



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

November 04, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1700243, 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: 10579 (A-5)
Farm Name: SQUIRES, R. LEGGETT
API Well Number: 47-1700243
Permit Type: Plugging
Date Issued: 11/04/2013

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.

1) Date 10/08, 2013
2) Operator's
Well No. 10579
3) API Well No. 47-017 - 00243

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 ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1,168.11 Watershed Cabin Run
District Central 01 County Doddridge 17 Quadrangle Oxford 526

6) Well Operator CNX Gas Company LLC 7) Designated Agent Jeremy Jones
Address P.O. Box 1248 Address P.O. Box 1248
Jane Lew, WV 26378 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified Name Douglas Newlon 9) Plugging Contractor
Address 4060 Dutchman Road Name See Attached List
McFarlan, WV 26148 Address _____

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

1. Load hole with gel and circulate @ 2200'
2. Spot 300' cement plug in 5.5" csg 2200'-1900'
3. Cut and pull 5.5" csg @ 1850'
4. Gel hole
5. Spot 100' cmt plug over cut 1850'-1750'
6. Spot 100' cmt plug over hole change 1400'-1300'
7. Spot 100' cmt plug over hole change 750'-650'
8. Spot 100' cmt plug to surface 100'-0'. 9. Set monument

DCW
10-16-2013
Received
OCT 18 2013

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 Douglas Newlon Date 10-16-2013

1700243P

PLUGGING PLAN

CSG CSG
SIZE SET

10 695 Pulled

COALS None

8.625 1357 Pulled

7 2005 Pulled

5.5 2190

2275

TD

WELL NUMBER
10579

WELL NAME
Leggett

CEMENT TOPS

Csg	TOP, FT
5.5	2140

WORK ORDER

1	Load hole w/ gel and circulate @ 2200'
2	Spot 300' cmt plug in 5.5" csg 2200' - 1900'
3	Cut and pull 5.5" csg @ 1850'
4	Gel hole
5	Spot 100' cmt plug over cut 1850' - 1750'
7	Spot 100' cmt plug over hole change 1400' - 1300'
8	Spot 100' cmt plug over hole change 750' - 650'
9	Spot 100' cement plug to surface 100' - 0'
10	set monument

HOLE	BBL/FT	CU.FT./FT	100' plug, sks cmt(25% excess)
12	0.13987	0.7854	83
10	0.09714	0.5454	58
8	0.06217	0.3491	37
6.5	0.04104	0.2304	24
5.5	0.02938	0.1650	17
4.5	0.01967	0.1104	12
2.375" TBG	0.00387	0.0217	2

CEMENT PLUGS			
BOTTOM	TOP	HOLE SIZE	CMT, sks
2200	1900	5.5	52
1850	1750	6.5	24
1400	1300	8	37
750	650	10	58
100	0	12	83
CLASS A CEMENT			TOTAL SKS 255

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WV Dept. of Environmental Protection

