



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 15, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4702474, 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: WC021001
Farm Name: HEARTWOOD FORESTLAND
API Well Number: 47-4702474
Permit Type: Plugging
Date Issued: 07/15/2013

1) Date _____, 20_____
2) Operator's
Well No. WC021 001
3) API Well No. 47-047 - 02474

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 1575 ft. Watershed Sandy Huff of Tug River
District Sandy River County McDowell Quadrangle Davy
- 6) Well Operator CNX Gas Co. 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
Name Gary Kennedy
Address Rt. 5 Box 301
Bluefield, WV 24701
- 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:

First, the tubing will be used to determine the actual depth of the well. For this well, the total depth was reported as 1620 feet (see completion report). Next, the tubing will be removed from the well. A string of new tubing will be lowered to the bottom of the well and used to pump cement into the well. As the cement is pumped into the well, the tubing will be raised so that the cement will be evenly distributed throughout the well. At approximately one-half the depth up the well, the cement will be allowed to settle for 2-4 hours. After the time period has passed, the remainder of the well will be filled with cement in the same manner as the bottom of the well, all the way to the ground surface. Again, the cement will be allowed to settle for 2-4 hours and topped off with more cement if required. Finally, a vent pipe will be mounted to the top of the well and a identification monument will be placed at the top of the well.

Place 100' gel plug between cement plugs. Band log & part & squeeze if needed.

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

Received

Work order approved by inspector Gary Kennedy

Date 6/19/13
JUL 5 2013

WR-35
Rev 5-01
RECEIVED
Office of Oil & Gas
JAN 17 2008
WV Department of
Environmental Protection

DATE: January 11, 2008
API #: 47-4702474

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

Well Operator's Report of Well Work

Farm name: Heartwood Forestland Group Operator Well No.: 021001

LOCATION: Elevation: 1574.9' Quadrangle: Davy

District: Sandy River County: McDowell
Latitude: 8205.3 Feet South of 37 Deg. 30 Min. 00 Sec.
Longitude 8753.3 Feet West of 81 Deg. 42 Min. 30 Sec.

Company Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>Dart Oil & Gas Corporation</u>	<u>9 5/8"</u>		<u>61'</u>	<u>Condr Pipe</u>
<u>999 Executive Park Blvd, Suite 320</u>	<u>7"</u>		<u>299'</u>	<u>55 sx to Surf</u>
<u>Kingsport, TN 37660</u>	<u>4 1/2"</u>		<u>1595'</u>	<u>105 sx to Surf</u>
Agent: <u>Jackie Lee Hatfield</u>				
Inspector: <u>Barry Stollings</u>				
Date Permlt Issued: <u>August 27, 2007</u>				
Date Well Work Commenced: <u>Sept 6, 2007</u>				
Date Well Work Completed: <u>TD'd Sept 12, 2007</u>				
Verbal Plugging: <u>N/A</u>				
Date Permlsion granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable Rlg <input type="checkbox"/> E-Mats # <u>4</u>				
Total Depth (feet): <u>1620' LTD 1620'</u>				
Fresh Water Depth (ft.): <u>None</u>				
Salt Water Depth (ft.): <u>None</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): _____				

OPEN FLOW DATA - Well has not been completed.

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

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

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.). N/A

SUPPLEMENTAL Page #2: THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Edward K Diminick
By: Edward K. Diminick, District Manager
Date: 1/11/08

Received

JUL 5 2013

4702474F

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
 WCC021:001
3) API Well No.: 47 - 047 - 02474

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>Heartwood Forest Fund III, L.P.</u> ✓	Name <u>N/A</u>
Address <u>c/o the Forestland Group LLC</u>	Address _____
<u>19045 Stone Mountain Road</u>	_____
(b) Name <u>Abingdon, VA 24210</u>	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Heartwood Forestland Fund III</u> ✓
_____	<u>c/o The Forestland Group LLC</u>
_____	<u>19045 Stone Mountain Road</u>
_____	Address <u>Abingdon, VA 24210</u>
(c) Name _____	(c) Nat. Gas Lessee(s):
Address _____	Name <u>Chesapeake Appalachia LLC</u> ✓
_____	Address <u>P.O. Box 6070</u>
_____	<u>Charleston, WV 25362</u>
6) Inspector <u>Gary Kennedy</u> ✓	Name _____
Address <u>Rt. 5 Box 301 P.O. Box 268</u>	Address <u>Dart Oil and Gas Corporation</u> ✓
<u>Bluefield, WV 24701 Nimtz, WV</u>	<u>PO Box 177, 600 Dart Road</u>
Telephone <u>304-382-8402 25978</u>	<u>Mason, MI 48854</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.

