



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

April 24, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10902750, 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: 14345
Farm Name: STEELE, JASON
API Well Number: 47-10902750
Permit Type: Plugging
Date Issued: 04/24/2014

Promoting a healthy environment.

04/25/2014

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.

1) Date _____, 20____
2) Operator's
Well No. 14345
3) API Well No. 47-109 - 02750

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 2303 ft. Watershed Lambert Branch
District Barkers Ridge 2 County Wyoming 10A Quadrangle Rhodell, WV 573

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 9) Plugging Contractor
Name Ross Eller Name L&D Well Services
Address 121 Brierhill Drive Address PO Box 1192
Beckley, WV 25801 Vansant, VA 24656

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

Received

APR -7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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 4/1/14

API 47-109-02750 Plugging Procedure

1. Verify total depth 4263'.
2. Run free-point survey on 4-1/2" casing. Drilling report states top of cement is 1650' per previous bond log.
3. 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.
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 7" casing shoe. (Approx. 996') Pull remaining 4-1/2" out of well.
6. Bond log 7" casing.
7. Run tubing to previous cement top (996'). Cement across the 7" shoe to a minimum of 50' above shoe, bringing cement top to approximately 50' below the 7" free-point or to surface, whichever is necessary.
8. If necessary, cut and pull free 7" casing.
9. Repeat bond log and cutting procedures for 9-5/8" if 7" is cut and pulled.
10. Cement from 50' below 9-5/8" shoe to surface.
11. Install 7" X 4' steel monument with API# and Date.

MAKE SURE CEMENT COVERS 2316- PAVZONES 2326
4030-4090'

PROBABLY TO SURFACE.

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.

ABOVE 2300'

Well Drilled in 2006: OR TO LEAVE 9 5/8" & 7" IF CTS.

7" IS LIKELY CTS, } WILL PROBABLY LEAVE
9 5/8" IS LIKELY CTS } 7" @ 9 5/8" IN FACT.

PULL 12 3/4" CONDUCTOR CASING.

Q W M

Received

APR - 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

MAKE SURE ALL COALS COVERED, WITH CEMENT.

04/25/2014

WR-35
Rev (5-01)

DATE: 12/21/2006
API #: 47 109 02750

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Blankenship, Gary & Jerry Operator Well No.: 14345 Revised

LOCATION: Elevation 2356' uadrangle: Rhodell 7.5'

District: Barkers Ridge County: Wyoming
Latitude: 12,700 Feet South of 37 Deg. 35 Min. 00 Sec.
Longitude 2,100 Feet West of 81 Deg. 20 Min. 00 Sec.

Company: Dominion Exploration & Production, Inc

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P O Box 1248 Jane Lew, WV 26378				
Agent: <u>Rodney J. Biggs</u>				
Inspector: <u>Barry Strollings</u>				
Date Permit Issued: <u>08/10/2006</u>				
Date Well Work Commenced: <u>11/28/2006</u>	<u>12 3/4"</u>	<u>20'</u>	<u>20'</u>	<u>Sand in</u>
Date Well Work Completed: <u>12/06/2006</u>				
Verbal Plugging <u>N/A</u>	<u>9 5/8"</u>	<u>265'</u>	<u>265'</u>	<u>115 sks</u>
Date Permission granted on: <u>N/A</u>				
Rotary X Cable Rlg	<u>7"</u>	<u>886'</u>	<u>886'</u>	<u>160 sks</u>
Total Depth (feet): <u>4262'</u>				
Fresh Water Depth (ft.): <u>N/A</u>	<u>4 1/2"</u>	<u>4226'</u>	<u>4226'</u>	<u>250 sks</u>
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>42-43', 92-93', 140-141', 330-331', 408-409', 449-451', 555-557', 590-592'</u>				

OPEN FLOW DATA

Weir 4030-4040'
Producing formation Maxton Pay zone depth (ft) 2316-2326'
Gas: Initial open flow Trace MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 919 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 650 psig (surface pressure) after 12 Hours

*Commingled

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Received

APR - 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014

WYOMING 275

Fill	0	2
Sandstone	2	42
Coal	42	43
Sandy Shale	43	92
Coal	92	93
Sandstone	93	140
Coal	140	141
Sandstone	141	330
Coal	330	331
Sandy Shale	331	408
Coal	408	409
Sandstone	409	449
Coal	449	451
Sandstone	451	555
Coal	555	557
Sandstone	557	590
Coal	590	592
Sandstone	592	