1700243P

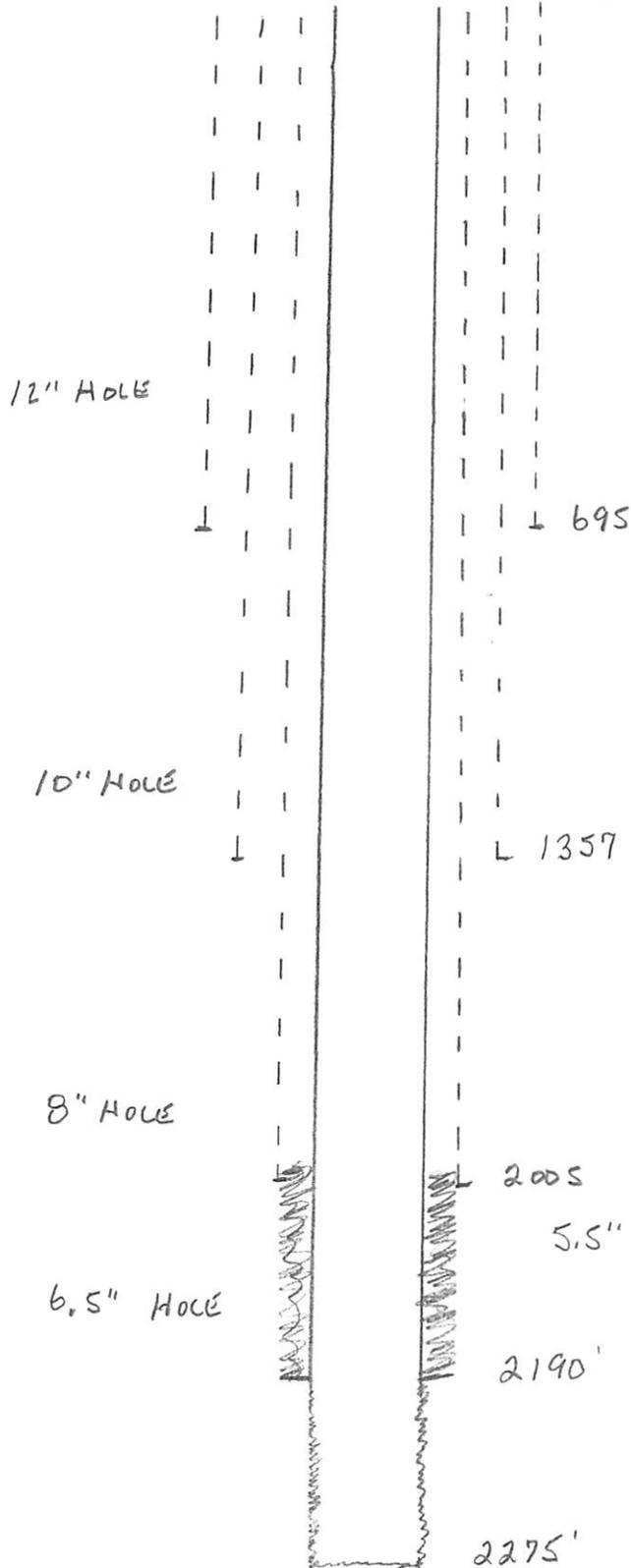
WN 10579

PERMIT 47-17-0243

ELEV. 1147

NO COAL

WATER 2000' ?



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WV Dept. of Environmental Protection

Attachment – Form WW-4B for Well 10579:

Potential Plugging Contractors:

Yost Drilling
313 Steel Hill Rd.
Mount Morris, PA 15349

Viking Well Service
8113 Sissonville Drive
Sissonville, WV 25320

Coastal Drilling
130 Meadow Ridge Rd, STE 24
Mount Morris, PA 15349

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WV Dept. of Environmental Protection



17002437

Cops

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

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

Quadrangle HOLBROOK
Permit No. DOD-243

Company Allegheny Land & Mineral Co.
Address Clarksburg, WV 26301
Farm Ralph Leggett Acres 187
Location (waters) _____
Well No. A-5 Squires Hrs. Elev 1175'
District Central County Doddridge
The surface of tract is owned in fee by _____
Mr. & Mrs. Ralph Leggett
Address Oxford, WV
Mineral rights are owned by Squires Hrs. & Ralph Leggett
Address _____
Drilling Commenced March 11, 1958
Drilling Completed May 5, 1958
Initial open flow 134 M cu. ft. _____ bbls.
Final production 300 M cu. ft. per day _____ bbls.
Well open _____ hrs. before test 425# RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
3 10"	695'	0	
9 5/8			
8 5/8	1357'	0	
7	2005'	0	
5 1/2	2190'	2190'	- 10 sacks
4 1/2			
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			50	170		
Sand			170	205		
Lime			205	285		
Red Rock			285	300		
Slate & Shell			300	460		
Red Rock			460	545		
Sand			545	565		
Slate			565	600		
Lime			600	620		
Red Rock			620	710		
Sand			710	720		
Slate & Shell			720	734		
Sand			734	770		
Slate & Shell			770	1230		
Sand			1230	1245		
Slate & Shell			1245	1510		
Sand			1510	1552		
Slate			1552	1580		
Lime			1580	1620		
Slate			1620	1645		
Slate & Shell			1645	1670		
Sand			1670	1735		
Slate			1735	1835		
Sand			1835	1865		

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OCT 18 2013
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of Environmental Protection

* Indicates Electric Log tops in the remarks section.