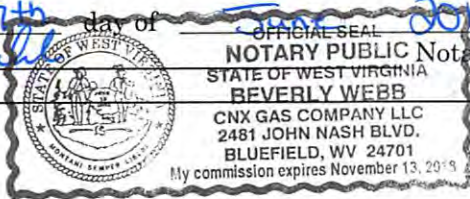
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 Co. LLC
 By: Chris J. Dore
 Its: Manager Gas Permitting Southern Region
 Address 2481 John Nash Blvd.
Bluefield, WV 24701
 Telephone 304-323-6500

Received
JUL 5 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 27th day of July 2013
Beverly Webb
My Commission Expires _____



07/19/2013

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 Co. LLC OP Code WC012001

Watershed Sandy Huff of Tug River Quadrangle Davy

Elevation 1575 ft. County McDowell District Sandy River

Description of anticipated Pit Waste: water associated with plugging of existing 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 flowback tank will be used in lieu of pit

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, 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 *Philip D. Lowe*

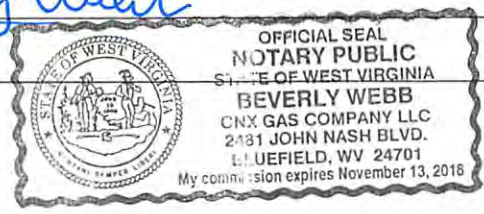
Company Official (Typed Name) Philip D. Lowe

Company Official Title Manager Gas Permitting Southern Region

Subscribed and sworn before me this 27th day of June, 2013

Beverly Webb

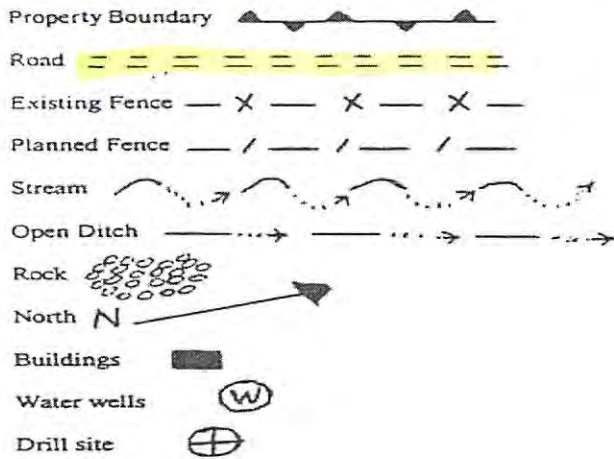
My commission expires _____



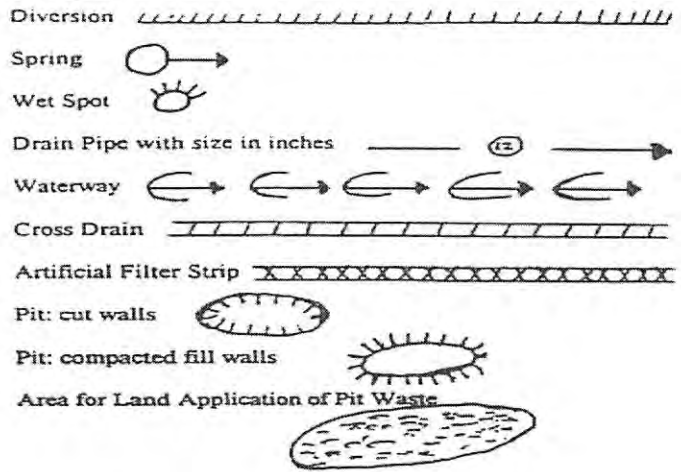
Notary Public JUL 5 2013

Received
Office of Oil and Gas
WV Dept. of Environmental Protection

07/19/2013



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 5.5
 Lime 3 Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch 1000 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
Tall Fescue	50	Tall Fescue	50
Ladino Clover	10	Lindino Clover	10

