



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 22, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4700904, 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: 12900
Farm Name: POCAHONTAS LAND
API Well Number: 47-4700904
Permit Type: Plugging
Date Issued: 04/22/2016

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.

4700904P

WW-4B
Rev. 2/01

1) Date _____, 20_____
2) Operator's
Well No. 12900
3) API Well No. 47-047 - 00904

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 ____/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production or Underground storage ____) Deep ____/ Shallow

5) Location: Elevation 2662 ft. Watershed Elkhorn Creek
District Elkhorn County McDowell Quadrangle Bramwell

6) Well Operator CNX Gas Company LLC 7) Designated Agent Anthony Kendziora
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 Brian Ferguson BKF Name L&D Well Services
Address 708 Manor 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 plugging procedures

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

Work order approved by inspector Brian K. Ferguson Date 3/25/2016

API 47-047-00904 Plugging ProcedureWell # 12900

BKF

1. Verify total depth 4855'.
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 or a point at least 100' above the Weir Perforations (4705' – 4720').
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. 1207') Pull remaining 4-1/2" out of well.
6. Run bond log on 8-5/8" casing.
7. Run tubing to previous cement top (1207'). 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 11-3/4" if 8-5/8" is cut and pulled.
10. Cement from previous cement top 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. Class A 3% CaCl cement will be utilized throughout the entire cementing process.

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Office of Oil and Gas
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WV Department of
Environmental Protection

4700900P

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JAN 20 1984

OIL & GAS DIVISION
DEPT. OF MINES



12900
47-047-00904

IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 24, 1983
Operator's
Well No. 12900
Farm Pocahontas Land Co.
API No. 47-047-0904

WELL OPERATOR'S REPORT
OF

047-0904

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: 2662' Watershed Elkhorn Creek
District: Elkhorn County McDowell Quadrangle Bramwell

COMPANY Consolidated Gas Supply Corp.
ADDRESS 445 W. Main St., Clarksburg, WV
DESIGNATED AGENT L. Joseph Timms, Jr.
ADDRESS 445 W. Main St., Clarksburg, WV
SURFACE OWNER Pocahontas Land Corp., c/o Tom Tilly
ADDRESS N. & W. Bldg. Bluefield, WV 24701
MINERAL RIGHTS OWNER Pocahontas Land Corp.
ADDRESS P. O. Box 1517, Bluefield, WV 24701
OIL AND GAS INSPECTOR FOR THIS WORK Rmc
Schoolcraft ADDRESS Geneville, WV 24747
PERMIT ISSUED September 9, 1983
DRILLING COMMENCED September 29, 1983
DRILLING COMPLETED October 12, 1983
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 20-1/8 Cond.	24	24	
11 3/4 13-1/2"	385	385	To surface
9 5/8			
8 5/8	1107	1107	To surface
7			
5 1/2			
4 1/2	4855	4855	100 Skts.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Weir Depth feet
Depth of completed well 4900 feet Rotary x / Cable Tools
Water strata depth: Fresh 186 feet; Salt feet
Coal seam depths: see Gamma Ray Logs Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Weir Pay zone depth 4698-4732 feet
Gas: Initial open flow 50 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 1510 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 825 psig (surface measurement) after 14 ^{days} 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

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Department of
0904

FORM IV-35
(REVERSE)

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

Perforated: 4705 - 4720 with 16 holes.
Fractured with 500 gals 15⁰ HCL, 6500# 20/40 sand and 102,000 standard C.F. Nitrogen.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay & Sand			0	25	
Coal			25	27	
Sand & Shale			27	269	
Coal			269	274	
Sand			274	279	
Open Shaft			279	284	
Shale & Sand			284	349	Gamma Ray Tops
Coal			349	354	#####
Shale & Sand			354	428	Coal 25 - 27
Coal			428	432	Coal 269 - 274
Sand & Shale			432	508	Coal 279 - 284
Coal			508	512	Coal 349 - 354
Sand & Shale			512	550	Coal 428 - 432
Red Rock & Shale			550	575	Coal 508 - 512
Sand & Shale			575	950	Coal 508 - 512
Red Rock & Shale			950	1013	Revencliff 1385 - 1434
Sand			1013	1021	Upper Maxon 2420 - 2549
Red Rock & Shale			1021	1050	Maxon 2693 - 2780
Sand & Shale			1050	1298	Lower Maxon 2889 - 2969
Revencliff			1298	1381	Little Lime 3104 - 3182
Shale & Sand			1381	1547	Blue Monday 3176 - 3213
Red Rock & Shale			1547	1588	Big Lime 3436 - 4429
Sand & Shale			1588	1710	Wair 4698 - 4732
Avis Lime			1710	1753	Log Total Depth 4918
Sand, Shale & Red Rock			1753	2399	
Upper Maxon			2399	2494	
Shale			2494	2556	
Red Rock & Shale			2556	2612	
Shale			2612	2760	
Maxton			2760	2775	
Sand & Shale			2775	3100	
Little Lime			3100	3205	
Sand & Shale			3205	3323	
Big Lime			3323	4415	
Red Rock & Shale			4415	4432	
Shale & Sand			4432	4686	
Red Rock & Shale			4686	4714	
Sand & Shale			4714	4700	

