



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

September 05, 2014

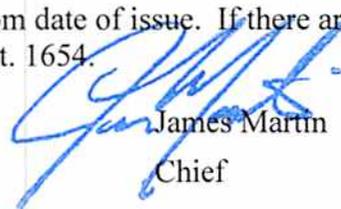
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4700635, 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: 11770
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-4700635
Permit Type: Plugging
Date Issued: 09/05/2014

Promoting a healthy environment.

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

4700635P

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. 11770
3) API Well No. 47-047 - 00635

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 2786 ft. Watershed Turkey Gap Branch of Elkhorn Creek
District Elkhorn 4 County McDowell 47 Quadrangle Crumpler 314

6) Well Operator CNX Gas Company LLC 7) Designated Agent Jeremy Jones
Address 1000 Consol Energy Drive Address One Dominion Drive
Canonsburg, PA 15317 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

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

Work order approved by inspector Gary Kennedy

RECEIVED
Office of Oil and Gas
Date AUG 21 2014
WV Department of
Environmental Protection

API 47-47-00635 Plugging Procedure

1. Verify total depth 4895'.
 2. Run free-point survey on 3-1/2" casing.
 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 3-1/2" casing at free-point.
 5. Cement through 3-1/2" csg. while pulling 3-1/2", from top of bottom plug to approximately 100' below the 8-5/8" casing shoe. (Approx. 1428') Pull remaining 3-1/2" out of well.
 6. Run free-point survey on 8-5/8" casing.
 7. Run tubing to previous cement top (1428'). 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 20" if 8-5/8" is cut and pulled.
 10. Cement from 50' below 20" shoe to surface.
 11. Install 7" X 4' steel monument with API# and Date.

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.

[Signature]
7/15/14

RECEIVED
Office of Oil and Gas
AUG 21 2014
WV Department of
Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Sulphuro 4700635P

RECEIVED

AUG 15 1975

OIL & GAS DIVISION
DEPT. OF MINES

Rotary XXX Oil _____
Cable _____ Gas XX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle BRAMWELL
Permit No. MCD-635

Company Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Farm Pocahontas Land Corp. Acres 137.53
Location (waters) Turkey Gap Branch
Well No. 11770 Elev. 2786'
District Elkhorn County McDowell
The surface of tract is owned in fee by _____

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20 3/8	20	20	To surface
Cond. 13-10"			
9 5/8			
8 5/8	1328	1328	To surface
7			
5 1/2			
4 1/2			
3 1/2	4876	4876	85 bags (371 cement)
2			
Liners Used			

Address _____
Mineral rights are owned by _____
Address _____
Drilling Commenced 6-7-75
Drilling Completed 6-20-75
Initial open flow 21 M cu. ft. _____ bbls.
Final production 98 1/2 M cu. ft. per day _____ bbls.
Well open S.I. 14 days hrs. before test. 895# RP.
Well treatment details:

Attach copy of cementing record.

Well fractured in Weir with 48,000# sand, 500 gal 15% acid 770 bbl water
Perforations: 4724'-4744' with 20 shots

