



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 09, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4701729, 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: 6112
Farm Name: ALAWEST, INCORPORATED
API Well Number: 47-4701729
Permit Type: Plugging
Date Issued: 07/09/2014

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.

4701729P

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. 6112
3) API Well No. 47-047-01729

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 1125 ft. Watershed Clear Fork
District Sandy River County McDowell Quadrangle Davy, WV

6) Well Operator CNX Gas Company 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 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 work order procedures

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MAY 30 2014

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 5/22/14

07/11/2014

API 47-47-01729 Plugging Procedure

1. Verify total depth 3747'.
2. Run free-point survey on 4-1/2" 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 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 7" casing shoe. (Approx. 808') Pull remaining 4-1/2" out of well.
6. Bond log 7" casing.
7. Run tubing to previous cement top (808'). Cement across the 7" shoe to a minimum of 50' above shoe, bringing cement top to approximately 50' below the 7" free-point or to surface, whichever is necessary.
8. If necessary, cut and pull free 7" casing.
9. Repeat bond log and cutting procedures for 9-5/8" if 7" is cut and pulled.
10. Cement from 50' below 9-5/8" 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.

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Wy Department of
Environmental Protection
JKK

6112

Date
3/20/03

47-47-01729

12 3/4" @ 20'

9 5/8" @ 165' - 60 SKS Cement

7" 17#kt @ 708' - 200 SKS Cement

4 1/2" 9.5#kt @ 3747' - 135 SKS Cement

DTD @ 3758'

Upper Big Lime 2512' - 2526' 14 Holes

Lower Big Lime 2821' - 2841' 12 Holes

Beica 3546' - 3556' 20 Holes

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MAY 30 2014
WV Department of
Environmental Protection

4701729 P

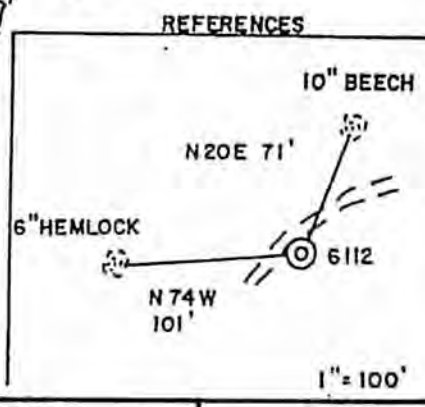
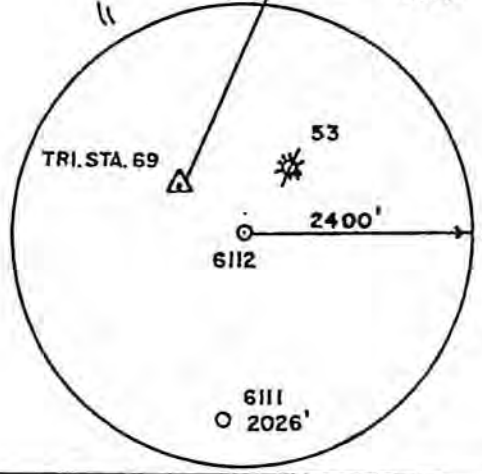
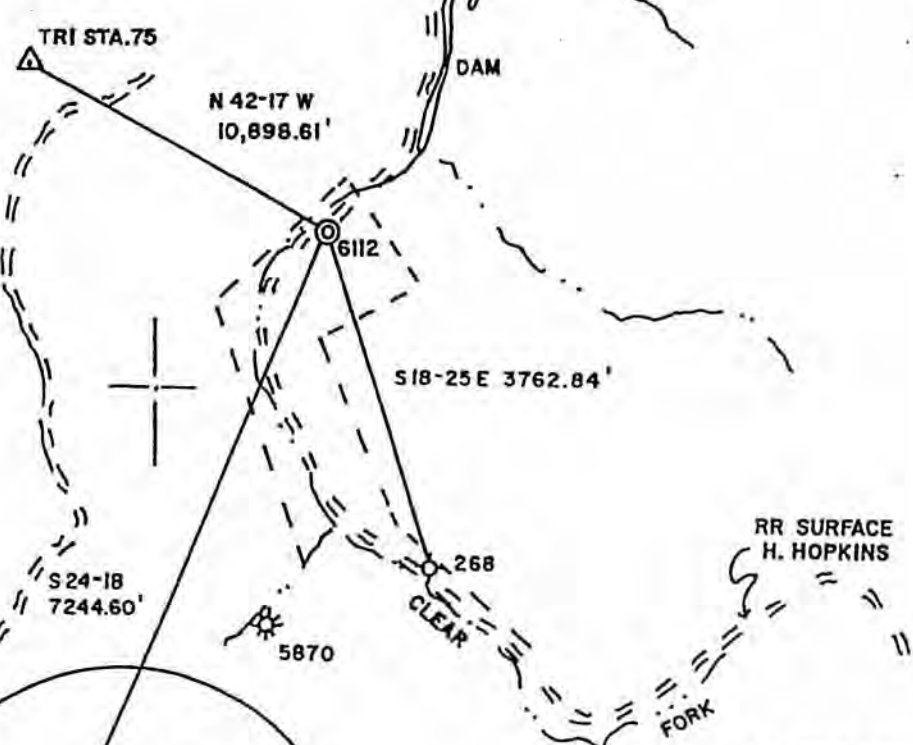
9,860'