GAMMA RAY FORMATION TOPS				
DEP# 14345rov		04710902750		
			TOP	BASE
PRIDE SHALE			1410	1496
RAVENCLIFF SAND			1590	1672
AVIS LIME			1766	1811
UPPER MAXTON			2263	2522
MIDDLE MAXTON			2595	2620
LOWER MAXTON			2732	2800
LITTLE LIME			2898	3198
BIG LIME			3198	3744
PRICE FORMATION			3744	TD
WEIR SAND			4020	4088
LTD				4260

Received
 APR -7 2014
 Office of Oil and Gas
 WV Dept. of Environmental Protection

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number 14345
3) API Well No.: 47 - 109 - 02750

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>Jason Steele</u>	Name _____
Address <u>PO Box 134</u>	Address _____
<u>Mullens, WV 25882</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pocahontas Land Corporation Atten: Mark Kinder</u>
	Address <u>PO Box 1517</u>
	<u>Bluefield, WV 24701</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>ROSS ELLER</u>	(c) Coal Lessee with Declaration
Address <u>121 Brierhill Drive</u>	Name <u>Penn Virginia Oil and Gas Corp.</u>
<u>Beckley, WV 25801</u>	Address <u>PO Box 905820</u>
Telephone <u>304-932-6844</u>	<u>Charlotte, NC 28290-5820</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: [Signature]
 Its: Attorney-in-Fact
 Address 2481 John Nash Blvd
Bluefield, WV 24701
 Telephone 304-32-6568

Received

Subscribed and sworn before me this 4th day of April 2014
Beverly A. Webb
 My Commission Expires 6/30/15

Notary Public
 BEVERLY A. WEBB
 NOTARY PUBLIC
 Commonwealth of Virginia
 Reg. #7502381
 My Commission Expires June 30, 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.

09027507

7013 2630 0001 5770 4006

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To: Jason Steele
 P.O. Box 134
 Mullens, WV 25882

PS Form 3800, August 2006 See Reverse for Instructions

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To: Landgraff Realty
 PO Box 615
 Welch, WV 24801

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To: WPP, Inc.
 5260 Irwin Road
 Huntington, WV 25705-3247

PS Form 3800, August 2006 See Reverse for Instructions

Received

Official Government Mail
 WV Dept. of Economic Development
 04/25/2014

4710902750A

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To: Ed Gainer
PO Box 821
Spencer, WV 25276

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To: Bank One Trustee for Shepard Heirs
PO Box 1113
Charleston, WV 25324

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To: Eastern Associated Coal Corp.
PO Box 1233
Charleston, WV 25324

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To: Penn Virginia Oil and Gas Corp.
PO Box 905820
Charlotte, NC 28290-5820

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To: Arthur & Betty Lou Shrewsbury
HC 69 Box 188
Herndon, WV 24726

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To: Bonnie J. Corporation
PO Box 105
Drennen, WV 26667

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To: Gary Kennedy
PO Box 268
Nimitz, WV 25978

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To: Ross Eller
121 Brierhill Drive
Beckley, WV 25801

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To: Mark Kinder
Pocahontas Land Corp.
PO Box 1517
Bluefield, WV 24701

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To: Mechel North America
818 North Eisenhower Drive
Beckley, WV 25801

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To: Landgraf Shareholders LLC
PO Box 615
Welch, WV 24801

PS Form 3800, August 2005 See Reverse for Instructions

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To: Alawest, Inc.
PO Box 920
Welch, WV 24801

PS Form 3800, August 2005 See Reverse for Instructions

Received
APR 11 2006
Office of Environmental Protection
WV Dept. of Oil and Gas

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 109 - 02750
Operator's Well No. 14345

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 Lambert Branch Quadrangle Rhodell, WV

Elevation 2303 ft. County Wyoming District Barkers Ridge

Description of anticipated ~~Waste~~ Waste: water for plugging of abandoned gas well.