(over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Slate & Shell			1865	1970		
Maxson Sand			1970	2010		
Lime			2010	2068		
Slate			2068	2080		
Little lime			2080	2105		
Pencil Cave			2105	2108		
Big Lime			2108	2205		
Sand			2205	2245		
Break			2245	2247		
Squaw Sand			2247	2256		
Shale			2256	2275		
		total depth		2275		

Received

OCT 18 2013

Office of Oil and Gas
 WV Dept. of Environmental Protection

Date

19

APPROVED

General

By

Title

1706243P

WW-4A
Revised 6-07

1) Date: 10/08/2013
2) Operator's Well Number 10579

3) API Well No.: 47 - 017 - 00243

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

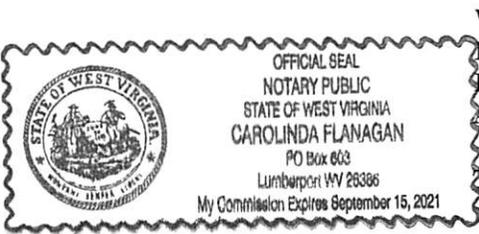
4) Surface Owner(s) to be served:	✓	5) (a) Coal Operator
(a) Name <u>Jan L. and Phyllis A. Grace</u>		Name <u>None of Declaration</u>
Address <u>236 24th Street</u>		Address _____
<u>Des Moines, IA 50265</u>		_____
(b) Name _____		(b) Coal Owner(s) with Declaration
Address _____		Name <u>None of Declaration</u>
_____		Address _____
_____		_____
(c) Name _____		Name _____
Address _____		Address _____
_____		_____
6) Inspector <u>Douglas Newlon</u>		(c) Coal Lessee with Declaration
Address <u>4060 Dutchman Road</u>		Name <u>None of Declaration</u>
<u>McFarlan, WV 26148</u>		Address _____
Telephone <u>304-932-8049</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: Jeremy Jones *[Signature]*
 Title: Designated Agent - General Manager, WV Gas Operations
 Address P.O. Box 1248
Jane Lew, WV 26378
 Telephone 304-884-2009

Received

Subscribed and sworn before me this 10TH day of OCT. 2013
[Signature] Notary Public OCT 18 2013
 My Commission Expires 09/15/2021

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.

Office of Oil and Gas
WV Dept. 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 Cabin Run Quadrangle Oxford

Elevation 1168' County Doddridge District Central

Description of anticipated Pit Waste: Fluids associated with the plugging of existing gas wells

Will a synthetic liner be used in the pit? Yes _____ 20 mil.

*DCM
10-16-2013*

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- 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
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 *Jeremy Jones*

Company Official (Typed Name) Jeremy Jones

Company Official Title Designated Agent - General Manager, WV Gas Operations

Received

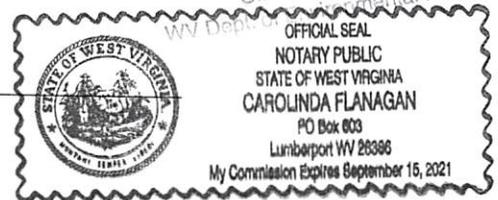
Subscribed and sworn before me this 10th day of OCT, 2013

