



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

July 06, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10901291, 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: WB-71 PLC 15
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-10901291
Permit Type: Plugging
Date Issued: 07/06/2015

Promoting a healthy environment.

07/10/2015

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

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. 13054
3) API Well No. 47-109-01291

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 1420 ft. Watershed Car Branch
District Center County Wyoming Quadrangle Pineville, WV

6) Well Operator CNX Gas Company LLC 7) Designated Agent Matthew Imrich
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 Gary Kennedy Name L&D Well Services
Address PO Box 268 Address PO Box 1192
Nimitz, WV 25978 Vansant, VA 24656

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

Received

MAY 18 2015

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 *Gary Kennedy* Date 5/12/15

API 47-109-01291 (13054/WB71) Plugging Procedure

<u>Item #</u>	<u>Responsible Party</u>	<u>Description</u>
1.	CNX	Verify total depth to 2262' (4 ½").
2.	Pinnacle	Run E-Log to consist of density, gamma ray, deviation, caliper, ccl to determine the location of the lowest minable coal and verify Pocahontas #3 Seam location (PMC depth shows at approximately 720' G.L.).
3.	CNX	Run Free Point Survey on 4 ½" casing.
4.	CNX	Run tubing to TD. Set Class A 3% CaCl cement plug from TD to at least 100' above the Ravencloft Formation perforations (1229'). Pump 100' of 6% gel spacer from 1229' to 1129'. Pump Class A 3% CaCl cement from top of Gel to approximately 300' below the P3 or the lowest minable coal seam (approx. 1020').
5.	CNX	Cut 4 ½" casing at approximately 735' or at free point and pull casing.
6.	Pinnacle	Washover 4 ½" casing to remove annular cement to a depth of 15' below the Pocahontas #3 coal seam (if necessary).
7.	Pinnacle	Cut 4 ½" casing 15' below the Pocahontas #3 coal seam and remove from well (if necessary).
8.	CNX	Run bond log on 7" casing to determine top of cement.
9.	Pinnacle	Section mill the 7" casing from 10' above the Pocahontas 3 Seam to 5' below the seam for a total of 20'.
★ 10.	Pinnacle	Perforate casing with one shot every 100' from 920' to 100'.
11.	CNX	Run tubing to previous gel top, and pump expanding cement from there to at least 100' above the Pocahontas #3 seam. Cement plug from previous top of gel to 620'.
12.	CNX	Pump Class A cement to surface. Class A Cement plug from 620' to 0'.

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Office of Oil and Gas
WV Dept. of Environmental Protection

07/10/2015

1993

13054 / WB 71

47-109-01291

37.541667
- 81.583333

DTD @ 2320'

13 3/8" @ 36'

9 5/8" @ 173' CTS

7" @ 861' CTS

4 1/2" @ 2262' 150SKS.

Ravencliff, Maxton 1856' - 2219'
1329' - 1384'

Estimated P3 per (David Trender Pmc.) 720'

<u>Item #</u>	<u>Responsible Party</u>	<u>Description</u>
13.	CNX	Install a 4'x4-1/2" monument with API# and Date.
14.	CNX	Reclaim site.
	Pinnacle	Note: If the 4-1/2" casing has an excessive amount of cement above the Pocahontas #3 seam, then an alternative method will be used instead of washing over the 4-1/2" casing. The 4-1/2" will be section milled from 10' above the Pocahontas #3 seam to 5' below the seam for a total of 20'. The 7" will then be perforated with 10 shots/foot for a total of 10' across the Pocahontas #3 seam.

Note: If the 4-1/2" casing has an excessive amount of cement above the Pocahontas #3 seam, then an alternative method will be used instead of washing over the 4-1/2" casing. The 4-1/2" will be section milled from 10' above the Pocahontas #3 seam to 5' below the seam for a total of 20'. The 7" will then be perforated with 10 shots/foot for a total of 10' across the Pocahontas #3 seam.

[Signature]

★ NOTE:

9 5/8" SET AT 173'. IT APPEARS YOU ARE GOING TO PERFORATE THROUGH THE 7" CASING UP TO 100'. THIS SUGGESTS YOU ARE GOING TO PERFORATE THROUGH THE 7" & 9 5/8" COMBINED @ A DEPTH OF 100'. THE OFFICE OF OIL & GAS WOULD NOT REQUIRE THE PERFORATION @ 100' AS THE 7" & 9 5/8" ARE CEMENTED TO SURFACE.

ywm

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Office of Oil and Gas
WV Dept. of Environmental Protection

10901291A

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MAY 18 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

RECEIVED
WV Division of
Environmental Protection

WR-35

JAN 23 1995

Permitting
Office of Oil & Gas

API #: 47-109-01291

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: POCAHONTAS LAND Operator Well Number: 15 B-71
Elevation: 1420 Quadrangle: PINEVILLE
District: CENTER County: WYOMING
Latitude: 3000 Feet South of 37 Deg. 32 Min. 30.00 Sec.
Longitude: 100 Feet West of 81 Deg. 35 Min. 0.00 Sec.