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

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 Attorney-in-Fact

Subscribed and sworn before me this 4th day of April, 20 14

Received

Beverly Webb

Notary Public

APR - 7 2014

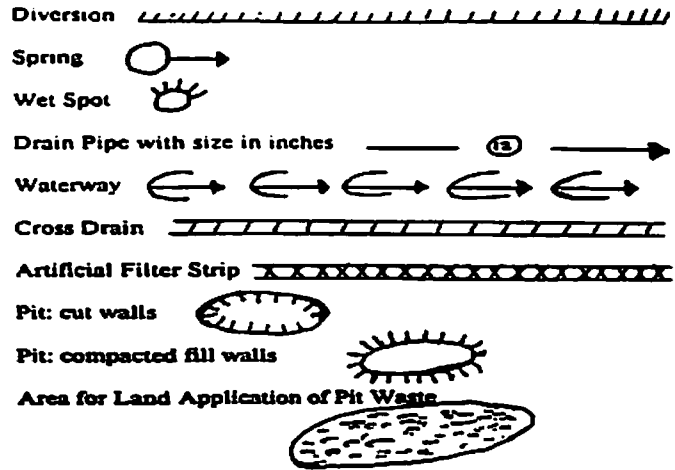
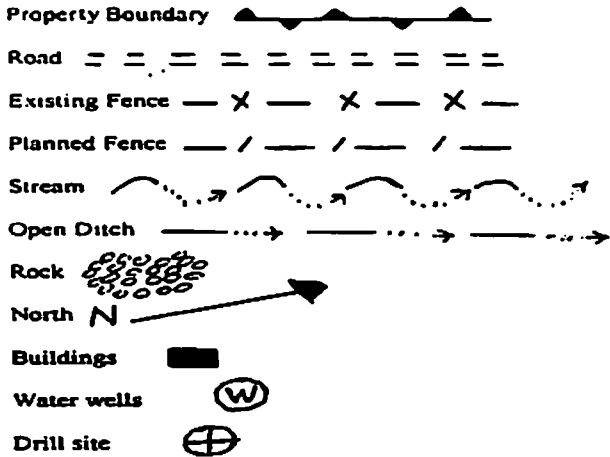
My commission expires 6/30/15

BEVERLY A. WEBB
NOTARY PUBLIC
Commonwealth of Virginia
Reg. #7502381
My Commission Expires June 30, 2015

Office of Oil and Gas
Department of Environmental Protection

04/25/2014

LEGEND



Proposed Revegetation Treatment: Acres Disturbed 2.0 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	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.

Plan Approved by:

Comments: _____

Received

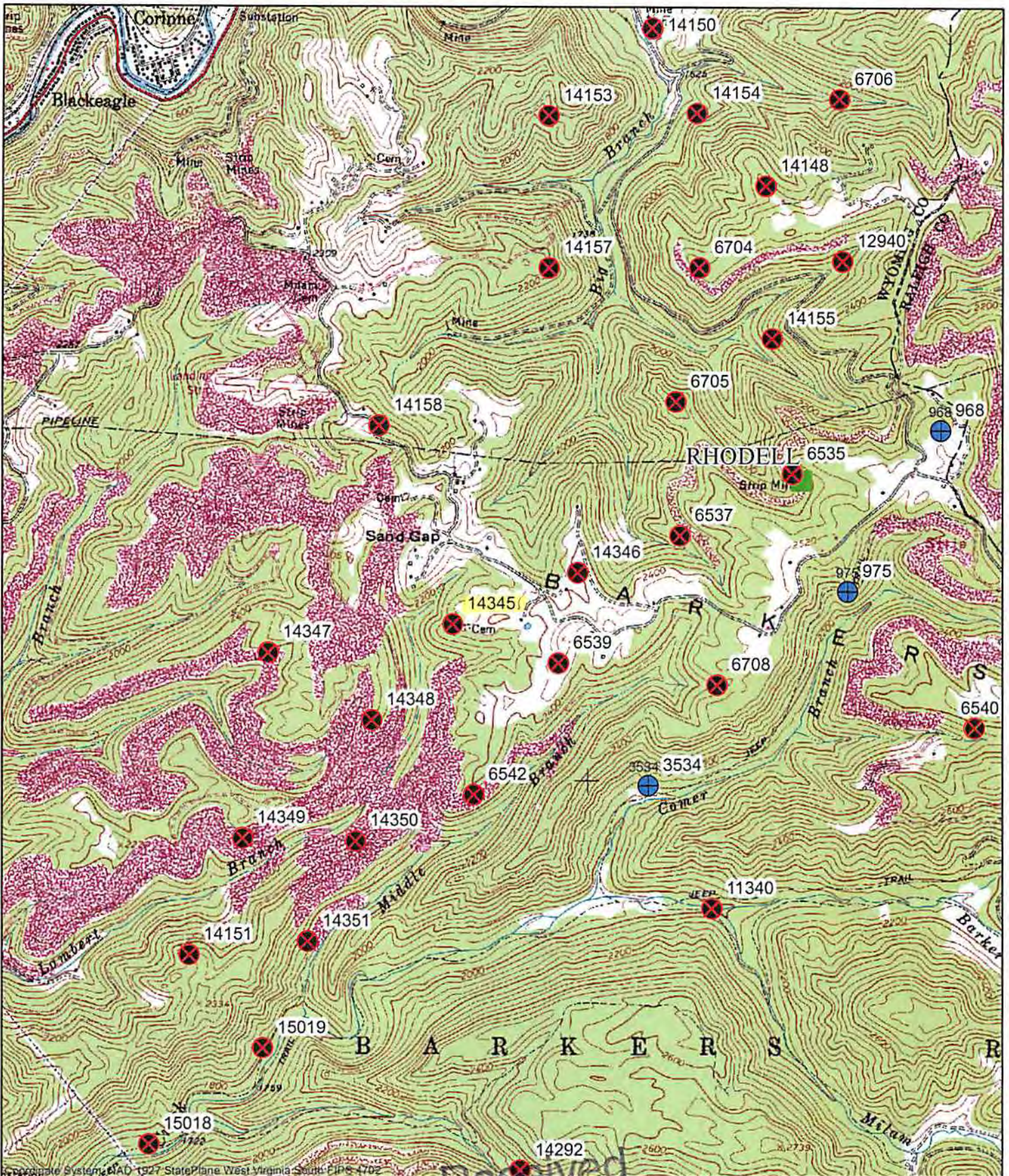
Title: WV DEP Inspector

Date: 4/11/14

APR - 7 2014

Field Reviewed? Yes No

Office of Oil and Gas
 WV Dept. of Environmental Protection
 04/25/2014



**PROPOSED PLUGGING
WELL NUMBER 14345
API# 47-109-02750
GENERAL LOCATION MAP**

Office of Oil and Gas
WV Dept. of Environmental Protection



2481 John Nash Blvd.
Bluefield, WV 24701

Orig. Date: 11/18/2013	Prepared By: KK
Rev. Date:	
Rev. Date:	Approved By: BS

1 inch = 2,000 feet
04/25/2014

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-109-02750 WELL NO.: 14345

FARM NAME: Blankenship

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: Wyoming DISTRICT: Barkers Ridge

QUADRANGLE: Rhodell

SURFACE OWNER: Steele, Jason

ROYALTY OWNER: Penn Va. Oil and Gas

UTM GPS NORTHING: 4,155,759.879 m

UTM GPS EASTING: 469,899.848 m GPS ELEVATION: 702 m 2303'

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

- 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.