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

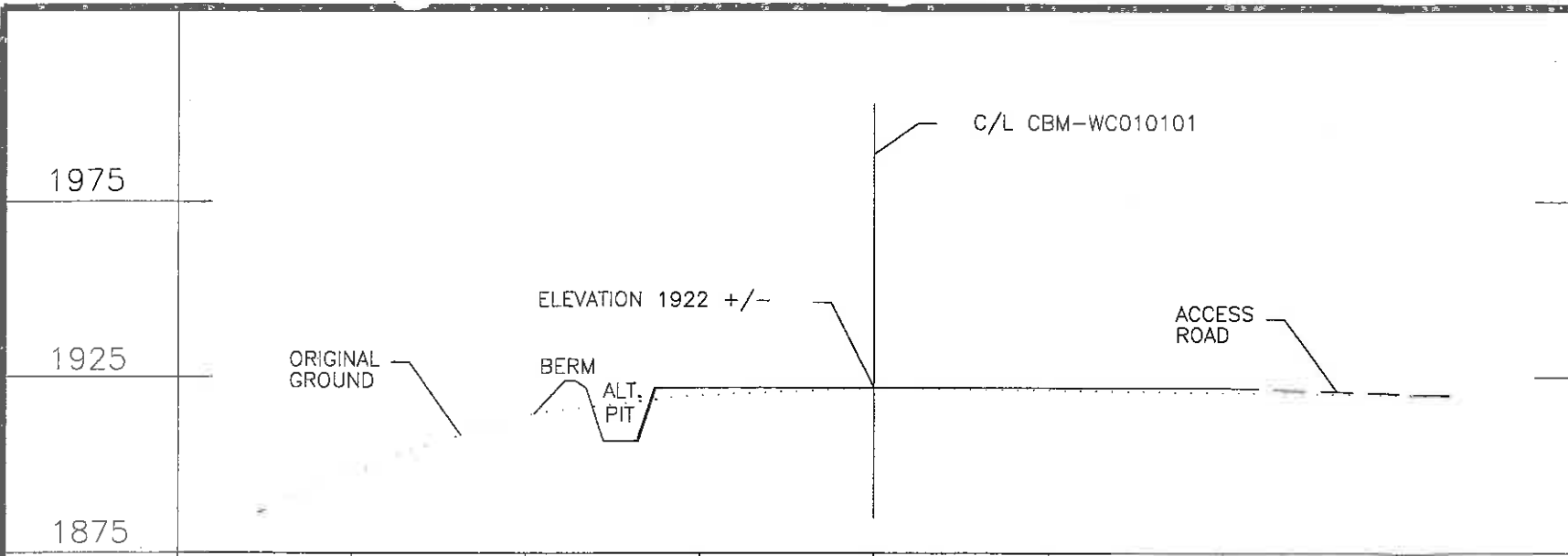
Plan Approved by: *Henry Kennedy*
 Comments: _____

