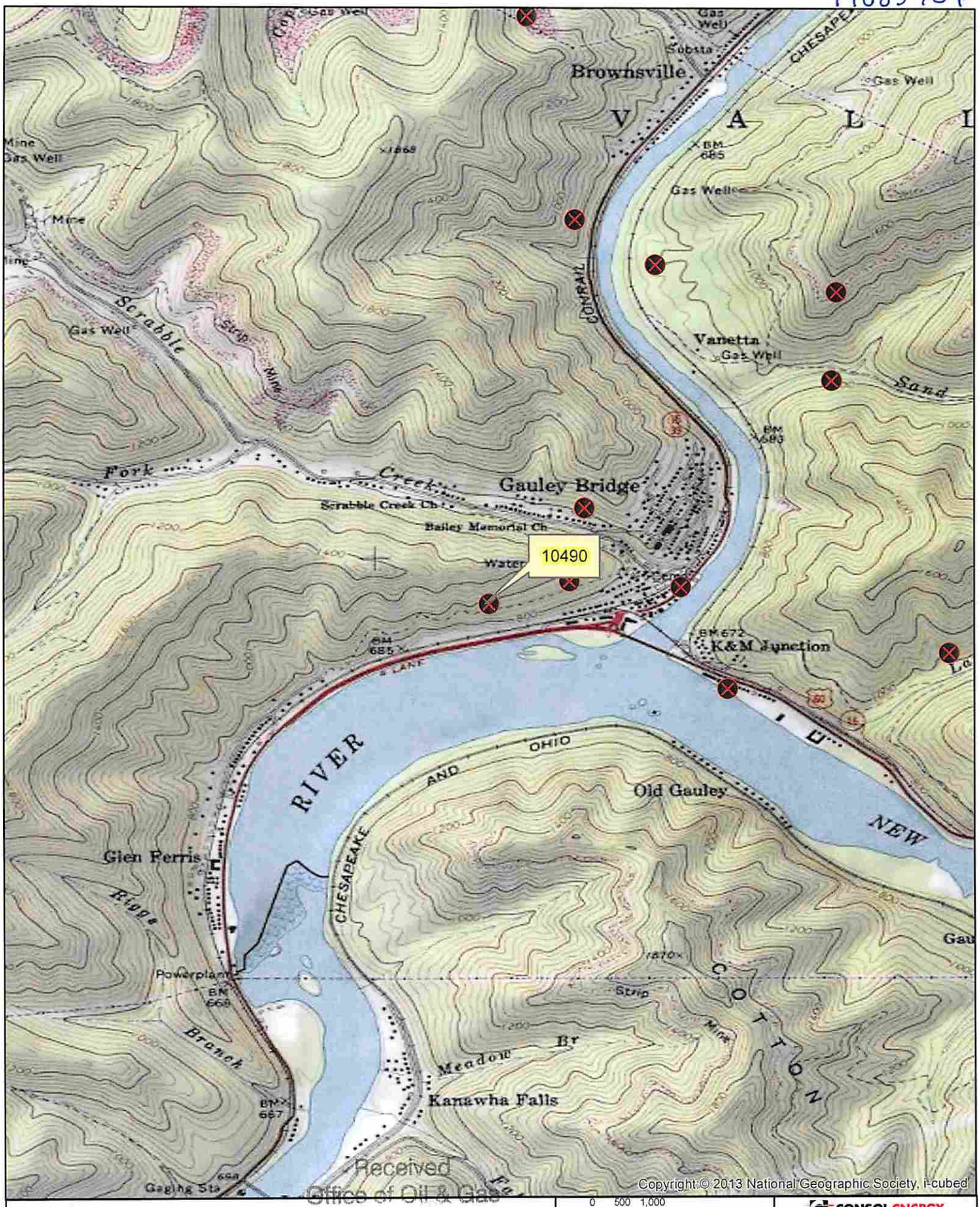
Plan Approved by:

Comments:

Title: Inspector Oil & Gas Date: 11-13-14

Field Reviewed? (✓) Yes ( ) No

1900570P



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N

0 500 1,000
Feet

Date: 10/8/2014	Prepared By: KK
Revisions:	Approved By: BS

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CONSOL ENERGY

PROPOSED PLUGGING
WELL NUMBER 10490
API# 47-019-00570
GENERAL LOCATION MAP

\\Cxsblu01\gis\project areas\business unit support\gas permitting\gis9\maps\wv plugging.mxd - bkk0uc6

1900570 P

WW-7
8-30-06

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

API: 47-019-00570 **WELL NO.:** Wilson 2

FARM NAME: Jean Ann Wilson

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: Fayette **DISTRICT:** Valley 9

QUADRANGLE: Gauley Bridge, WV 36 1

SURFACE OWNER: Jean Ann Wilson

ROYALTY OWNER: Jean Ann Wilson

UTM GPS NORTHING: 482,237.52 m

UTM GPS EASTING: 4,224,121.41 m **GPS ELEVATION:** 293 m (961.0 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 X : Post Processed Differential _____