Company: BOWIE
P.O. Drawer 1430
Clarksburg, WV 26302-1430

Agent: William H. Bowie

Inspector: Rodney G. Dillon
Permit Issued: 11/25/92
Well Work Commenced: 12/29/92
Well Work Completed: 1/5/93

Verbal Plugging
Permission granted on:
Rotary: Cable: Rig
Total Depth (feet): 2320
Fresh Water Depths (ft): 130

Salt Water Depths (ft): N/A

Casing and Tubing	Used in Drilling	Left in Well	Cement Fill Up in SKS
13 3/8	36	--	--
9 5/8	173	173	CTS
7	861	861	CTS
4 1/2"	2262	2262	150

Is Coal Being Mined in the Area? (Y/N) No
Coal Depths (ft) 126-29, 161-63, 272-76, 385-89, 525-29, 554-58, 653-60

OPEN FLOW DAT

Producing formation RAVENCLIFF, MAXTON Pay zone depth (ft) 1856' - 2219'
Gas: Initial open flow 103 MCF/day Oil: Initial open flow: N/A BBL/day
Final open flow: 1247 MCF/day Final open flow: N/A BBL/day
Time of open flow between initial and final tests 24 Hours
Static Rock Pressure 300 psig (surface pressure) after 72 Hours

Producing formation Pay zone depth (ft) 1329' - 1384'
Gas: Initial open flow MCF/day Oil: Initial open flow: BBL/day
Final open flow: MCF/day Final open flow: BBL/day
Time of open flow between initial and final tests Hours
Static Rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELBORE.

For: BOWIE

By:

Date:

Cleve Bowie
1-18-95

07/10/2015

Stage 1 Frac: (1856-2219) 18 HOLES, 750 GAL 15% HCL, 500 SKS SAND, 640 BBL 75Q FOAM
 Stage 2 Frac: (1329-1384) 20 HOLES, 750 GAL 15% HCL, 450 SKS SAND, 680 BBL 75Q N2 FOAM
 Stage 3 Frac:
 Stage 4 Frac:
 Stage 6 Frac:

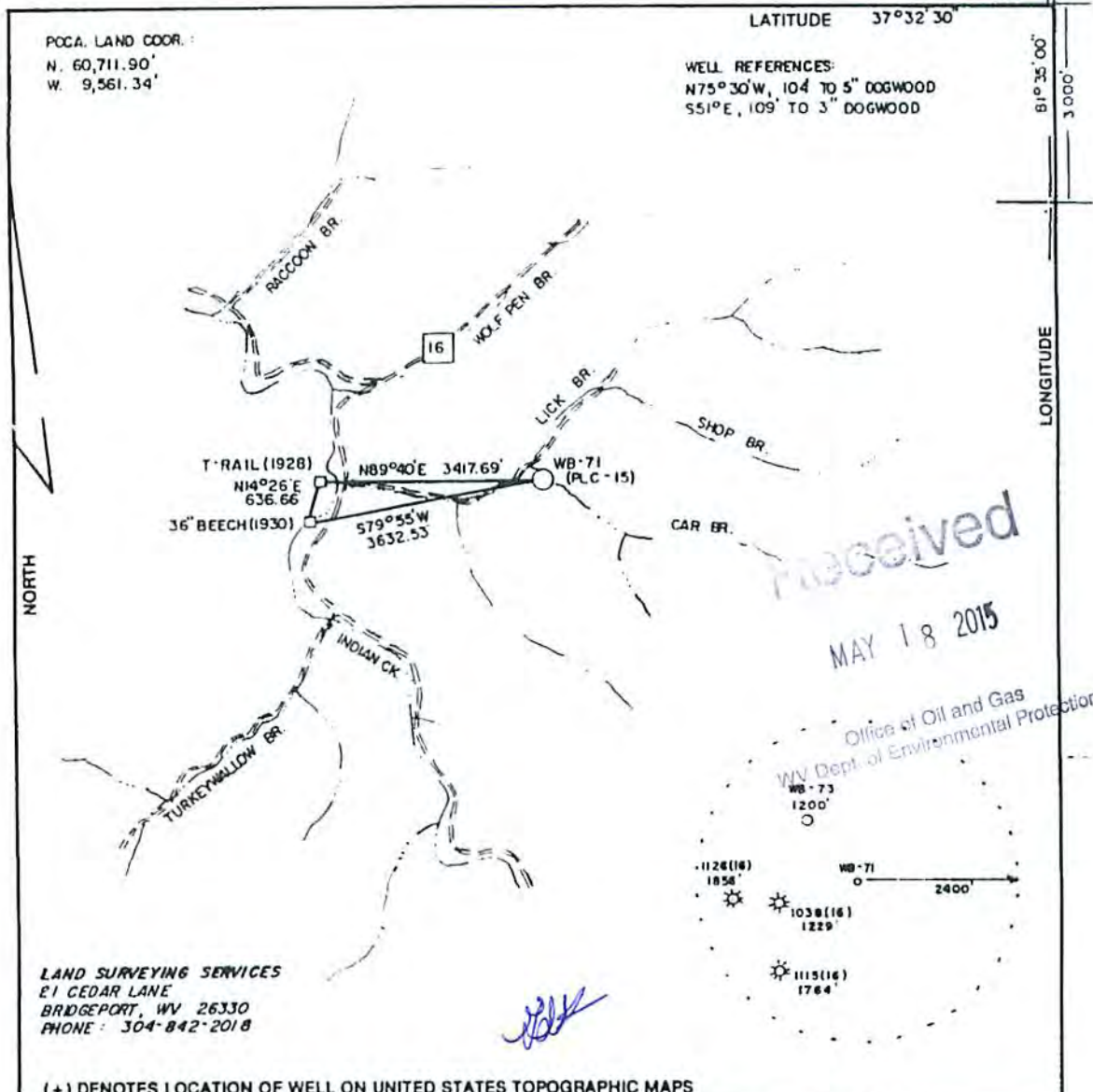
	FORMATION	TOP	BOTTOM	COMMENT
1.	SHALE & SAND	0	126	
2.	COAL	126	129	
3.	SAND	129	161	
4.	COAL	161	163	H2O @ 130
5.	SAND	163	272	
6.	COAL	272	276	
7.	SAND	276	385	
8.	COAL	305	389	
9.	SAND	389	525	
10.	COAL	525	529	
11.	SAND & SHALE	529	554	
12.	COAL	554	558	
13.	SAND & SHALE	558	653	
14.	COAL	653	660	
15.	SAND & SHALE	660	1385	
16.	LIME	1385	1428	
17.	SAND	1428	1805	
18.	MAXTON	1805	2107	
19.	SAND & SHALE	2107	2166	GAS SHOW
20.	L MAXTON	2166	2214	
21.	SHALE	2214	2320	DTD
22.		0	0	

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MAY 18 2015

Office of Oil and Gas
 WV Dept. of Environmental Protection

109 012914



LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

received
 MAY 18 2015
 Office of Oil and Gas
 WV Dept. of Environmental Protection

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 2500
 PROVEN SOURCE OF ELEVATION BM 3000 W. OF LOCATION ELEV. 1281'

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 ENERGY.
 (SIGNED) _____
 R.P.E. _____ I.L.S. 674
 STEPHEN D. LOAN

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE JUNE 25, 1992
 OPERATOR'S WELL NO. WB-71 (PLC NO. 15)
 API WELL NO. 47-109-01291
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1420' WATER SHED CAR BRANCH
 DISTRICT CENTER COUNTY WYOMING
 QUADRANGLE PINEVILLE 7.5 min.

SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE 24980.40
 OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP. LEASE ACREAGE 10,050.85
 LEASE NO. 56244

PROPOSED WORK: DRILL 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 BIG LIME ESTIMATED DEPTH 2350'
 WELL OPERATOR BOWIE, INC. DESIGNATED AGENT WILLIAM BOWIE
 ADDRESS P. O. BOX 1430 ADDRESS P. O. BOX 1430
CLARKSBURG, WV 26302-1430 CLARKSBURG, WV 26302-1430

FORM WV-6

COUNTY NAME
 PERMIT

07/10/2015

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
13054
3) API Well No.: 47 - 109 - 01291