Received

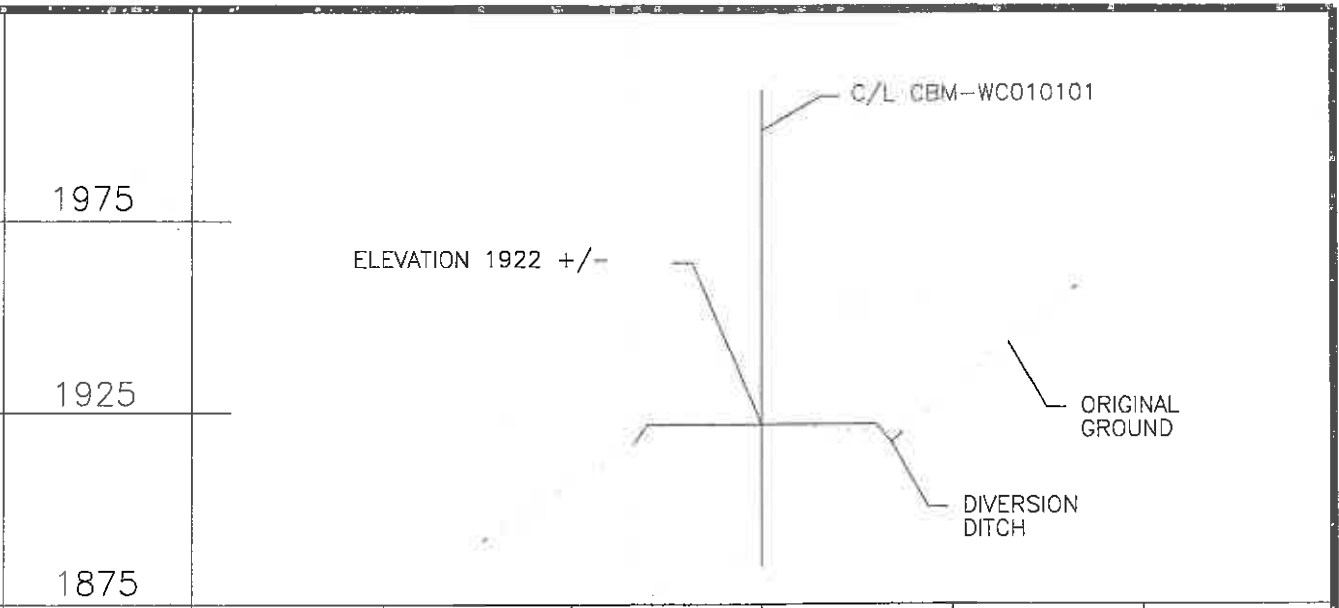
Title: *Inspector* Date: *6/19/13* JUL 5 2013

Field Reviewed? () Yes () No