Real-Time Differential X

Mapping Grade GPS ____: Post Processed Differential _____

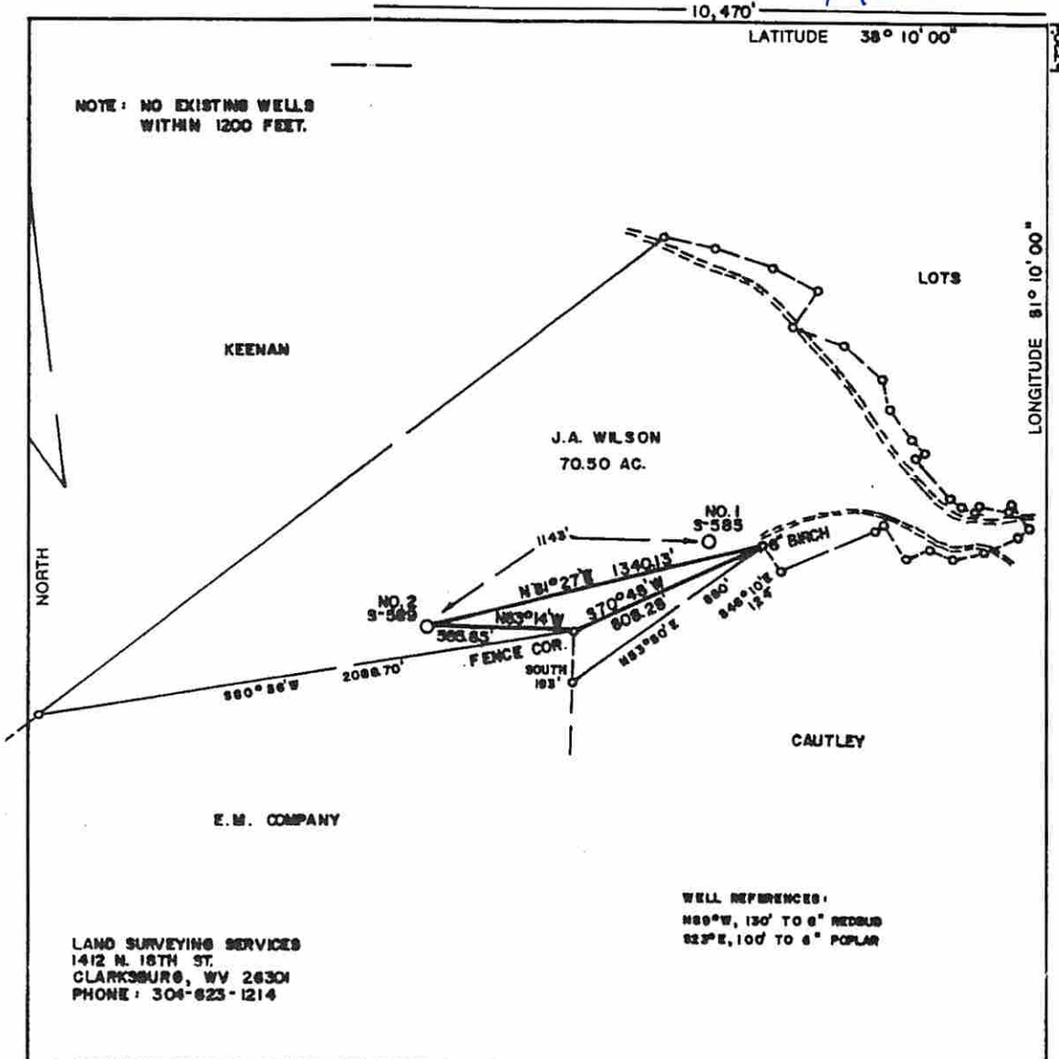
Real-Time Differential _____

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 Staton — Signature
Permit Agent — Title
11-24-14 — Date

1900570P



LAND SURVEYING SERVICES
1412 N. 18TH ST.
CLARKSBURG, WV 26301
PHONE: 304-623-1214

(+) 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 1400' S.W. OF LOCATION ELEV. = 685'

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) _____
R.P.E. _____ L.L.S. 674
STEPHEN D. LOSH

STEPHEN D. LOSH LICENSED No. 674 STATE OF WEST VIRGINIA LAND SURVEYOR
PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE JUNE 12, 1985
OPERATOR'S WELL NO. S-589
API WELL NO. WILSON NO. 2
47 - 019 - 0570
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 990' WATER SHED KANAWHA RIVER
DISTRICT VALLEY (GAULEY BRIDGE CORR) COUNTY FAYETTE
QUADRANGLE GAULEY BRIDGE 7.5 min.
SURFACE OWNER JEAN ANN WILSON ACREAGE 70.50
OIL & GAS ROYALTY OWNER JEAN ANN WILSON LEASE ACREAGE 70.50
LEASE NO. 879
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

FORM IV-6 (8-78)
H.T. HALL
COUNTY NAME
PERMIT

#2

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