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>Pinnacle Land Company</u>	Name <u>Mechel North America (coal above the Poca 4 Seam)</u>
Address <u>PO Box 338</u>	Address <u>818 North Eisenhower Drive</u>
<u>Pineville, WV 24874</u>	<u>Beckley, WV 25801</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Natural Resource Partners</u>
(c) Name _____	Address <u>5260 Irwin Road</u> <u>PO Box 2827</u>
Address _____	<u>Huntington, WV 25705</u>
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 268</u>	Name <u>Pinnacle Mining Company LLC (coal in Poca 3 and Poca 4 Seams)</u>
<u>Nimitz, WV 25978</u>	Address <u>PO Box 338</u>
Telephone <u>304-382-8402</u>	<u>Pineville, WV 24874</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 reverse 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 627 Claypool Hill Mall Road
Cedar Bluff, VA 24637
 Telephone 276-596-5137

Received
MAY 18 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 13th day of May 2015

My Commission Expires 6/30/15
[Signature] BEVERLY A. WEBB Notary Public

NOTARY PUBLIC
Commonwealth of Virginia
Reg. #7502331
W. 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.

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 Car Branch Quadrangle Pineville, WV

Elevation 1420 ft. County Wyoming District Center

Description of anticipated Pit Waste: water for plugging of abandoned gas well. **NO PIT WASTE**
JWM

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

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.)

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* **MAY 18 2015**

Company Official (Typed Name) Ed Fanning

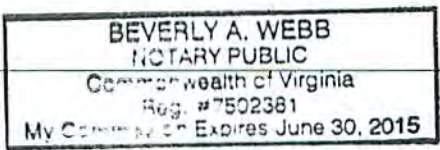
Company Official Title Permitting Supervisor

Office of Oil and Gas
WV Dept. of Environmental Protection

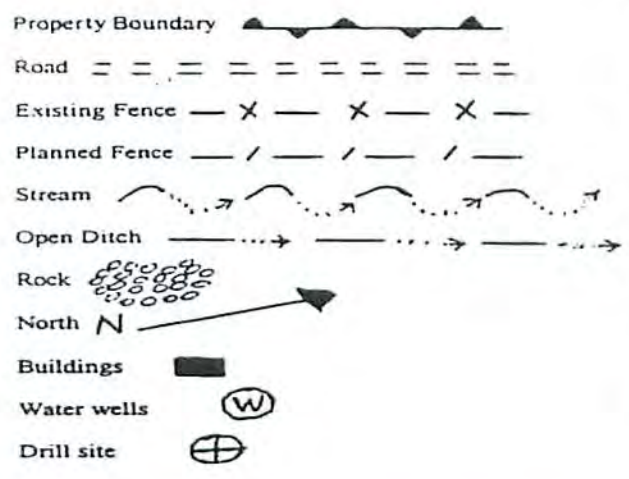
Subscribed and sworn before me this 13th day of May, 2015

Beverly A. Webb Notary Public

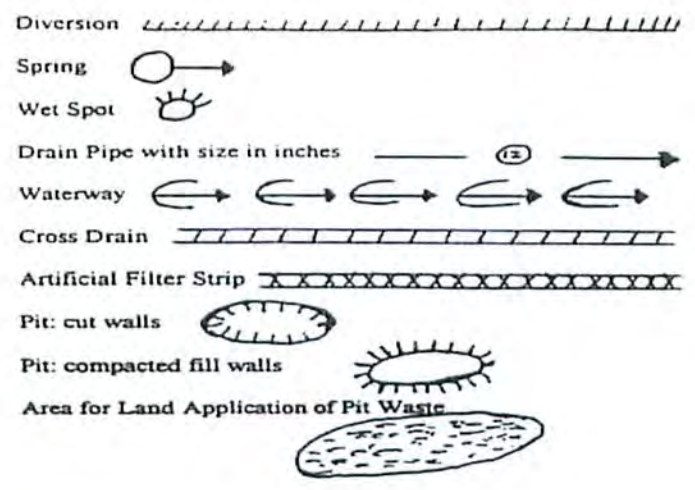
My commission expires 6/30/15



07/10/2015



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	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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MAY 18 2015