Carolina Flanagan

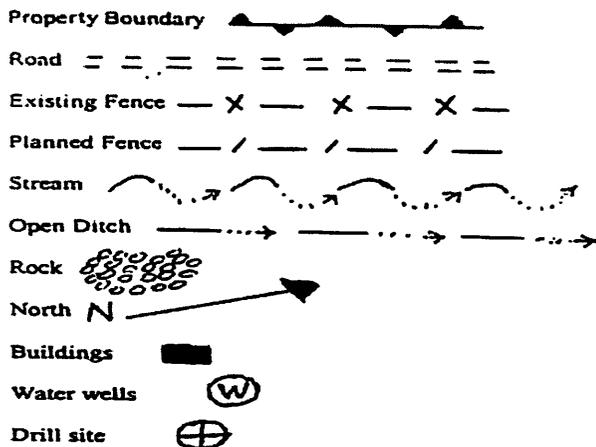
Notary Public

OCT 18 2013

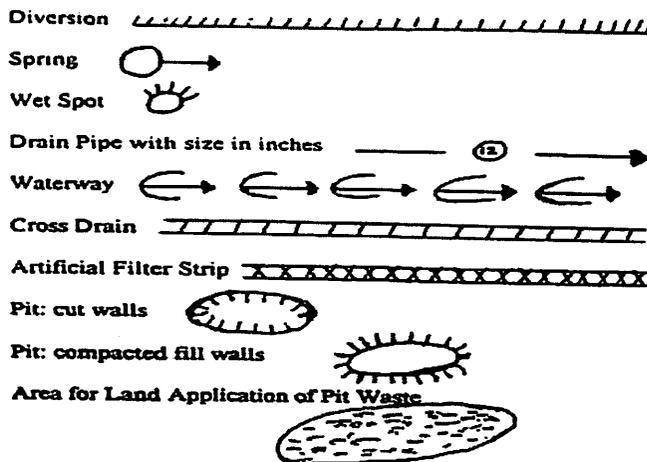
Office of Oil and Gas
WV Department of Environmental Protection



My commission expires 9/15/2021



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 55.83 Prevegetation pH 6.5
 Lime according to pH test Tons/acre or to correct to pH 7.0
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre
Orchard Grass	25
Birdsfoot Trefoil	15
Ladino Clover	10

Seed Type	Area II lbs/acre
Orchard Grass	25
Birdsfoot Trefoil	15
Ladino 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: Douglas Newber

