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: 47-10901292, 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: WB-72, PLC-16
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-10901292
Permit Type: Plugging
Date Issued: 07/06/2015

Promoting a healthy environment.

10901292P

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.

WW-4B
Rev. 2/01

1) Date _____, 20_____
2) Operator's
Well No. 13055
3) API Well No. 47- 109 - 01292

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 1587 ft. Watershed Turkeywallow Branch
District Center County Wyoming Quadrangle Pineville, WV

6) Well Operator CNX Gas Company LLC
Address 2481 John Nash Blvd
Bluefield, WV 24701

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

8) Oil and Gas Inspector to be notified
Name Gary Kennedy
Address PO Box 268
Nimitz, WV 24978

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 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

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API 47-109-01292 (13055/WB72) Plugging Procedure

Item #	Responsible Party	Description
1.	CNX	Verify total depth to 2272' (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 824' 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 Ravencliff Formation perforations (1409'). Pump 100' of 6% gel spacer from 1409' to 1309'. Pump Class A 3% CaCl cement from top of Gel to approximately 300' below the P3 or lowest minable coal seam (approx. 1124').
5.	CNX	Cut 4 ½" casing at approximately 839' 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 1 shot every 100' from 1050' 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 724'.
12.	CNX	Pump Class A cement to surface. Class A Cement plug from 724' to 0'.

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Environmental Protection

(1992)

13055/WB72/PLC#16 47-109-01292 37.521316 -81.594412

DTD @ 2450'

9 5/8" @ 36'

7" @ 963' CTS

4 1/2" @ 2272'

Berea, Maxton 2093' - 2131'

1509' - 1597'

Estimated P3 per (Dave Trader PMC) 824'

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Item #	Responsible Party	Description
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.

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WV Dept. of Environmental Protection

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1090129 2P

WR-35

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WV Division of Environmental Protection
JAN 23 1995
Permitting
Office of Oil & Gas

API #: 47-109-01292

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: 16 B-72

Elevation: 1587 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 7380 Feet South of 37 Deg. 32 Min. 30.00 Sec.
Longitude: 3160 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: 12/16/92
Well Work Completed: 12/22/92
Verbal Plugging
Permission granted on:
Rotary: ☒ Cable: ☐ Rig
Total Depth (feet): 2460
Fresh Water Depths (ft): 85,240,515

Salt Water Depths (ft): N/A

Casing and Tubing	Used in Drilling	Left in Well	Cement Fill Up in SKS
9 5/8	36	--	--
7"	963	963	CTS
4 1/2"	2272	2272	150

Is Coal Being Mined in the Area? (Y/N) Yes
Coal Depths (ft) 100-2,380-85,510-12,570-72,590-92

OPEN FLOW DAT

Producing formation RAVENCLIFF , MAXTON Pay zone depth (ft) 2093' - 2131'
Gas: Initial open flow -- MCF/day Oil: Initial open flow: N/A BBL/day
Final open flow: -- MCF/day Final open flow: N/A BBL/day
Time of open flow between initial and final tests -- Hours
Static Rock Pressure -- psig (surface pressure) afte Hours

Producing formation , Pay zone depth (ft) 1509' - 1597'
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: Cleve Bowie
Date: 1-18-95

10901292P

Stage 1 Frac: (2094-2131) 13 HOLES, 500 GAL 15% HCL, 350 SKS SAND, 560 BBL 75Q N2 FOAM

Stage 2 Frac: (1590-1597) 28 HOLES, 500 GAL 15% HCL, 300 SKS SAND, 475 BBL GELLED H20

Stage 3 Frac:

Stage 4 Frac:

Stage 5 Frac:

	FORMATION	TOP	BOTTOM	COMMENT
1.	SAND	0	40	
2.	SAND & SHALE	40	370	1/2" H20 @ 220
3.	COAL	370	375	1" H20 @ 375
4.	SAND & SHALE	375	525	
5.	COAL	525	530	
6.	SAND & SHALE	530	1110	
7.	SAND	1110	1150	
8.	SHALE	1150	1500	
9.	RAVENCLIFF	1500	1610	GAS SHOW
10.	AVIS	1610	1650	
11.	SHALE	1650	1980	
12.	MAXTON	1980	2220	
13.	SHALE & SAND	2220	2448	DTD
14.		0	0	
15.		0	0	
16.		0	0	
17.		0	0	
18.		0	0	
19.		0	0	
20.		0	0	
21.		0	0	
22.		0	0	