LATITUDE 37-27-30

WELL NO. 6112

NAD 27 WV SOUTH
N 160512.061
E 1784390.670

OLGA COAL COOR.
N 58814.40
E 97739.03



NORTH

LONGITUDE 81-42-30
7,150'

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION TOP OF KNOB 2106'

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) M. Allen [Signature]
R. P. E. _____ L. L. S. 959

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6
(8-78)



Division of Environmental Protection
Office of Oil & Gas

DATE OCTOBER 20 02
OPERATOR'S WELL NO. 6112
API WELL NO. 47 - 47 - 01729
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)
LOCATION: ELEVATION 1098' WATER SHED CLEAR FORK
DISTRICT SANDY RIVER COUNTY MCDOWELL
QUADRANGLE DAVY 7.5'

SURFACE OWNER ALAWEST, INC. ACREAGE 183.35
OIL & GAS ROYALTY OWNER ALAWEST, INC. LEASE ACREAGE 29,494
LEASE NO. 61108

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 ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION BEREA ESTIMATED DEPTH 3850'

WELL OPERATOR DOMINION EXPLORATION & PRODUCTION, INC. DESIGNATED AGENT RODNEY BIGGS
ADDRESS ONE DOMINION DRIVE PO BOX 1248 JANE LEW, WV 26378 ADDRESS ONE DOMINION DRIVE PO BOX 1248 JANE LEW, WV 26378

MCDOWELL 1729

4701729 A

WR-35
Rev (5-01)

DATE: 05/13/03
API #: 47 047 01729

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

MT

Well Operator's Report of Well Work

Farm name: Alawest, Incorporated Operator Well No.: 6112

LOCATION: Elevation: 1098' Quadrangle: Davy 7.5

District: Sandy River County: McDowell
Latitude: 7130 Feet South of 37 Deg. 27 Min. 30 Sec.
Longitude 6950 Feet West of 81 Deg. 42 Min. 30 Sec.

Company: Dominion Exploration & Production, Inc

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P O Box 1248 Jane Lew, WV 26378				
Agent: Rodney J. Biggs				
Inspector: Ronald Scott				
Date Permit Issued: 12/02/2002				
Date Well Work Commenced: 03/10/03	12 3/4"	20'	20'	Sand In
Date Well Work Completed: 03/20/03				
Verbal Plugging: N/A	9 5/8"	165'	165'	60 sks
Date Permission granted on: N/A				
Rotary X Cable Rig	7"	708'	708'	200 sks
Total Depth (feet): 3758'				
Fresh Water Depth (ft.): N/A	4 1/2"	3747'	3747'	135 sks
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 70-71', 130-131', 638-643'				

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Permitting
JUL 21 2003
WV Department of
Environmental Protection

OPEN FLOW DATA

Berea 3546-3556'
Producing formation Lower B Lime Pay zone depth (ft) 2821-2841'
Gas: Initial open flow Trace MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1.04M MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 650 psig (surface pressure) after 12 Hours

Second producing formation Upper B Lime Pay zone depth (ft) 2512-2526'
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

*Comingled

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 WELL BORE.

07/11/2014

McDow

612

4701729P

03/20/2003 FRACED AS FOLLOWS:

BEREA, 3546 - 3556', 20 HOLES, 75Q FOAM FRAC, TOT SAND 25,487#, 111 BBL, 250
 MSCFN2, BD 2910#,
 AVG RATE 20 BPM, AVG PRESS 2265#, ISIP 2010#
 LOWER B LIME, 2821 - 2841', 12 HOLES, 2000 GAL 28% HCL, 117 BBLs TW, 29,891
 SCFN2, BD 3190#, AVG
 RATE 12 BPM, AVG PRESS 2195#, ISIP 1270#
 UPPER B LIME, 2512 - 2526', 14 HOLES, 2000 GAL 28% HCL, 122 BBLs, BD 1740#,
 AVG RATE 14 BPM, AVG
 PRESS 2295#, ISIP 1720#.