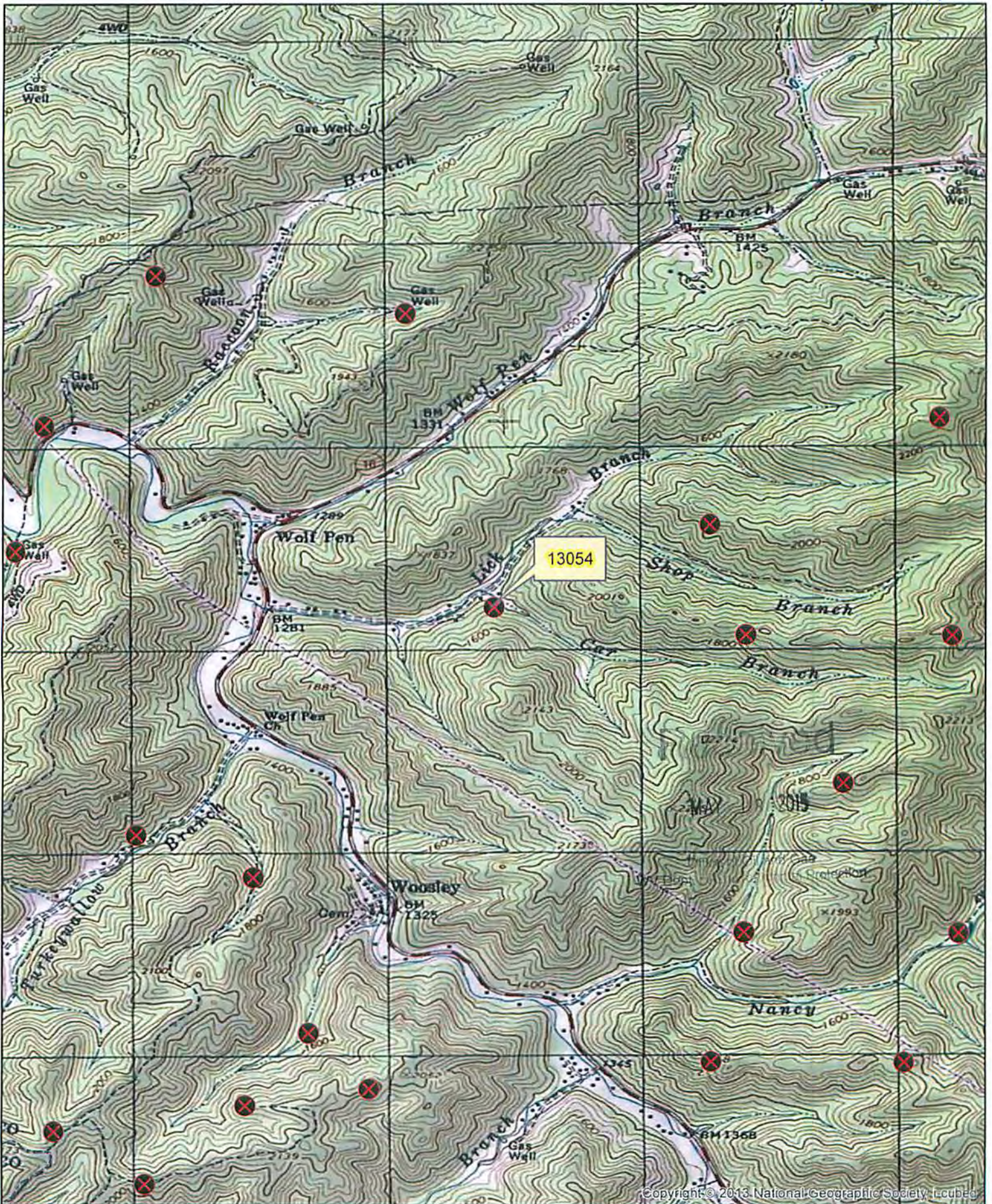
Plan Approved by: *Greg Kennedy*

Office of Oil and Gas
WV Dept. of Environmental Protection

Comments: _____

Title: *Inspector* Date: *5/12/15*

Field Reviewed? (*2*) Yes () No



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[Handwritten signature]




Date: 2/27/2015	Prepared By: KK
Revisions:	Approved By: BS

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CONSOL ENERGY

PROPOSED PLUGGING
WELL NUMBER 13054
APR 17, 2015
GENERAL LOCATION MAP

10901291 A

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-109-01291 WELL NO.: 13054

FARM NAME: Pinnacle Land Company

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: Wyoming DISTRICT: Center

QUADRANGLE: Pineville, WV 7.5 min.

SURFACE OWNER: Pinnacle Land Company

ROYALTY OWNER: Natural Resource Partners

UTM GPS NORTHING: 448,436 m.

UTM GPS EASTING: 4,154,220 m. GPS ELEVATION: 432 m. (1420')

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 _____

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 Huter Signature Permit Agent Title 5/12/15 Date

Received

MAY 18 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

07/10/2015