



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 10, 2014

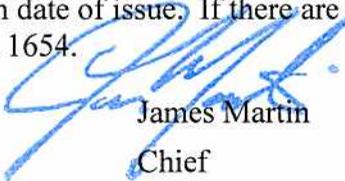
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10301954, 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: PGX-1
Farm Name: WILLEY,DAVID
API Well Number: 47-10301954
Permit Type: Plugging
Date Issued: 11/10/2014

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B
(Rev. 6-07)

1) Date: August 26, 2014
2) Operator's Well Number Willey, David #PGX-1
3) API Well No.: 47 - 103 - 01954
State County Permit

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

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 766' Watershed Fishing Creek
District Grant County Wetzel Quadrangle Pine Grove, WV 7.5'

6) Well Operator CNX Gas Company, LLC
Address 200 Evergreene Drive
Waynesburg, PA 15370

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

8) Oil and Gas Inspector to be notified
Name Derek Haught
Address P.O. Box 85
Smithville, WV 26178

9) Plugging Contractor
Name Skyline Contracting
Address P.O. Box 663
Oakwood, VA 24631

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

Please see attached pages.

RECEIVED
Office of Oil and Gas
SEP 3 2014
WV Date 9-15-14
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 [Signature]

COAL BED METHANE

David Willey PGX-1P.N.: 47-103-01954Grant DistrictWetzel CountyLocation: Pine Grove Quad Northing 395,806

Easting 1,681,703

Elevation: 766' GLMPROPOSED PLUG & ABANDONMENT PROCEDURES

★ MUST USE EXPANDING CEMENT PER WV CODE 356SR 3-8.
gwm

1. Blow the well down. Pump 10 bbl of water into the well to kill the well.
2. Allow the well to sit for 12-18 hours to allow bubbles to dissipate in water.
3. Rig up Wireline Company and run a Gamma Ray, Cement Bond, CCL log.
4. Perforate any areas where cement bond is not indicated.

Note: An attempt will be made to cut and pull casing but it appears both casing strings were cemented back to surface, and the casing cannot be removed.

5. Rig up a service rig over the well. Install a 4 ½" JU well control head onto the 4 ½" casing collar at surface. Connect the JU Head to a flowline directed to a portable steel pit to catch any fluids circulated from the well.
6. Run 536' of 2 3/8" 8rd EUE tubing in the well with the tubing equipped with a plain collar on bottom. Tag bottom with the tubing and pick it up approximately 2'-3' off of bottom.
7. Rig up Cementing Company. Break circulation through tubing w/t fresh water. Mix and pump 40 sx (47 cubic ft) of regular Class A Portland Cement containing 2% CaCl₂.
8. Circulate cement to surface. Pull all the tubing from the well.
9. Top off the hole as needed for the displacement of the tubing.
10. Remove the casing head and JU head from the 4 ½" casing.
11. Install a 7" pipe monument with the API number welded on the side of the monument.
14. Rig down the service rig, empty and dispose of fluids captured in the portable steel pits. Remove from the site.
15. Grade, seed and mulch the location as required.

DMH
9-15-14

10301954P

WR-35
Rev (5-01)

DATE:
API #: 47-10301954

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

Well Operator's Report of Well Work

Farm name: David Willey Operator Well No.: PGX-1
LOCATION: Elevation: 766 Quadrangle: Pine Grove 7.5'
District: Grant County: Wetzel
Northing: 395806
Easting: 1681703

Company: Dynatec Energy Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>2200 South 4000 West</u>	<u>10 3/4"</u>	<u>40'</u>	<u>40'</u>	<u>5</u>
<u>Salt Lake City, UT 84120</u>	<u>7"</u>	<u>309'</u>	<u>309'</u>	<u>39</u>
Agent: <u>Mr. Mike Bernard</u>	<u>4 1/2"</u>	<u>500'</u>	<u>500'</u>	<u>30</u>
Inspector: <u>M. Underwood</u>				
Date Permit Issued: <u>June 13, 2003</u>				
Date Well Work Commenced: <u>July 18, 2003</u>				
Date Well Work Completed: <u>May 14, 2004</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rlg				
Total Depth (feet): <u>536.8</u>				
Fresh Water Depth (ft.): <u>Unknown</u>				
Salt Water Depth (ft.): <u>not encountered</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>414, 505.4</u>				

OPEN FLOW DATA - No open flow.