Overburton	0	15
Sandstone	15	70
Coal	70	71
Sandy Shale	71	130
Coal	130	131
Sandstone	131	450
Sandy Shale	450	638
Coal	638	643
Sandstone	643	825'

FORMATION TOPS

U Ravenscliff	825	903
L Ravenscliff	1253	1313
Avis Lime	1364	1412
U Maxton	1720	1875
M Maxton	1896	1955
L Maxton	2135	2174
Little Lime	2241	2480
Big Lime	2480	2863
Price FM	2863	3460
Sunbury	3460	3512
Berea Sand	3512	3585
LTD		3760'

Handwritten signature

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MAY 30 2014

WV Department of
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4701729P

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number _____
6112
3) API Well No.: 47 - 047 - 01729

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>Alawest, Inc.</u>	Name <u>none</u>
Address <u>PO Box 920</u>	Address _____
<u>Welch, WV 24801</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Alawest, Inc.</u>
_____	Address <u>PO Box 920</u>
_____	<u>Welch, WV 24801</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>none</u>
<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: [Signature]
 Its: Attorney-in-fact
 Address 2481 John Nash Blvd
Bluefield, WV 24701
 Telephone 304-323-6568

Subscribed and sworn before me this 29th day of May 2014
[Signature] Notary Public

My Commission Expires _____
 Oil and Gas Privacy Notice

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

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 Office of Oil and Gas
 MAY 20 2014
 WV Department of
 Environmental Protection

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.

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

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Sent To: Ms. Kay Holtsclaw
 WVDEP Office Oil and Gas
 601 57th Street, SE
 Charleston, WV 25304

PS Form 3800, June 2009

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 P.O. Box 309
 Prosperity, WV 25909

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Sent To: Gary Kennedy
 P.O. Box 268
 Nimitz, WV 25978

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Sent To: Alawest, Inc.
 P.O. Box 920
 Welch, WV 24801

PS Form 3800, June 2009

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 WV Department of
 Environmental Protection
 MAY 30 2014

4701729P

4701729A

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 047 - 01729
Operator's Well No. 6112

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 Clear Fork Quadrangle Davy, WV

Elevation 1125 ft. County McDowell District Sandy River

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

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 pumper truck with flowback tank will be used in lieu of a pit. [Signature])

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 [Signature]

Company Official (Typed Name) Ed Fanning

Company Official Title Supervisor

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Office of Oil and Gas
MAY 30 2014

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Environmental Protection

Subscribed and sworn before me this 29th day of May, 20 14

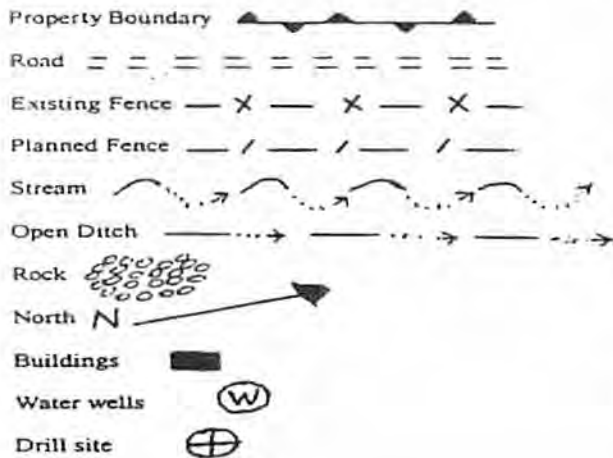
[Signature]

Notary Public

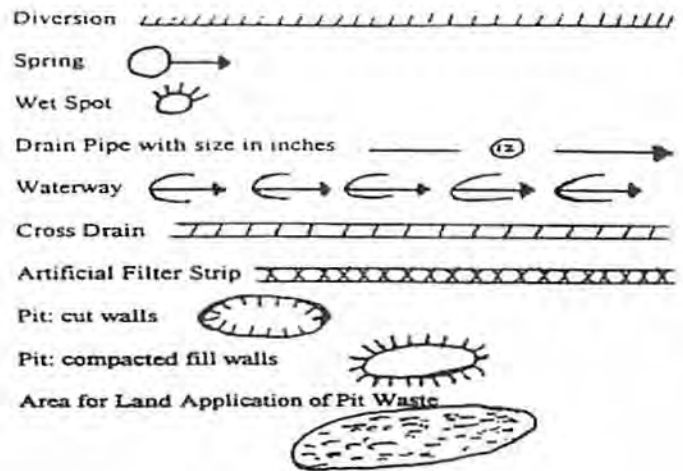
My commission expires _____

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

07/11/2014



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

Seed Type	Area I	lbs/acre	Seed Type	Area II	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: *John Kennedy*