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WV Dept. of Environmental Protection

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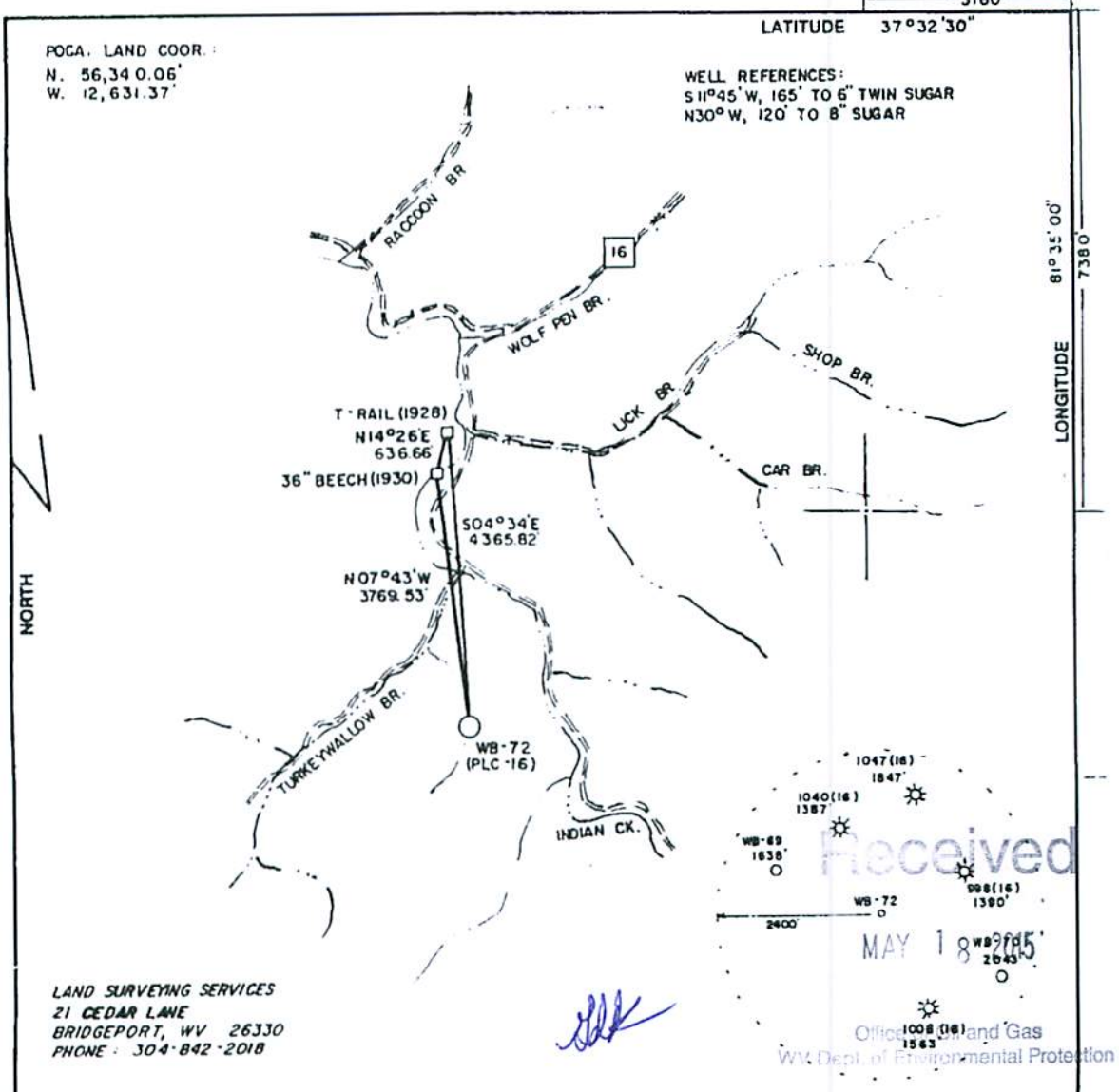


LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

(+) 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 4300' N. 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. _____ L.L.S. 674 STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE JUNE 25, 19 92
OPERATOR'S WELL NO. WB-72 (PLC NO. 16)
API WELL NO.
47 - 109 - 1292
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1587' WATER SHED TURKEY WALLOW 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 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 BIG LIME ESTIMATED DEPTH 2650'
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