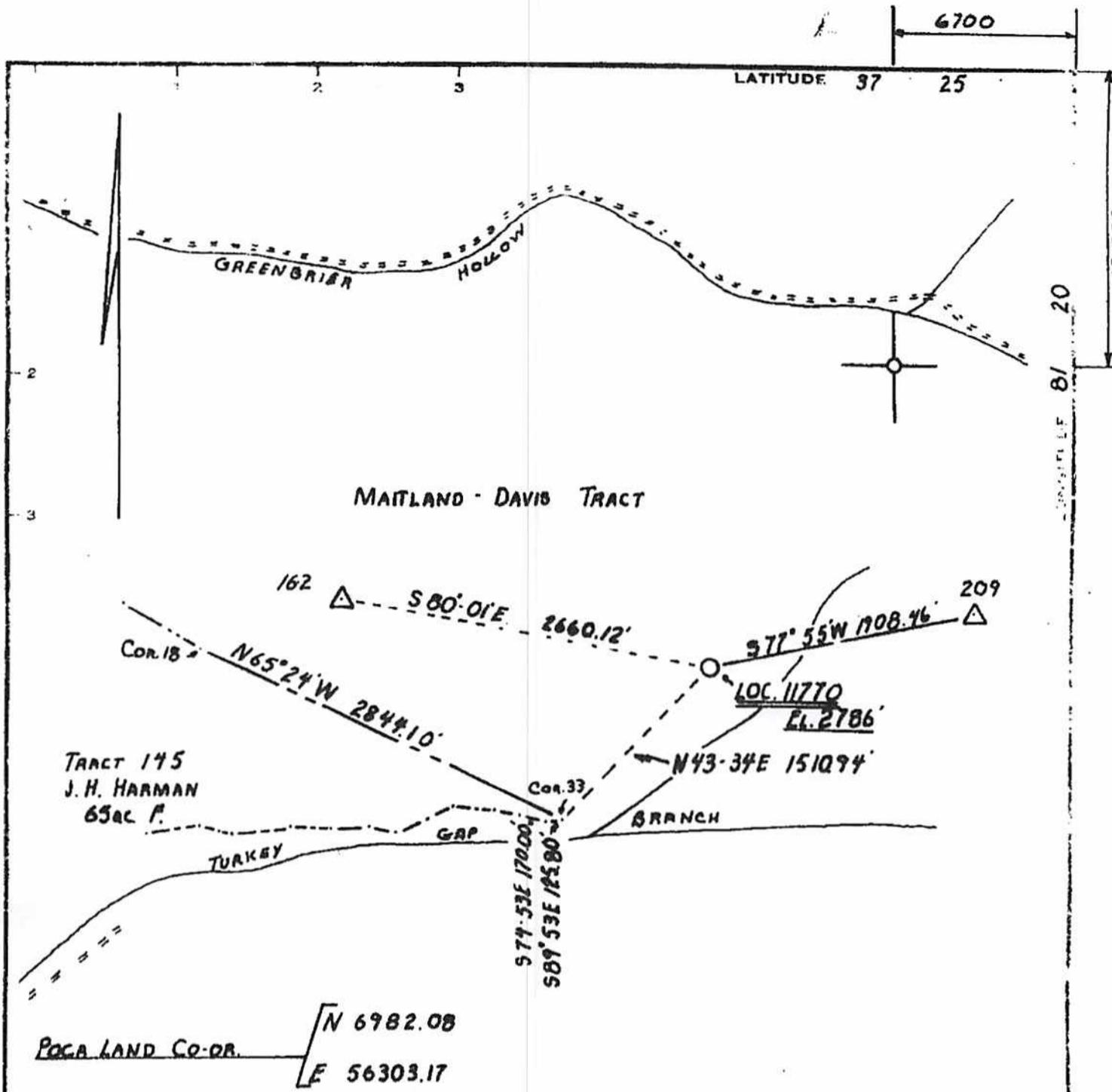
Coal was encountered at 650 Feet 36" Inches
Fresh water 253' Feet Salt Water None Feet
Producing Sand Weir Depth 4724-44'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	650	Water	253' Fresh
Coal			650	653		
Sand & Shale			653	1634		
Ravencliff			1634	1696		
Sand & Shale			1696	2808		
Maxton Sand			2808	3039		
Sand & Shale			3039	3222		
Little Lime			3222	3344		
Big Lime			3344	4415	Gas	3400' Show
Injun			4415	4460		
Sand & Shale			4460	4706		
WEIR			4706	4754	Gas	4724-44'
Total Depth				4895'		

Consolidated Gas Supply Corporation
445 West Main Street
Clarksburg, W. Va.

(over)

* Indicates Electric Log tops in the remarks section.



Minimum Error of Closure **1' IN 2500'**
 Source of Elevation **POCAHONTAS LAND CORP. Δ 209, VOL. 1560/16**
ELEVATION 3184.86

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location
 Drill Deeper
 Abandonment

MAP SHEET 239W 5142 - W 45 FB. 1706 p 1-4

Company **CONSOL. GAS SUPPLY CORP.**
 Address **CLARKSBURG, WEST VIRGINIA**
 Farm **POCAHONTAS LAND CORP.**
 Tract **18-137-53** Acres **103,420** Lease No. **79917**
 Well (Farm) No. _____ Serial No. **11770**
 Elevation (Spirit Level) **2786'**
 Quadrangle **C.C. BRAMWELL**
 County **MCDOWELL** District **ELKHORN NORTHFORK**
 Engineer **Jackson M. Jovill**
 Engineer's Registration No. **2397**
 File No. _____ Drawing No. _____
 Date **7-23-74** Scale **1" = 1000'**

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

WELL LOCATION MAP
 FILE NO. **McD-635**

• Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing. **47-047**

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

Farm Name: POCAHONTAS LAND CORP Operator Well No.: 11770 DTI Rework DTI

LOCATION: Elevation: 2785' Quadrangle: Crumpler 7.5'

District: Elkhorn County: McDowell

Latitude: 11,180 Feet South of: 37 Deg. 25 Min. 00 Sec.
Longitude: 6,860 Feet West of: 81 Deg. 20 Min. 00 Sec.