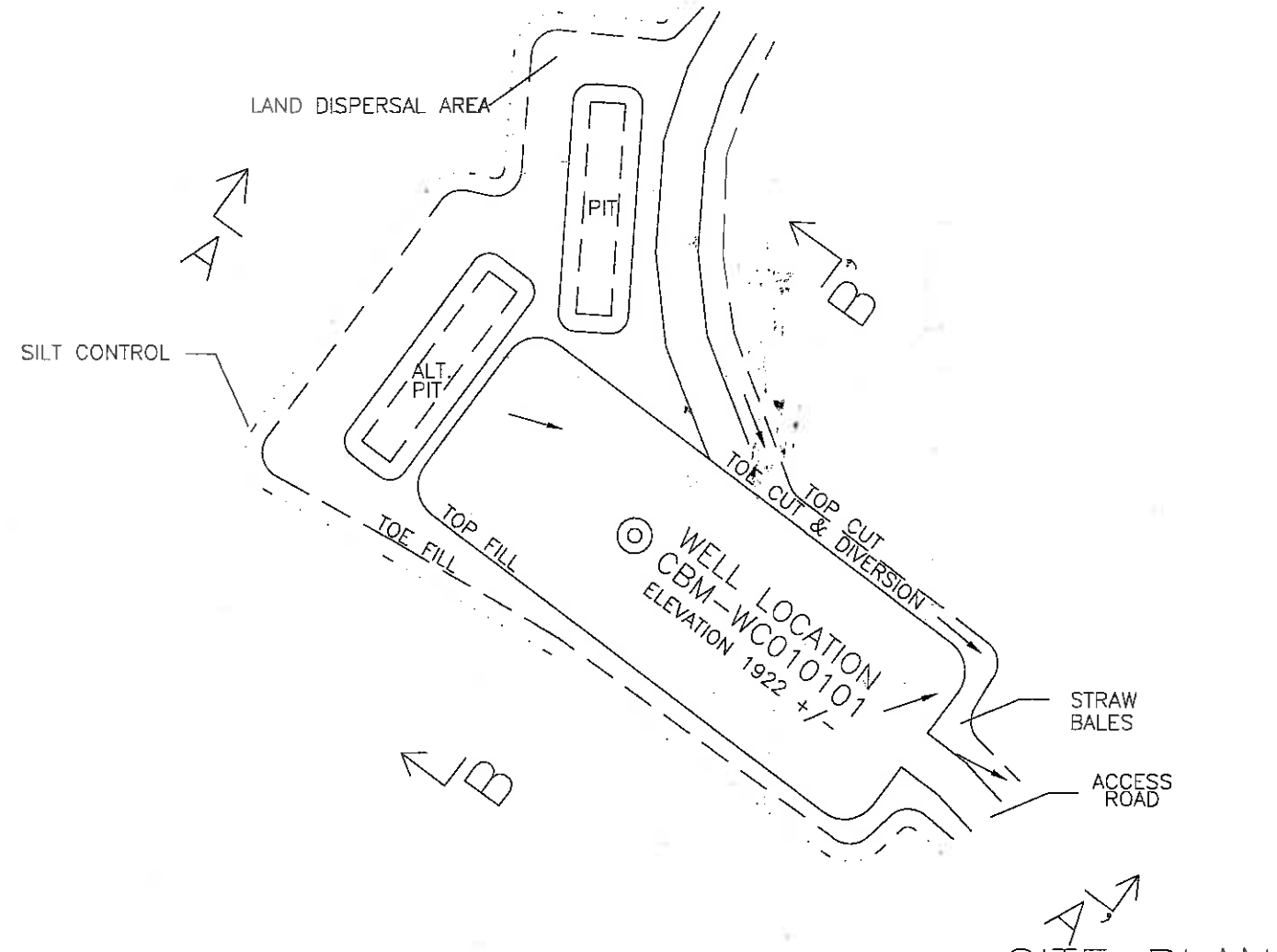
Office of Oil and Gas
 WV Dept. of Environmental Protection