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

Signed: [Signature]
By: Michael R BERNARD
Date: Aug 2, 2004

RECEIVED
Office of Oil & Gas
Office of Chief
AUG 05 2004
WV Department of
Environmental Protection

WET 1954

1.) Perforated intervals, fracturing or stimulating, physical change, etc.

None.

2.) Well log, geological record

From	To	Rock type	Comment
0	40	soil, clay	overburden
40	414	shale, siltstone	no core
414.0	416.5	coal	Sewickley
416.5	505.4	shale	gray
505.4	516.9	coal	Pittsburgh
516.9	536.8	shale	gray

RECEIVED
Office of Oil and Gas

SEP 19 2011

West Virginia Department of
Environmental Protection

WW-4A
(Rev. 6-07)

1) Date: August 25, 2014
2) Operator's Well Number Willey, David #PGX-1
3) API Well No.: 47 - 103 - 01954
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

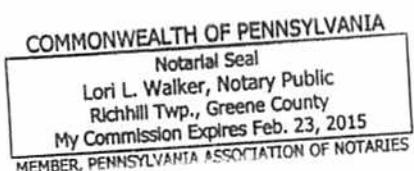
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Esther R. Coen</u>	Name _____
Address <u>HC 62 Box 38</u>	Address _____
<u>Pine Grove, WV 26419</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>CNX RCPC LLC</u>
_____	Address <u>1000 Consol Energy Drive</u>
_____	<u>Canonsburg, PA 15317</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name _____
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	_____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT: 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 play (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 reverse 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 the 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 register 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: Erika Whetstone
 Its: Permitting Supervisor
 Address 200 Evergreene Drive
Waynesburg, PA 15370
 Telephone 724-6271492

Subscribed and sworn before me this 25th day of August, 2014
 My Commission Expires February 23, 2015
 Notary Public Lori L. Walker
 County of Greene



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 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 Officer at depprivacyofficer@wv.gov.

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WINNEBAGO PA

Sent To

Derek Hought
Street, Apt. No.,
or PO Box No. P.O. Box 85
City, State, ZIP+4

Smithville, WV 26178

PS Form 3800, August 2006 PGX-1 Please Recycle for Instructions

7008 1300 0000 4689 4734

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Total Postage & Fees \$	SEP 04 2014

Postmark Here

WINNEBAGO PA

Sent To

Esther R. Loun
Street, Apt. No.,
or PO Box No. H.C. 62 Box 38
City, State, ZIP+4

Pine Grove, WV 26419

PS Form 3800, August 2006 PGX-1 Please Recycle for Instructions

7008 1300 0000 4689 4727

10301954P

RECEIVED
Office of Oil and Gas
SEP 19 2014
WV Department of
Environmental Protection

WW-4B

API No.	<u>47-103-01954</u>
Farm Name	<u>Willey</u>
Well No.	<u>PGX-1</u>

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator names on the obverse side of the WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil and Gas.

This notice and application is given to you in order that your respective representative may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: if you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner or Lessee for plugging" prior t the issuance of this plugging permit.

WAIVER

The undersigned coal operator _____ / owner X / lessee _____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Anthony M. Drezenst Signature Date 9/4/14

RECEIVED
Office of Oil and Gas
By Anthony M. Drezenst
Its DISTRICT LAND MANAGER
SEP 19 2014

WV Department 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 FISHING CREEK Quadrangle Pine Grove, WV 7.5'

Elevation 766' County Wetzel District Grant

Description of anticipated Pit Waste: N/A - will use mud trucks to contain all drilling muds

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 _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No pits)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain No pits)
- Swabbing
- Plugging

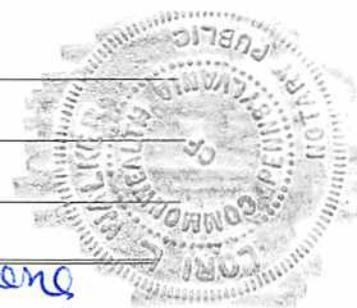
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 Erika Whetstone