KBM 10' above G. L.

T.D.

(Attach separate sheets as necessary)

Consolidated Gas Supply Corp.
Well Operator

By: J. E. Shuman Manager of Production

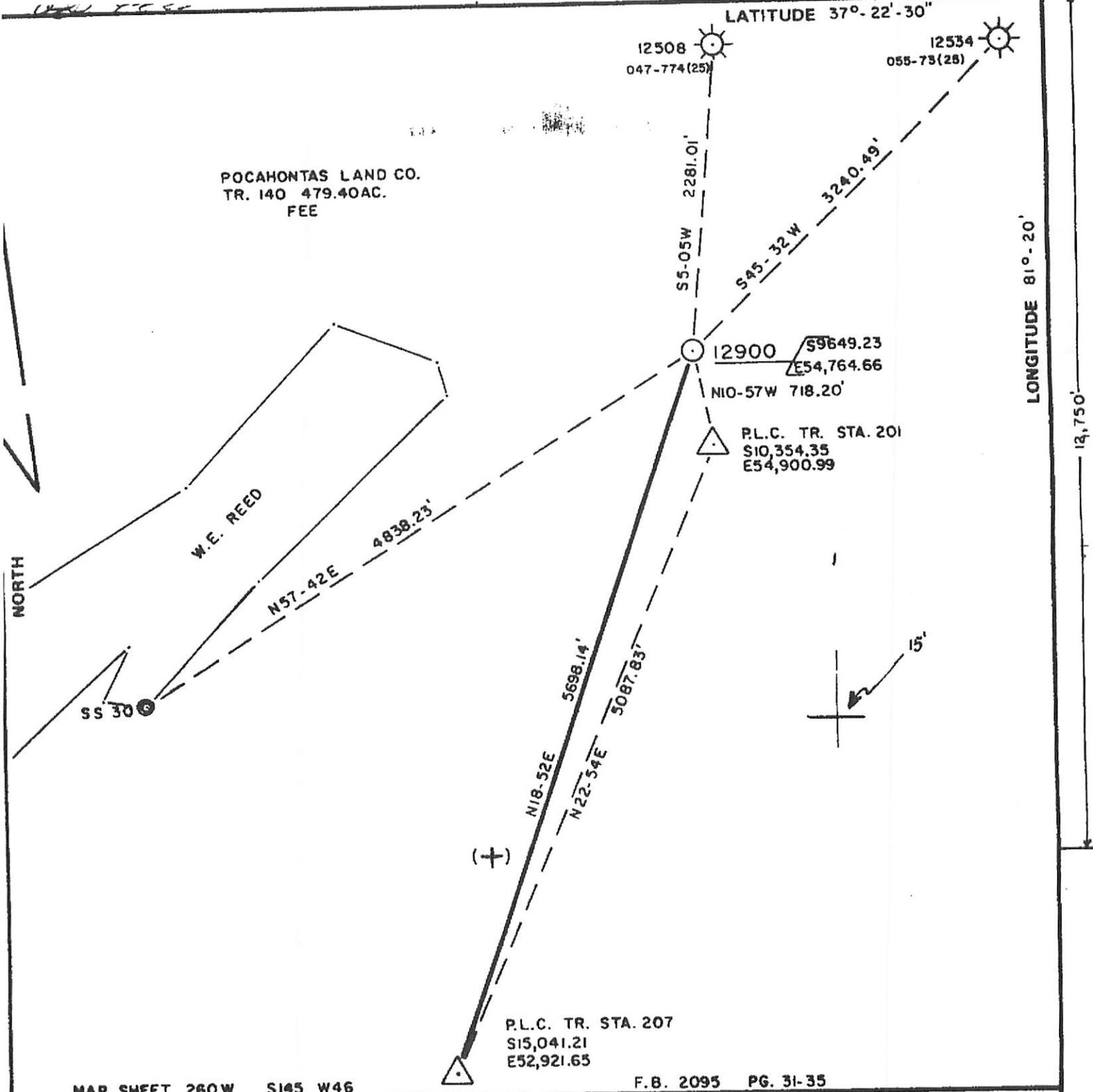
Date: October 24, 1983

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Bureau of Oil and Gas

APR 14 2016

ENVIRONMENTAL PROTECTION
Department

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
... encountered in the drilling of a well."