Signature

Prod. Coord.
Title

4/2/14
Date

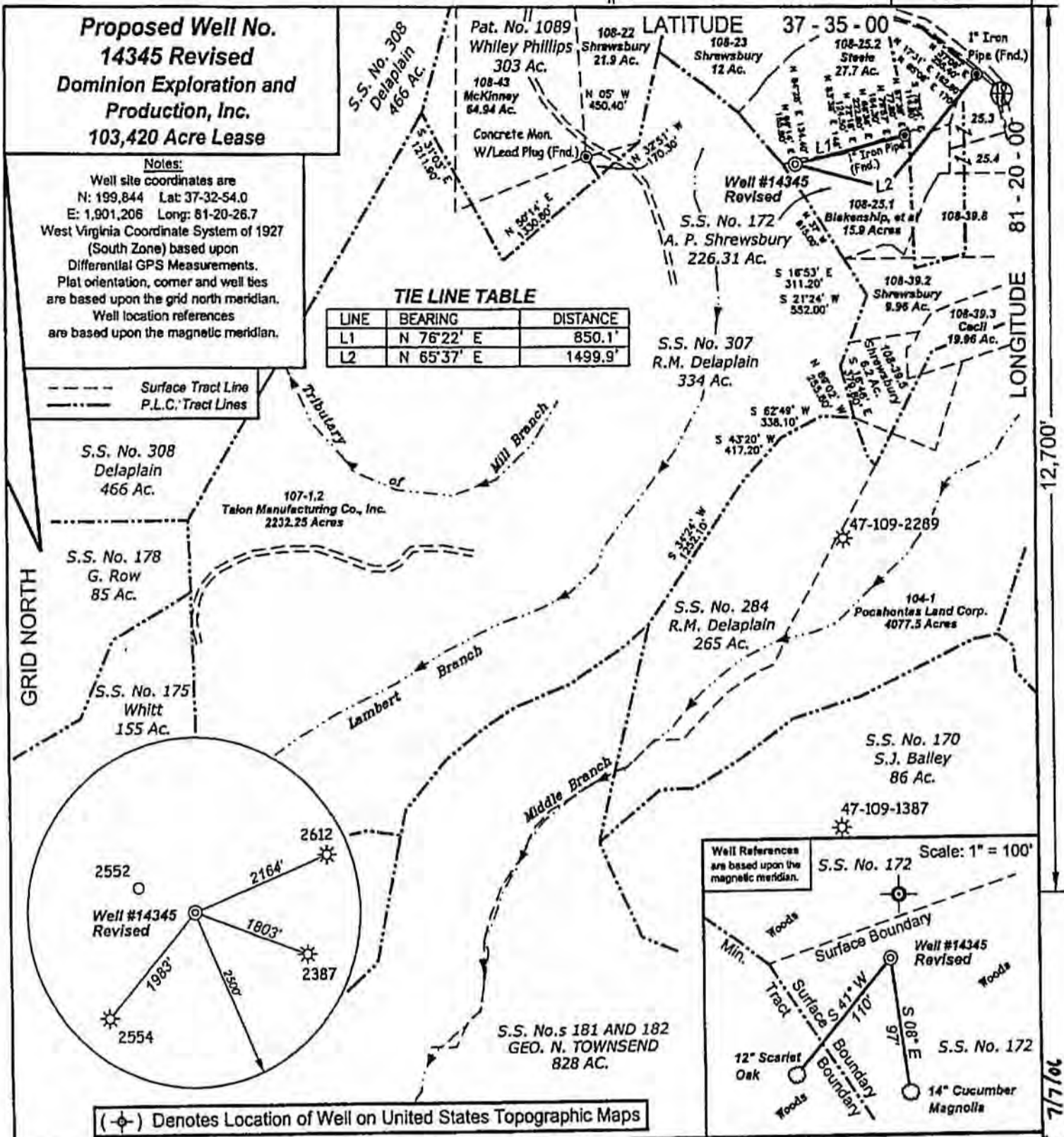
Received

API# = 14345

Office of Oil and Gas
WV Dept. of Environmental Protection

4710902750P

2,100'



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 Environmental Protection.

Jonathan N. White
 P.S. 2122



FILE NO: W-158-22-BR-04 (84-28)
 DRAWING NO: W15822BR04_14345rev.dwg
 SCALE: 1" = 1000' DOM PUD NO. 54399
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: DGPS Corrected against WDEP Base Station (Kanawha City)



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

DATE: May 6, 20 05
 Revised: June 16, 20 06
 OPERATOR'S WELL NO. 14345 Revised
 API WELL NO 47 - 109 - 02750
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 2356' WATERSHED Lambert Branch QUADRANGLE: Rhodell 7.5'

DISTRICT: Barkers Ridge COUNTY: Wyoming

SURFACE OWNER: Gary E. & Jerry P. Blakenship ACREAGE: 15.9

OIL AND GAS ROYALTY OWNER: Penn Virginia Oil & Gas Company LEASE NO: 79917 ACREAGE: 103,420

PROPOSED WORK: DRILL CONVERT DRILL DEEPER 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 ESTIMATED DEPTH: 4250

WELL OPERATOR: Dominion Exploration & Production, Inc. DESIGNATED AGENT: Gnr. Mrg. WV & Appalachian CBM - Rodney Biggs
 One Dominion Drive, P.O. Box 1248

04/25/2014

OK, Cal 71704
WV 0 2750



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	109-01382	047-00178
	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

APR -7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

04/25/2014