Company Official (Typed Name) Erika Whetstone

Company Official Title Supervisor- Permitting

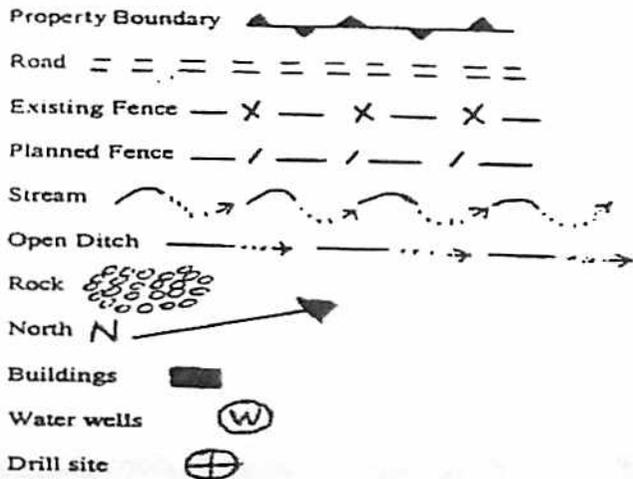


Subscribed and sworn before me this 4th day of September, 2014

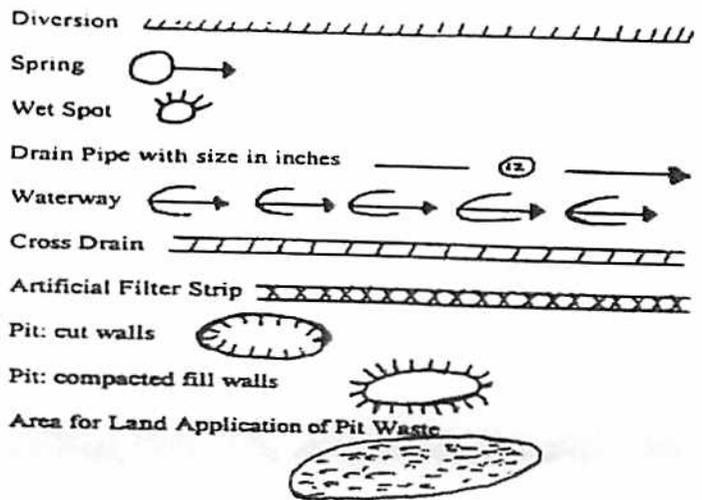
Lori L. Walker Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Lori L. Walker, Notary Public
Richhill Twp., Greene County
My Commission Expires Feb. 23, 2015
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My commission expires February 23, 2015



LEGEND



Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH _____

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
Tall Fescue		40
Landino Clover		5

Seed Type	Area II	lbs/acre
Tall Fescue		40
Landino Clover		5

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

Photocopied section of involved 7.5' topographic sheet.