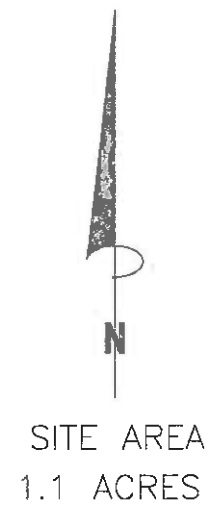
SECTION A -- A'



SECTION B -- B'



SITE PLAN



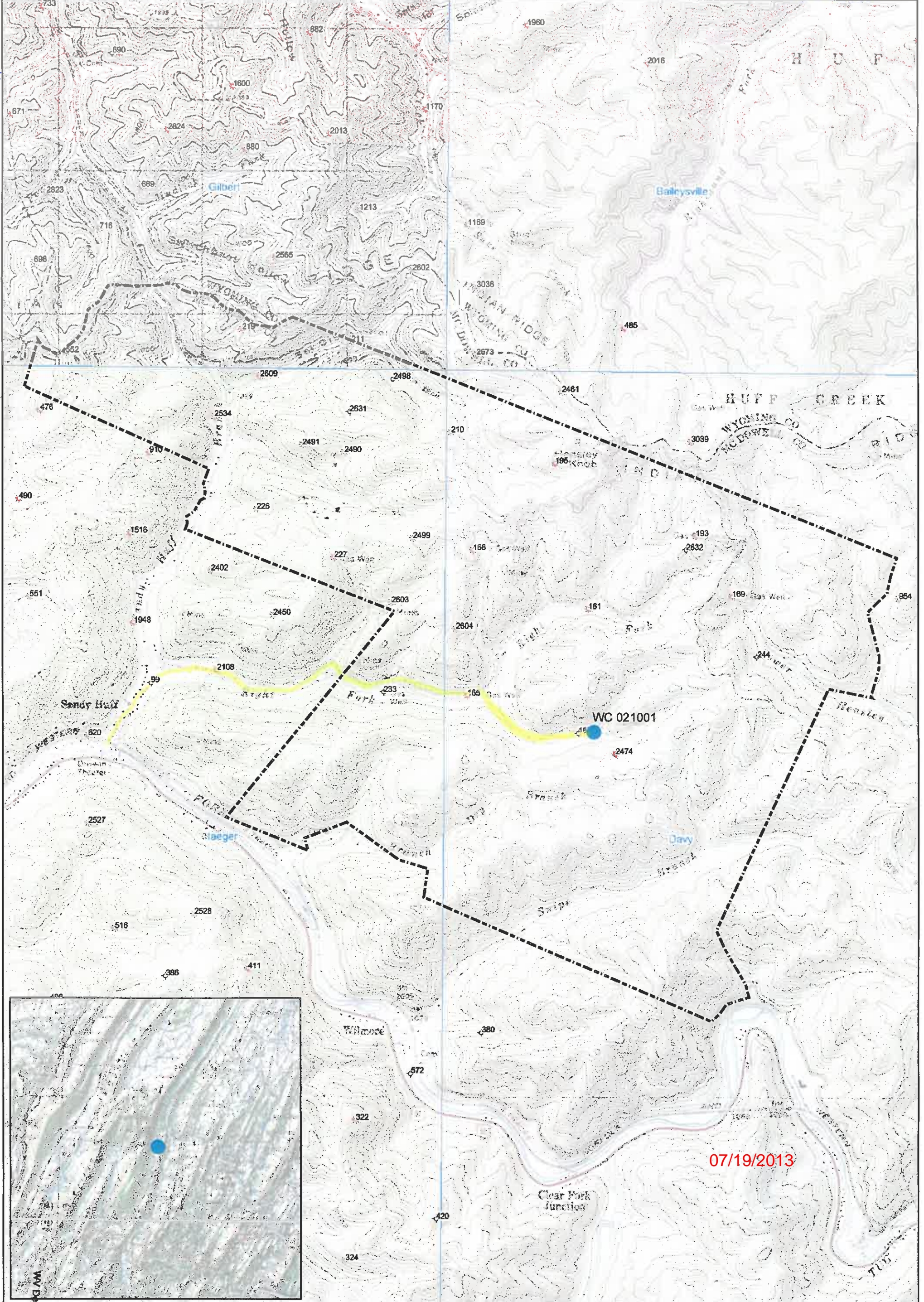
NOTE: SILT TO BE CONTROLLED BY BRUSH WINDROWS AND/OR SILT FENCE, ETC.

SITE PLAN & X-SECTIONS		
WELL NO. CBM-WC010101		
SCALE: 1" = 50'	CNX GAS COMPANY, LLC 2481 JOHN NASH BLVD. BLUEFIELD, WV 24701	DRAWN BY: ELT
DATE: 06/24/08		FILE: WC010101 EXHIBIT 3
D.R. PRICE ENGINEERING & LAND SURVEYING INC., PC P.O. BOX 270, SWORDS CREEK, VA. 24649 PHONE: (276) 991-1121 FAX: (276) 991-1423		Office of Oil and Gas WV Dept. of Environmental Protection
		EXHIBIT 3

07/19/2013

47-02631

47-02631



07/19/2013

Davy Quadrangle

Property Line

Well to be Plugged

Oil and Gas

Oil

Gas

Dry

Service

Other including Permits

Path: \\cnxgis\GIS\business_unit_support\gis_group\gg130\maps\20130322_well_plug_map_wc021001\20130322_well_plug_map_wc021001.mxd

This map was produced by the:
 CNX Land Resources, Inc. - GIS Group
 1000 Consol Energy Drive, Canonsburg PA 15317
 Please refer all questions about the data or the intent of this map, to the individuals located in the title block.

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 Land analysis is required to verify mineral holdings and to resolve mapping discrepancies. Land analysis may cause changes to the data presented herein. Title work should be conducted prior to performing any mineral or surface activity related to these properties.