13055

1090 1292 P

WW-4A
Revised 6-07

1) Date:
2) Operator's Well Number
13055

3) API Well No.: 47 - 109 - 01292

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: Pinnacle Land Company
Address: PO Box 338
Pineville, WV 24874
(b) Name:
Address:
(c) Name:
Address:

6) Inspector: Gary Kennedy
Address: PO Box 268
Nimitz, WV 25978
Telephone: 304-382-8402

5) (a) Coal Operator
Name: Mechel North America (coal above the Poca 4 Seam)
Address: 818 North Eisenhower Drive
Beckley, WV 25801
(b) Coal Owner(s) with Declaration
Name: Natural Resource Partners
Address: PO Box 2827
Huntington, WV : 25727-2827
Name:
Address:
(c) Coal Lessee with Declaration
Name: Pinnacle Mining Company LLC (coal in Poca 3 and Poca 4 Seams)
Address: PO Box 338
Pineville, WV 24874

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 sete 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 Fannin
Its: Attorney-in-Fact
Address: 637 Claypool Hill Mall Road
Cedar Bluff, VA 24609
Telephone: 276-596-5137

Subscribed and sworn before me this 13th day of May 2015
Beverly A. Webb Notary Public
My Commission Expires

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 depprivacyoffier@wv.gov.

1090129 2P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 109 - 01292
Operator's Well No. 13055

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 Wallow Branch Quadrangle Pineville, WV

Elevation 1587 ft. County Wyoming District Center

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

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.

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

Company Official Signature Ed Fanning

Company Official (Typed Name) Ed Fanning

Company Official Title Permitting Supervisor

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

Notory Public

My commission expires

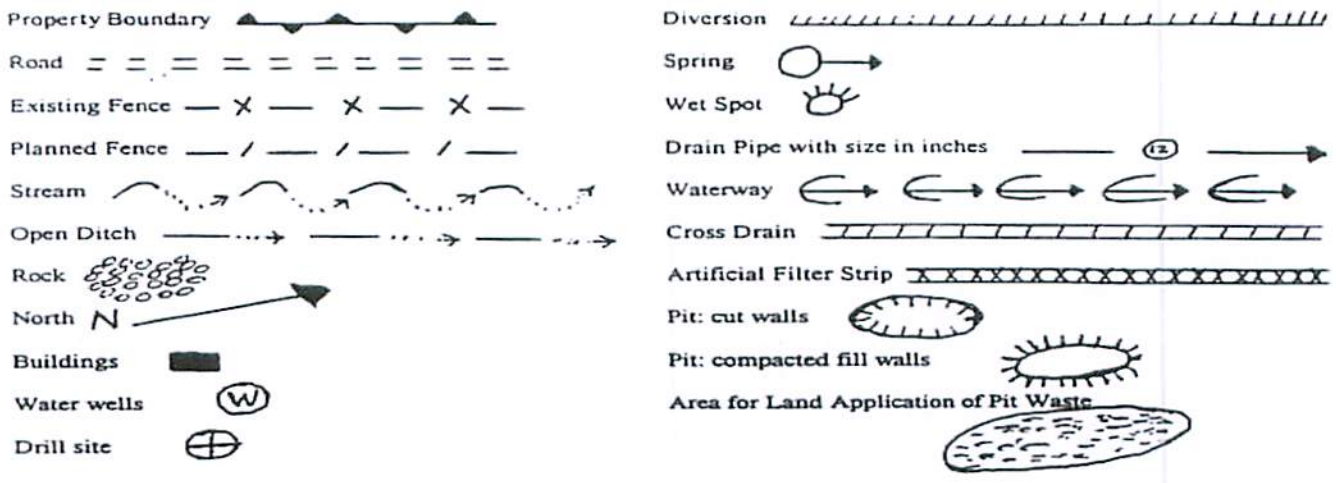
BRYAN A. WEBB
NOTARY PUBLIC
Commonwealth of Virginia
Reg. #7502314
My Commission Expires June 30, 2015

1090129 2P

Form WW-9

Operator's Well No. 13055

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

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.