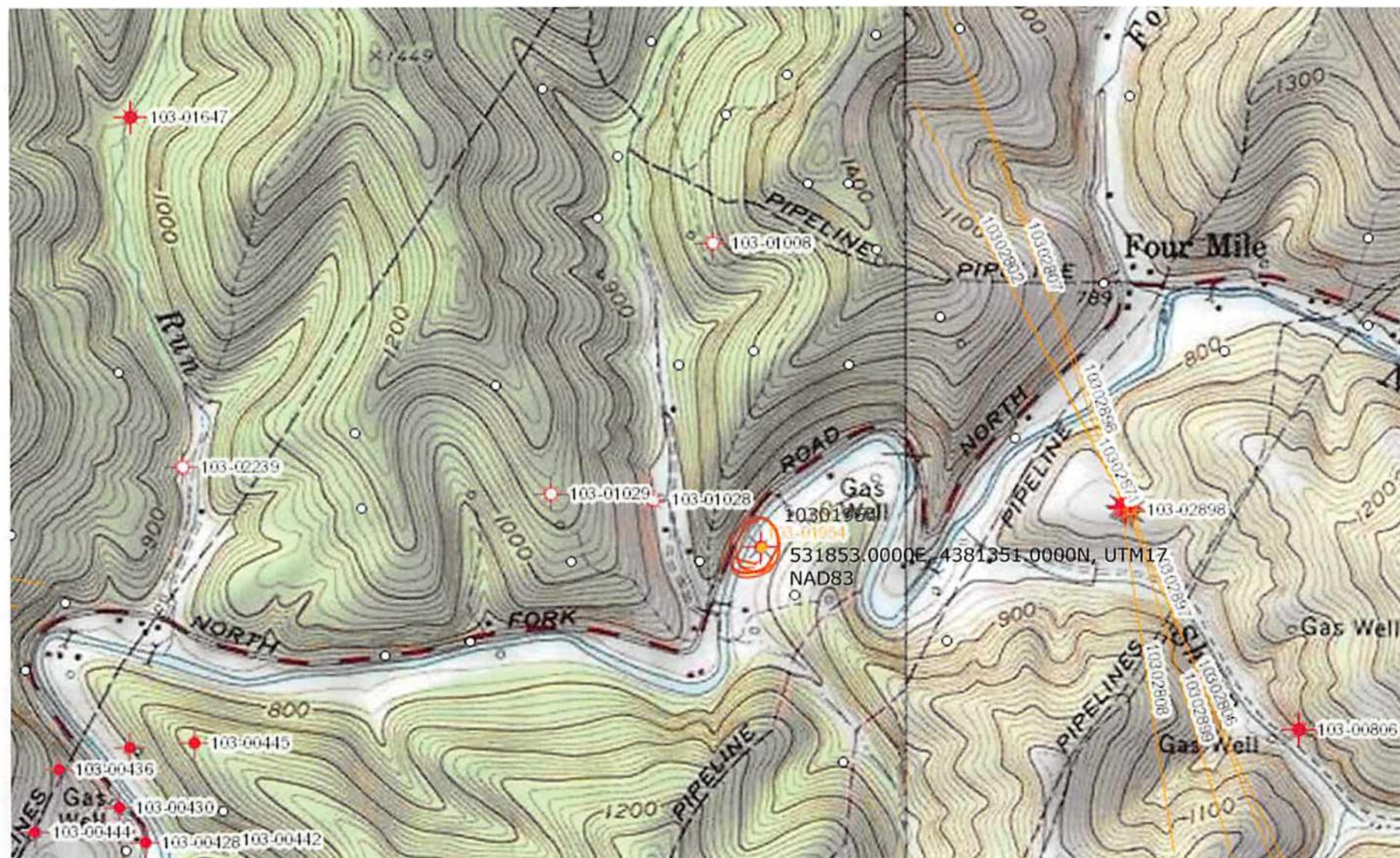
Plan Approved by: [Signature]