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Location Map for WC 021001

1 in = 2,000 feet

Revision Date:	Drafted By: Robert Nutter Jr.
Number of Revisions: 0	Original Date: 3/22/2013

4702474F

WW-7
8-30-06



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

API: 47-047-02474 WELL NO.: WC021001
FARM NAME: Heartwood Forestland Fund III
RESPONSIBLE PARTY NAME: CNX Gas Company LLC
COUNTY: McDowell DISTRICT: Sandy River
QUADRANGLE: Davy, WV
SURFACE OWNER: Heartwood Forestland Fund III
ROYALTY OWNER: Heartwood Forestland Fund III
UTM GPS NORTHING: 4,148,034.086 meters
UTM GPS EASTING: 434,629.956 meters GPS ELEVATION: 480 meters 1574.9 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:

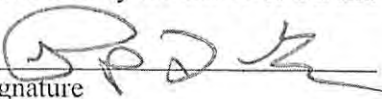
- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time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

Received

JUL 10 2013

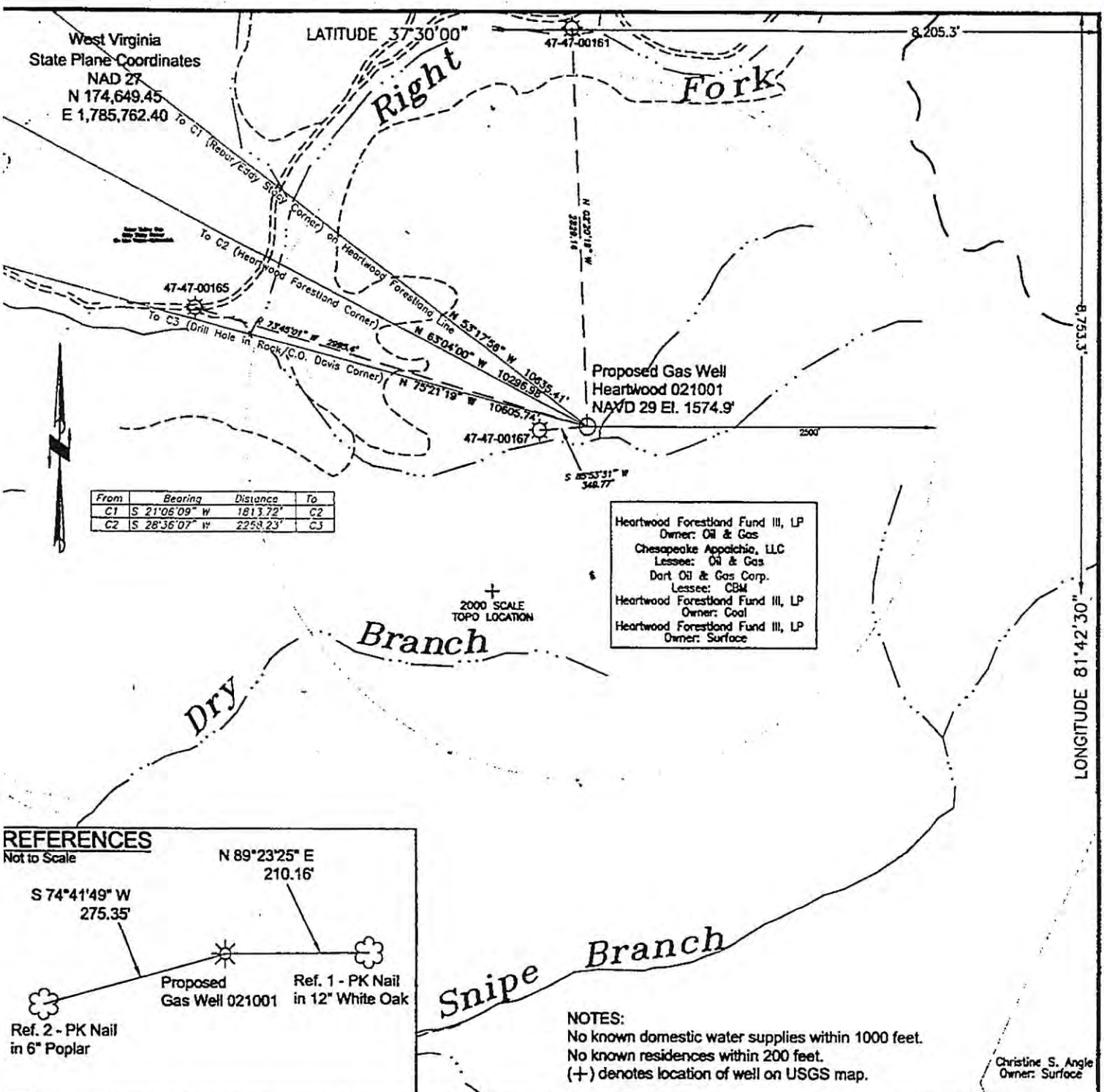
Office of Oil and Gas
WV Dept. of Environmental Protection

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.