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Office of Oil and Gas
WV Dept. of Environmental Protection

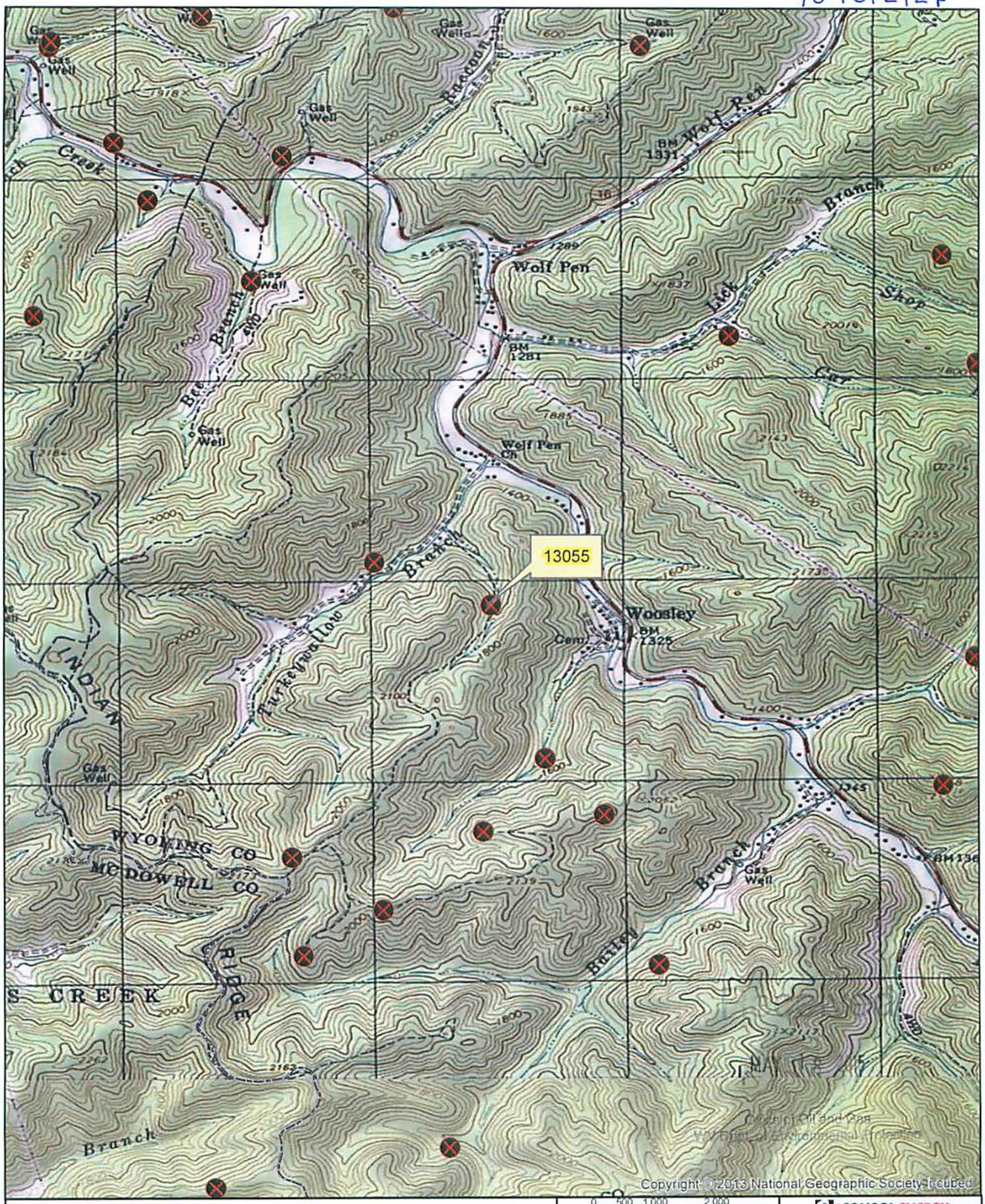
Plan Approved by: Jeffrey Kennedy

Comments:

Title: Inspector Date: 5/12/15

Field Reviewed? (✓) Yes ( ) No

10901292P



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N

0 500 1,000 2,000 Feet

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

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CONSOL ENERGY

PROPOSED PLUGGING
WELL NUMBER 13055
API# 47-109-01292
GENERAL LOCATION MAP

I:\Cadd\GIS\project areas\business unit support\oas permitting\gis\maps\wv plugging.mxd - bkk0uc6

10901292 P

WW-7
8-30-06

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

API: 47-109-01292 **WELL NO.:** 13055

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: 447,485 m.

UTM GPS EASTING: 4,152,890 m. **GPS ELEVATION:** 491 m. (1587')

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 _____

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MAY 18 2015
Office of Oil and Gas
WV Department of Environmental Protection

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
5/12/15 — Date