Comments: _____

Title: Oil + Gas Inspector

Date: 9-15-74

Field Reviewed? () Yes () No

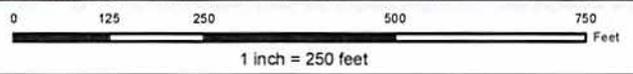


10301954P



Legend

-  Wellbore
-  Parcel Boundary



 **CONSOL ENERGY**
Canonsburg, PA

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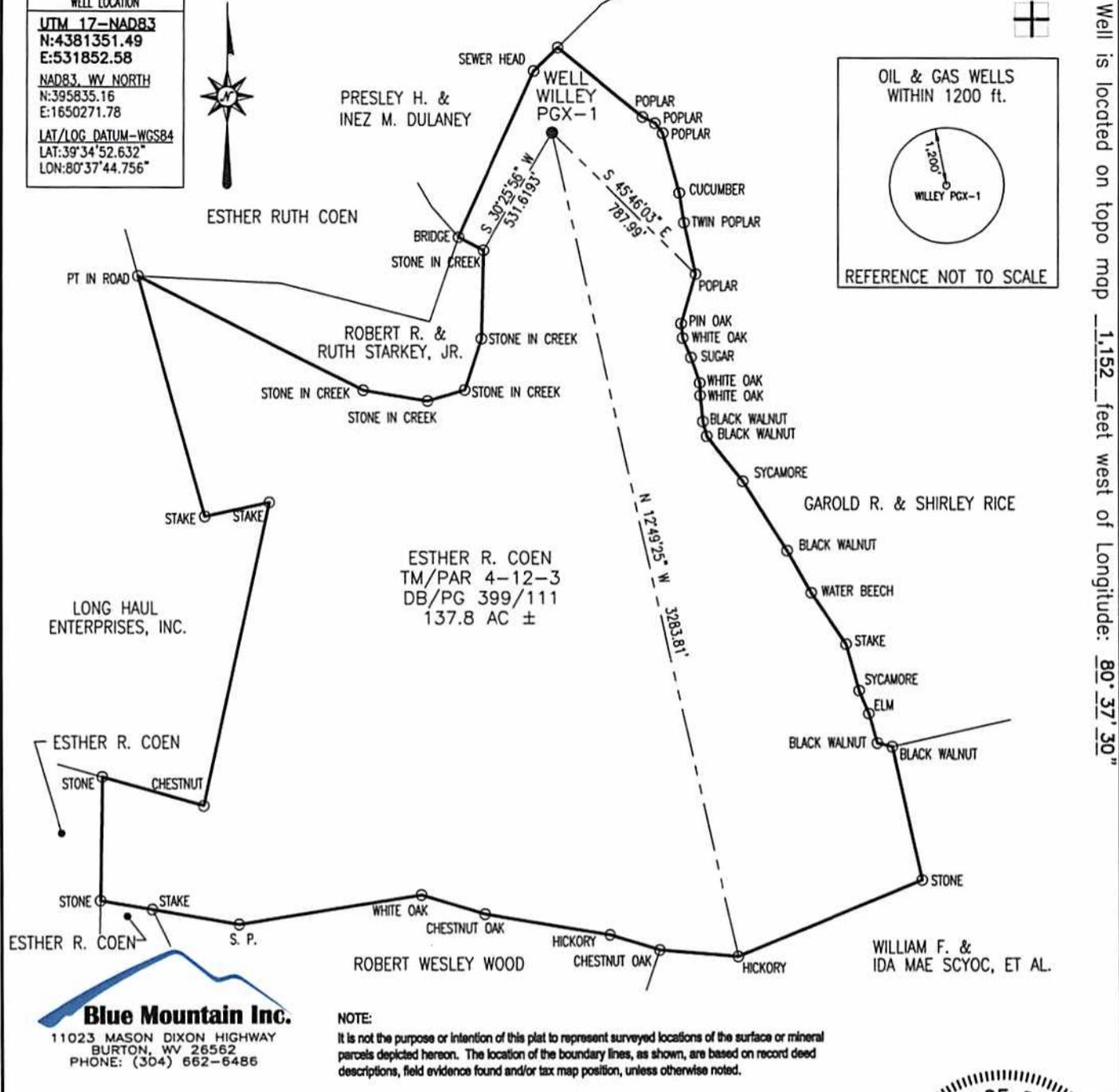
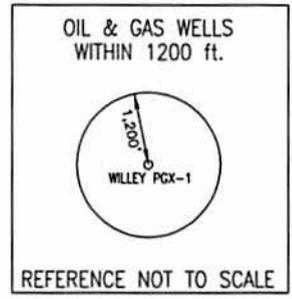
Prepared By: Jason Bartley
Original Date: 10/6/2014
Revision No:
Revision Date:

Location Map
PGX-1

Well is located on topo map 746 feet south of Latitude: 39° 35' 00"

Well is located on topo map 1.152 feet west of Longitude: 80° 37' 30"

WELL LOCATION
UTM 17-NAD83
N:4381351.49
E:531852.58
NAD83, WV NORTH
N:395835.16
E:1650271.78
LAT/LOG DATUM-WGS84
LAT:39°34'52.632"
LON:80°37'44.756"



NOTE:
 It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: WILLEY PGX-1
 DRAWING #: WILLEY PGX-1
 SCALE: 1" = 600'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.
 Signed: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: AUGUST 26, 2014
 OPERATOR'S WELL #: WILLEY PGX-1
 API WELL #: 47 103 01954
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: FISHING CREEK ELEVATION: 766'
 COUNTY/DISTRICT: WETZEL / GRANT QUADRANGLE: PINE GROVE, WV 7.5'
 SURFACE OWNER: ESTHER R. COEN ACREAGE: 137.8±
 OIL & GAS ROYALTY OWNER: CONSOLIDATION COAL COMPANY ACREAGE: RECEIVED