Comments: Install pits reclaim as WV Dep regulations

Received

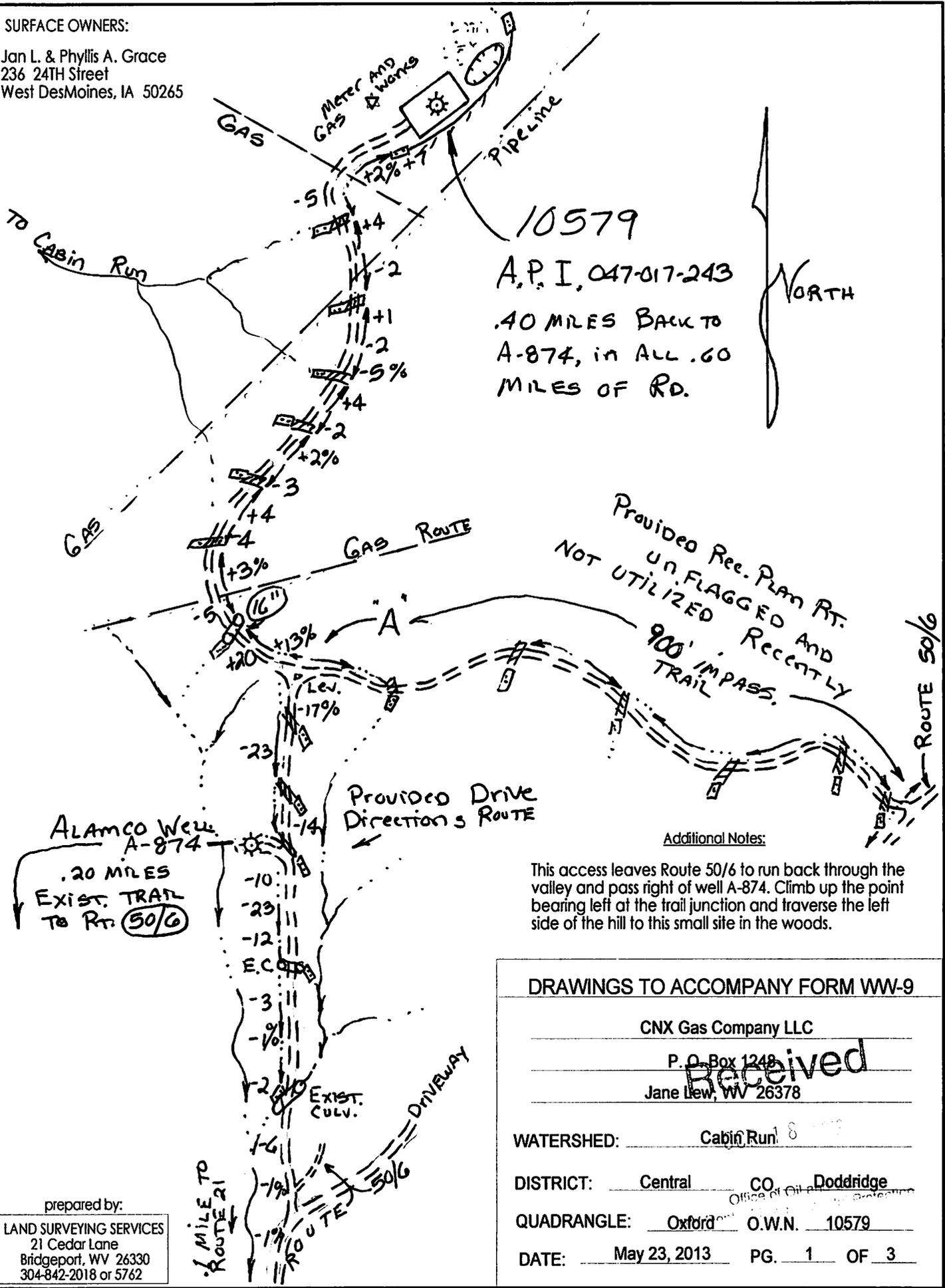
Title: Oil & Gas Inspector

Date: 10-16-2013

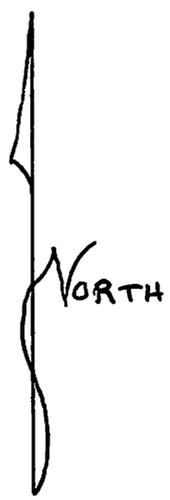
OCT 18 2013

Field Reviewed? () Yes (/) No

SURFACE OWNERS:
Jan L. & Phyllis A. Grace
236 24TH Street
West Des Moines, IA 50265



10579
A.P.I. 047-017-243
.40 MILES BACK TO
A-874, in ALL .60
MILES OF RD.



Provided Rec. Plan Rt.
UNFLAGGED AND
NOT UTILIZED Recently
900' IMPASS.
TRAIL

Provided Drive
Directions ROUTE

Additional Notes:

This access leaves Route 50/6 to run back through the valley and pass right of well A-874. Climb up the point bearing left at the trail junction and traverse the left side of the hill to this small site in the woods.

ALAMCO Well
A-874

.20 MILES
EXIST. TRAIL
TO RT. 50/6

- 10
- 23
- 12
- E.C. TOP
- 3
- 9%
- 2.0%
- 1.6%
- 1.9%
- 1.7%

EXIST.
CULV.

DRIVEWAY
50/6

1 MILE TO
ROUTE 21

prepared by:

LAND SURVEYING SERVICES
21 Cedar Lane
Bridgeport, WV 26330
304-842-2018 or 5762

DRAWINGS TO ACCOMPANY FORM WW-9

CNX Gas Company LLC

P. O. Box 1248

Jane Lew, WV 26378

Received

WATERSHED: Cabin Run

DISTRICT: Central CO Doddridge
Office of Oil and Gas Enforcement

QUADRANGLE: Oxford O.W.N. 10579

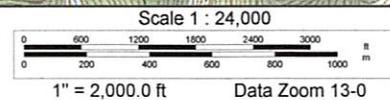
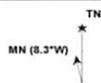
DATE: May 23, 2013 PG. 1 OF 3



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www.delorme.com



1700243A



Carolinda Flanagan
Permitting Analyst
P.O. Box 1248
Jane Lew, WV 26378
(304) 884-2057



October 8, 2013

Jan L. and Phyllis A. Grace
236 24th Street
Des Moines, IA 50265

**Re: Well # 10579; API # 47-017-00243
Central District, Doddridge County**

To Whom It May Concern:

CNX Gas Company LLC is in the process of applying for a permit to **Plug** a well on the above noted lease of which you are the Surface/Coal Owner.

Enclosed are copies of the Notice and Application, Permit and the Location Plat.

Please note the instructions on the Surface/Coal Owner Waiver form. If you have no objection to the **Plugging** being done, please follow instructions as they are given, sign and date the waiver and return it to us in the self addressed envelope.

Sincerely,


Carolinda Flanagan

Enclosures

Received

OCT 18 2013

Office of Oil and Gas
WV Dept. of Environmental Protection