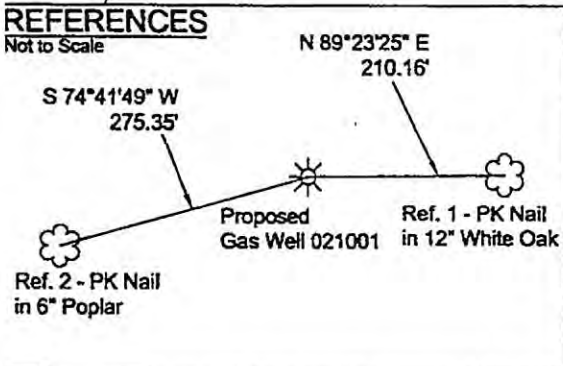

Signature

Manager
Title

7-10-2013
Date



Heartwood Forestland Fund III, LP
 Owner: Oil & Gas
 Chesapeake Appalachia, LLC
 Lessee: Oil & Gas
 Dart Oil & Gas Corp.
 Lessee: CBM
 Heartwood Forestland Fund III, LP
 Owner: Coal
 Heartwood Forestland Fund III, LP
 Owner: Surface

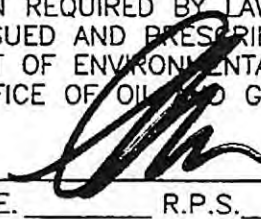


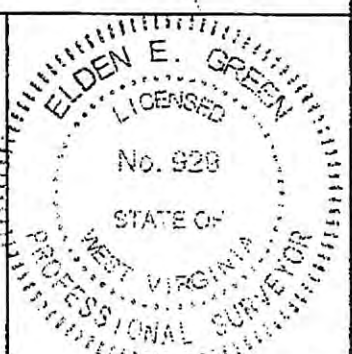
NOTES:
 No known domestic water supplies within 1000 feet.
 No known residences within 200 feet.
 (+) denotes location of well on USGS map.

Christine S. Angle
 Owner: Surface

File No. 001-634
 Drawing Name F:/001-634/Dwg
 Drawing Name Plat 021001
 Scale 1" = 1000'
 Minimum Degree of Accuracy 1:2500
 Proven Source of Elevation NGS BM P176 on Johnnycake Mountain

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, OFFICE OF OIL AND GAS.

(SIGNED) 
 R.P.E. _____ R.P.S. 929



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
CHARLESTON, WV

DATE July 25, 2007
 OPERATOR'S WELL NO. Heartwood 021001
 API WELL NO. 47 - 47 - 02474C

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


LOCATION: ELEVATION 1574.9' WATERSHED Unnamed Tributary of Right Fork of Sandy Huff Branch of Tug Fork
 DISTRICT Sandy River COUNTY McDowell
 QUADRANGLE Davy

SURFACE OWNER Heartwood Forestland Fund III, LP ACREAGE 3497.32
 ROYALTY OWNER Heartwood Forestland Fund III, LP LEASE ACREAGE 3497.32
 LEASE NO. 405-000003

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEANOUT AND REPLUG _____

TARGET FORMATION Pennsylvania Coal ESTIMATED DEPTH 2100'
 WELL OPERATOR Dart Oil & Gas Corporation DESIGNATED AGENT Jackie Hatfield
 ADDRESS 999 Executive Park Blvd, Suite 320 Kingsport, TN 37660 ADDRESS HC Box 98 Welch, WV 24801

Prepared By: 
 304-436-4195

McDowell 2474C

AUG 31 2007 19/2013