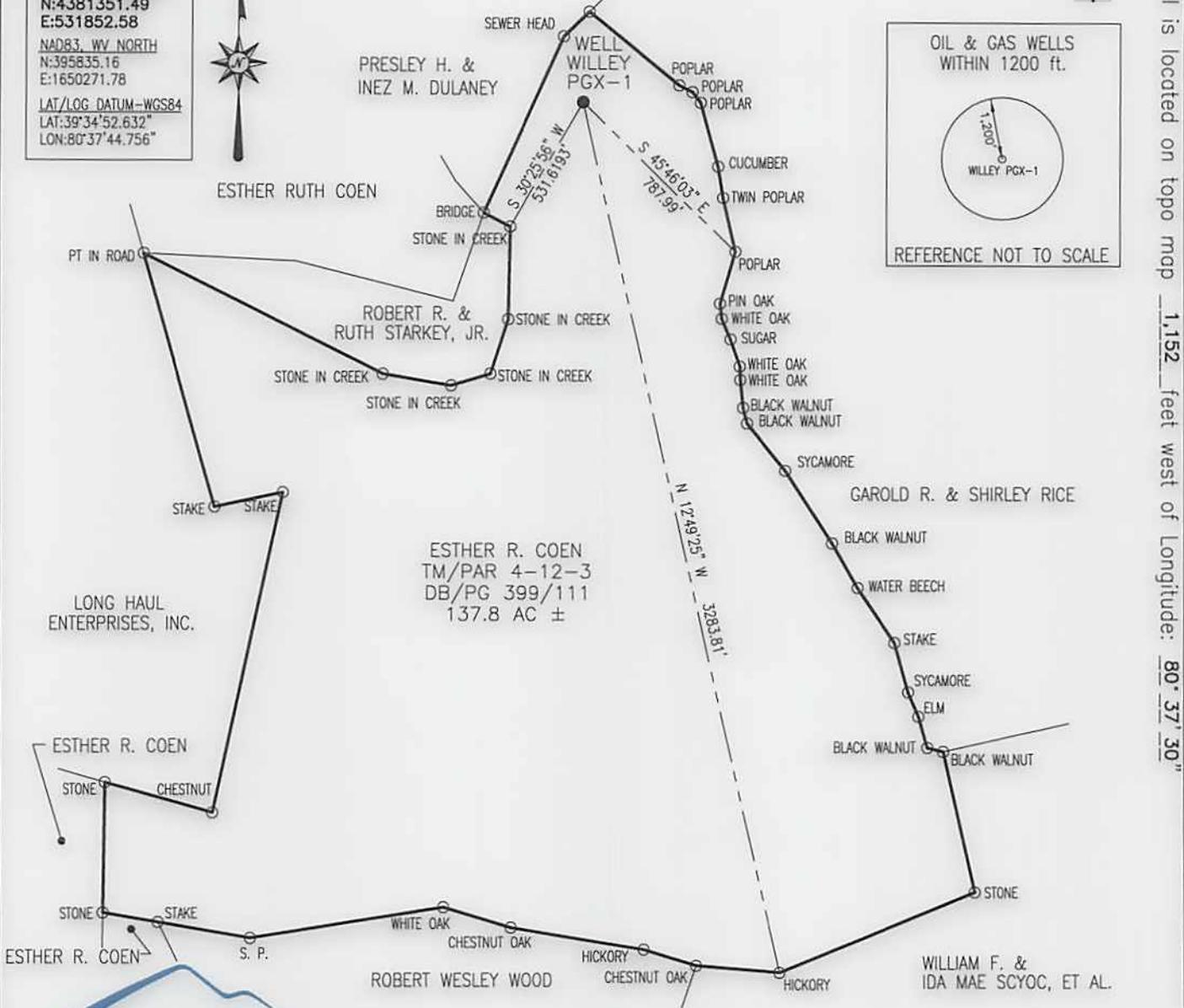
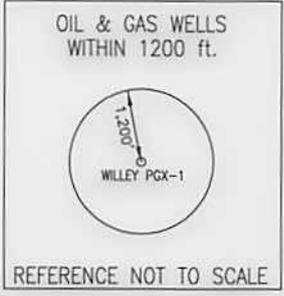
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: PITTSBURGH COAL ESTIMATED DEPTH: 1000'±
 WELL OPERATOR CNX GAS COMPANY, LLC DESIGNATED AGENT MATTHEW IMRICH
 Address 200 EVERGREENE DR. Address 1 DOMINION DRIVE
 City WAYNESBURG State PA Zip Code 15370 City JANE LEW State WV Zip Code 26378