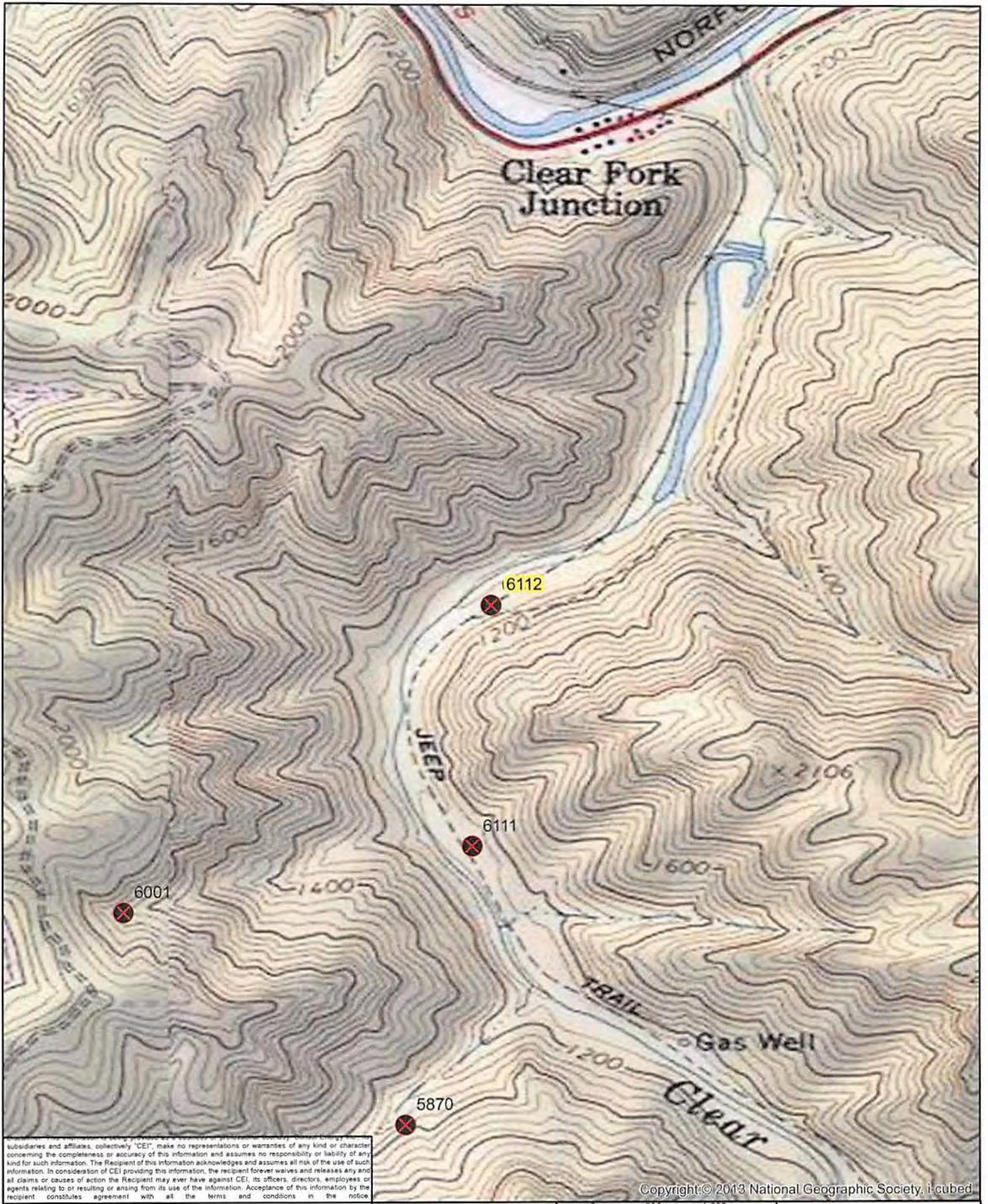
Comments: _____

Title: *Inspector*

Date: *5/22/14*

Field Reviewed? () Yes () No

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	Date: 1/24/2014 Revisions:	Prepared By: KK Approved By: BS
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WW-7
8-30-06



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

API: 47-047-01729 WELL NO.: 6112

FARM NAME: Alawest, Inc.

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: McDowell DISTRICT: Sandy River

QUADRANGLE: Davy, WV

SURFACE OWNER: Alawest, Inc.

ROYALTY OWNER: Alawest, Inc.

UTM GPS NORTHING: 4,143,787 m

UTM GPS EASTING: 434,325 m GPS ELEVATION: 351 m

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 X

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

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5/29/14
Date