Company: Dominion Transmission, Inc.

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 445 W. Main Street Clarksburg, WV 26301				
Agent: James Blasingame				
Inspector: Bill Hatfield				
Date Permit Issued: 11/22/2004				
Date Well Work Commenced: 7/27/2005				
Date Well Work Completed: 11/04/2005				
Verbal Plugging:		See existing	Previous Casing prog	WR-35 for
Date Permission granted on:				
Rotary Cable X Rig				
Total Depth (feet):				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)?: No				
Coal Depths (ft.): N/A				
Oil Depths (ft.): N/A				

RECEIVED
Office of Oil & Gas

FEB 18 2009

OPEN FLOW DATA NOTE: Encountered Mechanical Problems. Plan to Plug and Abandon.

WV Department of Environmental Protection

Producing formation RAVENCLIFF Pay zone depth (ft) 1670'-1680'
 Gas: Initial open flow - MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 133 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 12 Hours
 Static rock Pressure 125 psig (surface pressure) after 12 Hours

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

*** COMMINGLED WITH PREVIOUS FORMATIONS**

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 WELLBORE.

Signed: James Blasingame
 By: James Blasingame
 Date: 1/30/09

MR RUB

WR-35

1/20/2009

Rev (5-01)

WELL: 11770 DTI Rework DTI

Page 2 of 2

11/04/2005 WILL FRAC TODAY W/ SUPERIOR.
 ONE STAGE FRAC W/ SUPERIOR. RAVENCLIFF 1670' - 1680' (21 HOLES) - SPOT 250 GAL 15%
 HCL AND BREAKDOWN W/ TREATED WATER @ 17 BPM, BDP 2339#, ISIP 780#. 75Q FOAM
 FRAC - 26,000 LB 20/40 SAND (1 - 3 PPA BH), 126 BBL FLUID, 282,000 SCF N2, ATP 1678#,
 AIR 20 BPM, 5 MIN SIP 1395#. OPEN WELL ON 1/4" CHOKE TO PIT AND WORK UP TO 2"
 OVERNIGHT.

11/04/2005
 SUPERIOR
 11770 DTI
 RAVENCLIFF
 1670' - 1680'

[Handwritten signature]

4700635P

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
11770
3) API Well No.: 47 - 047 - 00635

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>Pocahontas Land Corporation</u>	Name _____
Address <u>P.O. Box 1517</u> ✓	Address _____
<u>Bluefield, WV 24701</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pardee Minerals LLC</u> ✓
	Address <u>1717 Arch Street Suite 4010</u>
	<u>Philadelphia, PA 19103-2739</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Gary Kennedy</u> ✓	(c) Coal Lessee with Declaration
Address <u>PO Box 268</u>	Name _____
<u>Nimitz, WV 25978</u>	Address _____
Telephone <u>304-382-8402</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 Kammerling

Its: Attorney-in-Fact

Address 1000 Consol Energy Drive
Canonsburg, PA 15317

Telephone 276-596-5075

Subscribed and sworn before me this 21st day of June

Bernard Wehl

My Commission Expires 6/30/2015

BEVERLY A. WERTZ
NOTARY PUBLIC
Commonwealth of West Virginia
Notary Public
Reg. # 250238
My Commission Expires 6/30/2015

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.

RECEIVED
Office of Oil and Gas
AUG 21 2014
WV Department of
Environmental Protection

4700635P

7014 0150 0002 1197 3786

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)
 For delivery information visit our website at www.usps.com.

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

Sent Gary Kennedy
 PO Box 268
 Nimitz, WV 24978

7014 0150 0002 1197 3793

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)
 For delivery information visit our website at www.usps.com.

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

To
 WVDEP Office of Oil and Gas
 Attn: Permitting Department
 601 57th Street, SE
 Charleston, WV 25304-2345

7014 0150 0002 1197 3762

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)
 For delivery information visit our website at www.usps.com.

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

Sent Pocahontas Land Corporation
 Attn: Mark Kinder
 PO Box 1517
 Bluefield, WV 24701

7014 0150 0002 1197 3779

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)
 For delivery information visit our website at www.usps.com.