Well is located on topo map 746 feet south of Latitude: 39° 35' 00"

Well is located on topo map 1,152 feet west of Longitude: 80° 37' 30"

WELL LOCATION
UTM 17-NAD83
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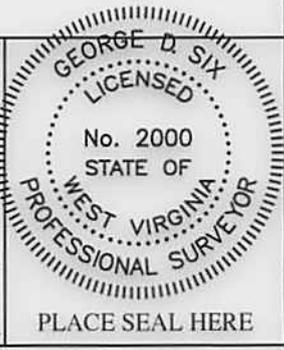
ESTHER R. COEN
 TM/PAR 4-12-3
 DB/PG 399/111
 137.8 AC ±

Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

NOTE:
 It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

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 DRAWING #: WILLEY PGX-1
 SCALE: 1" = 600'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 Signed: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: AUGUST 26, 2014
 OPERATOR'S WELL #: WILLEY PGX-1
 API WELL #: 47 103 01954
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: FISHING CREEK ELEVATION: 766'

COUNTY/DISTRICT: WETZEL / GRANT QUADRANGLE: PINE GROVE, WV 7.5'

SURFACE OWNER: ESTHER R. COEN ACREAGE: 137.8±

OIL & GAS ROYALTY OWNER: CONSOLIDATION COAL COMPANY ACREAGE: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: PITTSBURGH COAL ESTIMATED DEPTH: 1000'±

WELL OPERATOR CNX GAS COMPANY, LLC DESIGNATED AGENT MATTHEW IMRICH
 Address 200 EVERGREENE Dr. Address 1 DOMINION DRIVE
 City WAYNESBURG State PA Zip Code 15370 City JANE LEW State WV Zip Code 26378

10301954A



Erika Whetstone
Supervisor-Permitting
Waynesburg, PA 15370
(724) 627-1492



August 14, 2014

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

Plugging Permit Application – Well “Willey, David #PGX-1”

Dear Sir or Madam,

Enclosed is the plugging permit application for the above referenced well. We have also included the OP-77A form to transfer this well to CNX Gas Company’s bond. Dynatec Energy no longer exists. This well is one of many to be plugged this year to comply with CNX Gas Company’s consent order.

If any further information or correspondence is required, please contact me at (724)627-1492 or ErikaWhetstone@consolenergy.com.

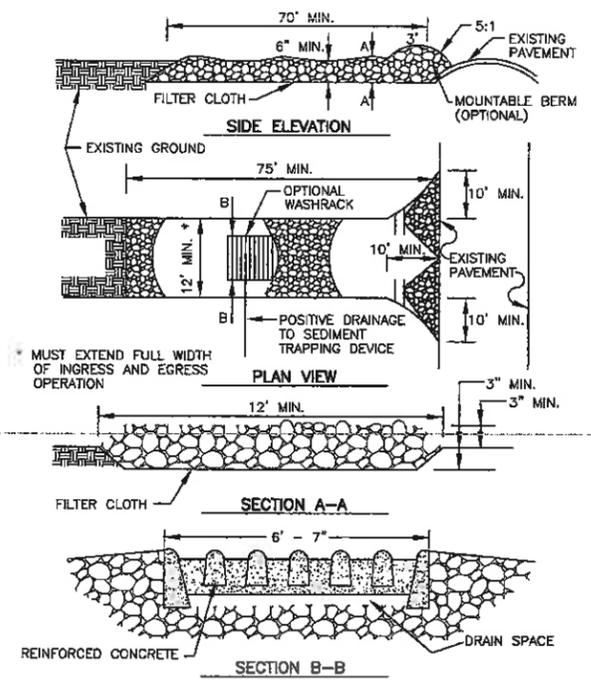
Sincerely,

A handwritten signature in blue ink that reads 'Erika Whetstone'.