MAP SHEET 260W S145 W46

F.B. 2095 PG. 31-35

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1' IN 2500'
 PROVEN SOURCE OF ELEVATION U.S.G.S. TT5-TWC BY WV RT. 102 12,000' N.W. POCAHONTAS, VA. ELEV. 2775.00

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) Harrell M. Radcliffe
 R.P.E. _____ L.L.S. 74

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 7-21, 1983
 OPERATOR'S WELL NO. 12900
 API WELL NO. _____
47 - 047 - 0904P
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 2062 WATER SHED ELKHORN CREEK
 DISTRICT ELKHORN COUNTY MCDOWELL
 QUADRANGLE BRAMWELL
 SURFACE OWNER POCAHONTAS LAND CORP ACREAGE TR. 140 479.40 AC.
 OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP LEASE ACREAGE 103,420 AC.
 LEASE NO. 79917
 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 _____ ESTIMATED DEPTH 4900'
 WELL OPERATOR CONSOL. GAS SUPPLY CORP DESIGNATED AGENT L.J. TIMMS, JR.
 ADDRESS MAIN STREET ADDRESS MAIN STREET
CLARKSBURG WV 26301 CLARKSBURG. WV 26301

INCLOS 704

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number _____
12900
3) API Well No.: 47 - 047 - 00904

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 Company</u>	Name _____
Address <u>PO Box 1517</u>	Address _____
<u>Bluefield, WV 24701-1517</u>	_____
(b) Name <u>Penn Virginia Oil and Gas Corp.</u>	(b) Coal Owner(s) with Declaration
Address <u>840 Gessner Suite 800</u>	Name <u>same</u>
<u>Houston TX 77024</u>	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Brian Ferguson</u>	(c) Coal Lessee with Declaration
Address <u>708 Manor Drive</u>	Name _____
<u>Beckley, WV 25801</u>	Address _____
Telephone <u>304-550-6265</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: Manager - Gas Permits
 Address 627 Claypool Hill Mall Road
Cedar Bluff, VA 24609
 Telephone 276-596-5137

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 DEPARTMENT OF OIL AND GAS
 APR 14 2016

Subscribed and sworn before me this 28th day of March, 2016
[Signature]
 My Commission Expires 03/11/2019

Notary Public
 WV Department of Environmental Protection
 COMMONWEALTH OF PENNSYLVANIA
 NOTARIAL SEAL
 Sara M. Micoli, Notary Public
 Cecil Twp., Washington County
 My Commission Expires March 11, 2019

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, in the normal course of 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.

WW-9
(2/15)

API Number 47 - 047 - 00904
Operator's Well No. 12900

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company LLC OP Code 494458046

Watershed (HUC 10) 0507020102 Quadrangle Bramwell

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

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 _____)

Will closed loop system be used? If so, describe: a pumper truck with a flow back tank will be used in lieu of a pit.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

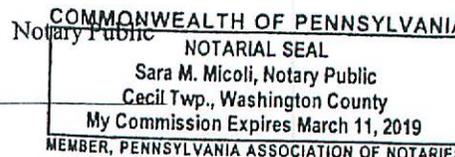
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 *Matt Hanley*
Company Official (Typed Name) Matt Hanley
Company Official Title Manager Gas Permitting

Subscribed and sworn before me this 28th day of March, 2016

Sara M Micoli
My commission expires 03/11/2019



CNX Gas Company LLC

Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH to be determined

Lime based on pH Tons/acre or to correct to pH 7

Fertilizer type ¹⁰⁻²⁰⁻²⁰ _____

Fertilizer amount 550 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
orchard grass	25		
birdsfoot trefoil	15		
lidino clover	10		