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

To
 Pardee Minerals LLC
 1717 Arch St Suite 4010
 Philadelphia, PA 19103-2739

RECEIVED
 Office of Oil and Gas
 AUG 21 2014
 WV Department of
 Environmental Protection

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 Turkey Gap Branch of Elkhorn Creek Quadrangle Crumpler

Elevation 2786 ft. County McDowell District Elkhorn

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

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

*NO PIT ∴ ALL WELL EFFLUENT
MUST BE CONTAINED
IN TANKS.
gwm*

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*
Company Official (Typed Name) Ed Fanning
Company Official Title Supervisor

Subscribed and sworn before me this 21st day of July, 20 14

Benny J. Wahl

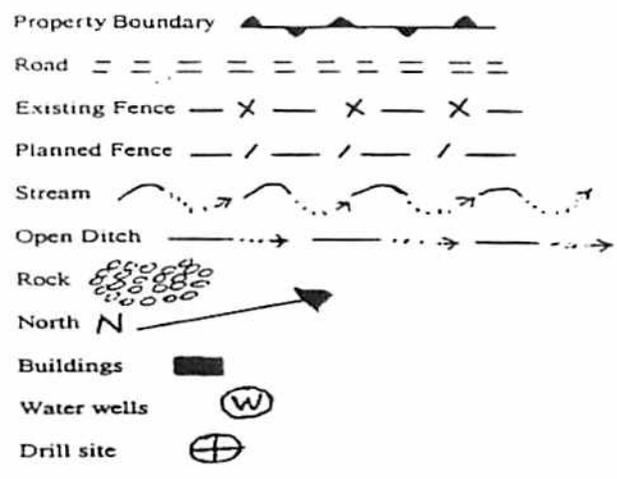
Notary Public

RECEIVED
Office of Oil and Gas
AUG 21 2014

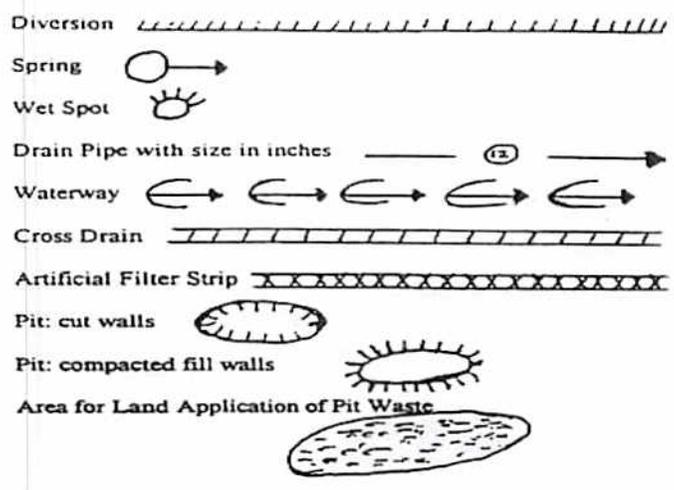
My commission expires 6/30/2015

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

WV Department of
Environmental Protection



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 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: *Kenny Kennedy*

Comments: _____

Title: *Inspector*

Date: *7/15/14*

Field Reviewed? () Yes () No

RECEIVED
Office of Oil and Gas
AUG 21 2014
WV Department of
Environmental Protection

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-047-0635 WELL NO.: 11770

FARM NAME: Pocahontas Land Corp

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: McDowell DISTRICT: Elkhorn

QUADRANGLE: Crumpler, WV

SURFACE OWNER: Pocahontas Land Corp

ROYALTY OWNER: Pocahontas Land Corp

UTM GPS NORTHING: 4,137,682.51 m

UTM GPS EASTING: 468,458.47 m GPS ELEVATION: 870 m (2854 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.

[Signature]
Signature

Prod. Coord.
Title

RECEIVED
Office of Oil and Gas
7/17/14
AUG 21 2014
Date
WV Department of
Environmental Protection

4700635 P



Virginia Operations
627 Claypool Hill Road
Cedar Bluff, VA 24609

Bob Staton, MS, PG
Permitting Agent
Phone: 276-596-5137

Permitting Department
WVDEP **Office of Oil and Gas**
601 57th Street, SE
Charleston, WV 25304-2345

RE: 47-047-00635

To whom it may concern;

Please find enclosed the plugging applications for the above referenced wells in McDowell County. Please let me know if you require any additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Bob Staton', is positioned above the printed name.

Bob Staton

Permitting Agent

enclosures

RECEIVED
Office of Oil and Gas
AUG 21 2014
WV Department of
Environmental Protection