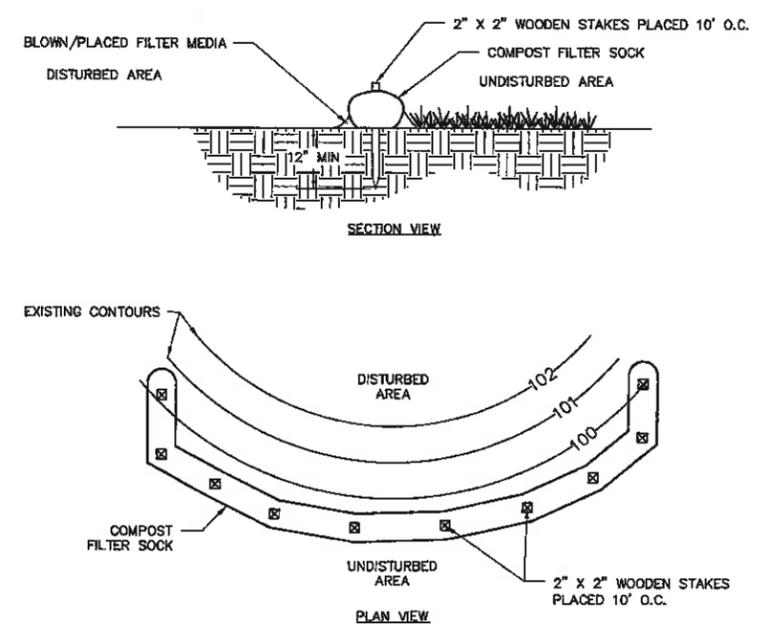
Erika Whetstone

RECEIVED
Office of Oil and Gas
SEP 19 2014
WV Department of
Environmental Protection

**STANDARD CONSTRUCTION DETAIL
STONE CONSTRUCTION ENTRANCE**
NOT TO SCALE

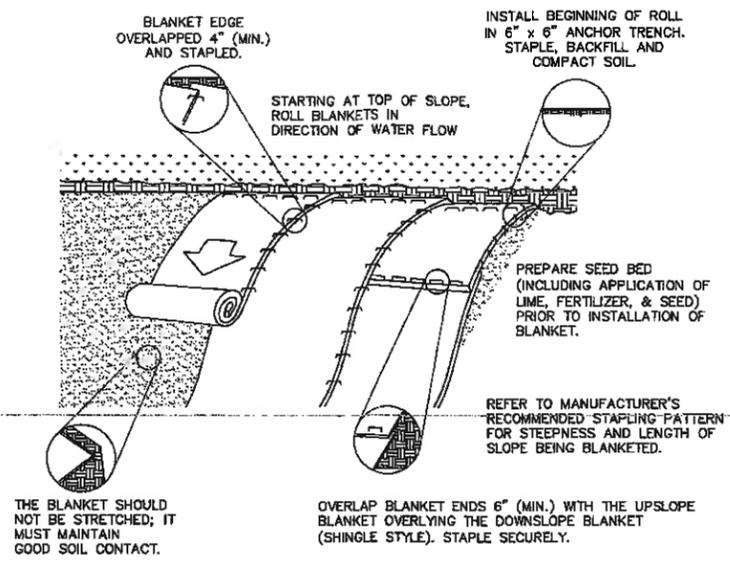


**STANDARD CONSTRUCTION DETAIL
COMPOST FILTER SOCK**
NOT TO SCALE



- NOTES:
1. ALL MATERIAL TO MEET DEP SPECIFICATIONS.
 2. FILTER SOCK/COMPOST/JSOIL/ROCK/SEED FILL TO MEET DEP REQUIREMENTS.
 3. FILTER SOCK DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.
 4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

**STANDARD CONSTRUCTION DETAIL
EROSION CONTROL BLANKET**
NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP, STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
- * IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

MORRIS KNOWLES & ASSOCIATES, INC.
A HAMMONTREE COMPANY
PA ENGINEERS, PLANNERS, SURVEYORS
443 ARENSA DRIVE DELMONT, PA 15628
PH: (724) 468-4622 FAX: (724) 468-8840
www.mknor.com

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EROSION & SEDIMENT CONTROL DETAILS
EE HELDRETH
XTO ENERGY, INC.
ROBINSON WYATT RUN RD / CR 3
HARRISON COUNTY, WEST VIRGINIA