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

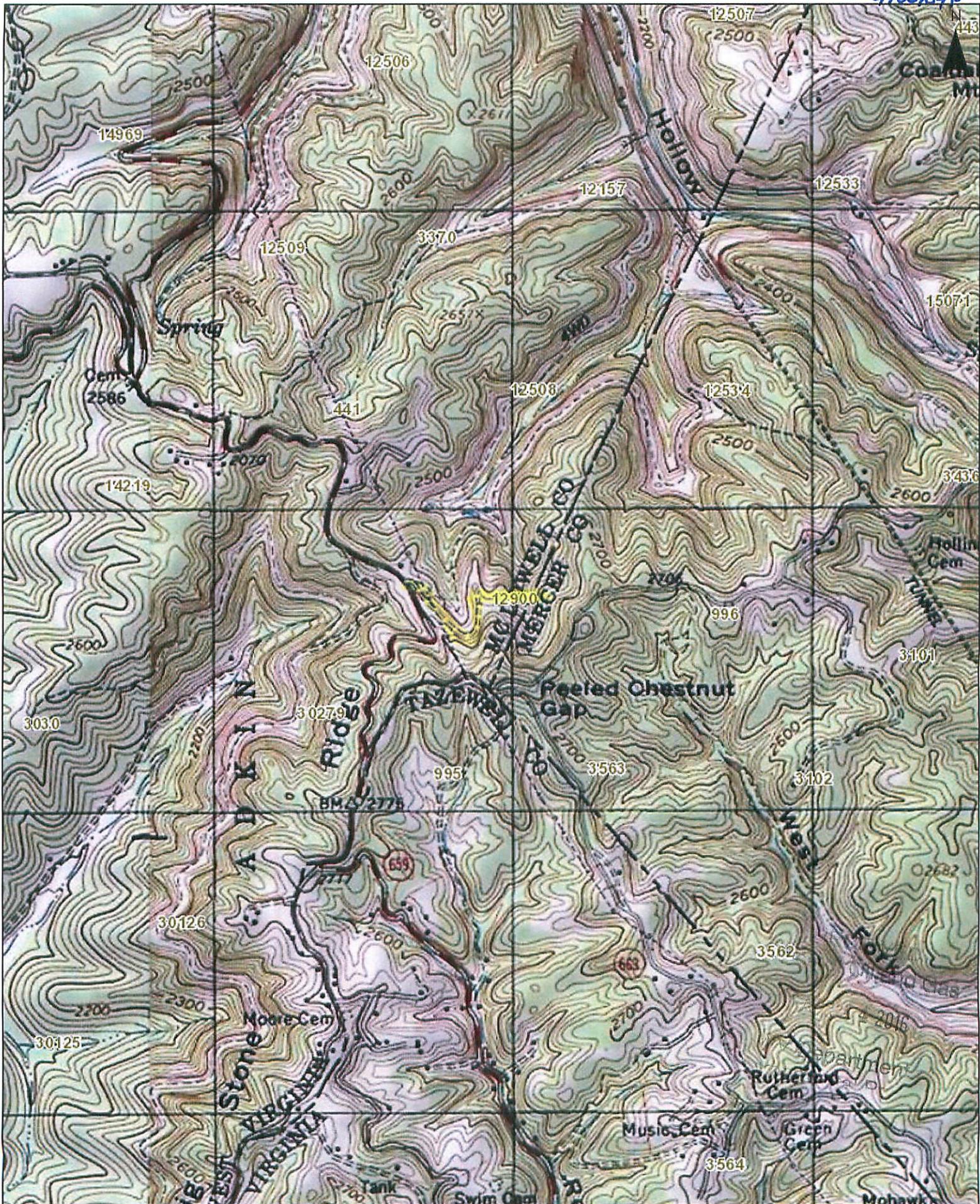
Comments: _____

Title: Oil & Gas Inspector

Date: 3/25/2016

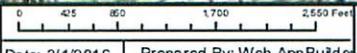
Field Reviewed? () Yes () No

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Office of Oil and Gas
APR 14 2016
Department of
Environmental Protection



Legend

Labels — CNX Access Road



Date: 3/1/2016 Prepared By: Web App Builder for ArcGIS

This product was generated by CONSOL Energy's WEB Map. Intended for Internal Use Only.

EMPPOWER ENERGY
General Location 12900

47009047

WW-7
8-30-06



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

API: 47-047-00904 WELL NO.: 12900
FARM NAME: Pocahontas Land Company
RESPONSIBLE PARTY NAME: CNX Gas Company, LLC
COUNTY: McDowell DISTRICT: Elkhorn
QUADRANGLE: Bramwell
SURFACE OWNER: Pocahontas Land Company
ROYALTY OWNER: Pocahontas Land Company
UTM GPS NORTHING: 4,132,695.883 m.
UTM GPS EASTING: 467,930.64 m. GPS ELEVATION: 2662 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] Production Foreman 3/30/16
Signature Title Date

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Office of Oil and Gas
APR 14 2016
WV Department of Environmental Protection