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**west virginia** department of environmental protection

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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

October 22, 2013

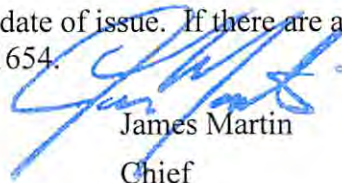
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4901404, 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: L-38  
Farm Name: ENSMINGER, JAMES T. & WILM.  
**API Well Number: 47-4901404**  
**Permit Type: Plugging**  
Date Issued: 10/22/2013

## 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

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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.

4901404P

WW-48  
(Rev. 6-07)

1) Date: September 3, 2013  
2) Operator's Well Number L-38  
3) API Well No.: 47 - 049 - 01404  
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 1242' Watershed Flat Run of Pyles Fork Creek  
District Mannington County Marion Quadrangle Mannington, WV-PA 7.5'

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

7) Designated Agent Jeremy Jones  
Address 1 Dominion Drive  
Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified  
Name Bill Hendershot  
Address 403 James Street  
Mannington, WV 26582

9) Plugging Contractor  
Name Daybrook Development Corp  
Address 2656 Daybrook Rd  
Fairview, WV 26570-8592

10) Work Order: The work order for the manner of plugging this well is as follows:  
  
Degas hole plugging to include pulling a minimum 150% of the casing string weight, perforations of any remaining casing at 100' intervals, thixotropic cement from attainable bottom to 100' above the highest mineable coal seam with expandable cement placed from the top of the thixotropic to the surface. All degas plugging work shall comply with WV Code Chapter 22 Article 6.

SET MONUMENT.

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.  
Work order approved by inspector Bill Hendershot Date 9-25-13  
10/25/2013

W-5(B)

Page 3 of 3  
49-01404C P

CONSOLIDATION COAL COMPANY  
1800 WASHINGTON ROAD  
PITTSBURGH PA

WELL NUMBER L-38

MINE Loveridge

DATE STARTED October 1981

DATE COMPLETED October 1981

CONTRACTOR ?

TOTAL DEPTH OF HOLE 977 (APPROX)  
[In Feet]

CASING IN HOLE: SLOTTED 200  
[In Feet]

Surface 20  
5-1/2-Inch 972

PACKER SIZE 3' 6"

CEMENT 255 [SKS]

OK SM

1-3-03 RECEIVED  
Office of Oil and Gas

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WV Department of  
Environmental Protection

10/25/2013

4901404 P



Sarah Baughman  
Permitting Supervisor  
200 Evergreene Drive  
Waynesburg, PA 15370  
(724) 627-1229



August 1, 2013

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

Plugging Permit Application – Well “L-38”

Dear Sir or Madam,

Enclosed is the plugging permit application for the above referenced CBM well.

If any further information or correspondence is required, please contact me at (724)627-1229 or [SarahBaughman@consolenergy.com](mailto:SarahBaughman@consolenergy.com).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Sarah Baughman', written over the typed name.

Sarah Baughman

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Office of Oil and Gas

OCT 04 2013

WV Department of  
Environmental Protection

10/25/2013

4901404P

WW-4A  
(Rev. 6-07)

1) Date: September 23, 2013  
2) Operator's Well Number L-38  
3) API Well No.: 47 - 049 - 01404  
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>James T. Ensminger &amp; Wilma J. Ensminger</u> ✓ | Name <u>Consolidation Coal Company</u> W |
| Address <u>264 Rady Peck Hollow Rd</u>                        | Address <u>1000 Consol Energy Drive</u>  |
| <u>Mannington, WV 26582</u>                                   | <u>Canonsburg, PA 15317</u>              |
| (b) Name _____  | (b) Coal Owner(s) with Declaration       |
| Address _____   | Name <u>Consolidation Coal Company</u> W |
|   | Address <u>1000 Consol Energy Drive</u>  |
|   | <u>Canonsburg, PA 15317</u>              |
| (c) Name _____  | Name _____                               |
| Address _____   | Address _____                            |
| 6) Inspector <u>Bill Hendershot</u> ✓                         | (c) Coal Lessee with Declaration         |
| Address <u>403 James St.</u>                                  | Name _____                               |
| <u>Mannington, WV 26582</u>                                   | Address _____                            |
| Telephone _____   |  |

**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.

Commonwealth of Pennsylvania  
County of Greene

|               |   |
|---------------|---|
| Well Operator | <u>CNX Gas Company LLC</u>                  |
| By:           | <u>Sarah Baughman</u> <i>Sarah Baughman</i> |
| Its:          | <u>Supervisor of Permitting</u>             |
| Address       | <u>200 Evergreene Drive</u>                 |
|               | <u>Waynesburg, PA 15370</u>                 |
| Telephone     | <u>724-627-1229</u>                         |

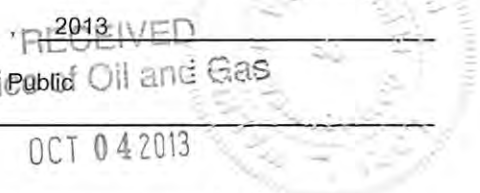
Subscribed and sworn before me this 23rd day of September, 2013.  
Lori L. Walker Notary Public

My Commission Expires \_\_\_\_\_  
COMMONWEALTH OF PENNSYLVANIA

Notarial Seal  
Lori L. Walker, Notary Public  
Richhill Twp., Greene County  
My Commission Expires Feb. 23, 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 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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).



10/25/2013

WW-4B

API No. 47-049-01404  
 Farm Name \_\_\_\_\_  
 Well No. L-38

**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 to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator X / 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.

Ronni Hurd \_\_\_\_\_ Date 9-27-13  
 Signature

RECEIVED  
 Consolidation Office of Oil and Gas  
 By Ronni Hurd  
 Its Agent OCT 04 2013

WV Department of  
 Environmental Protection

10/25/2013

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 Company, LLC OP Code 494458046

Watershed Flat run of Pyles Fork Creek Quadrangle Mannington 457

Elevation 1242' County Marion 49 District Mannington 04

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
- Swabbing
- Workover
- Plugging
- Other (Explain no pits)

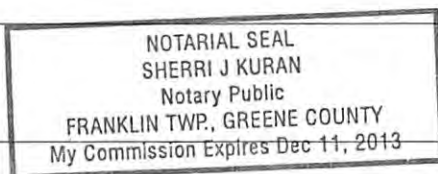
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 *Sarah Baughman*  
Company Official (Typed Name) Sarah Baughman  
Company Official Title Supervisor- Permitting

Subscribed and sworn before me this 3rd day of October, 2013

*Sherrri J Kuran*



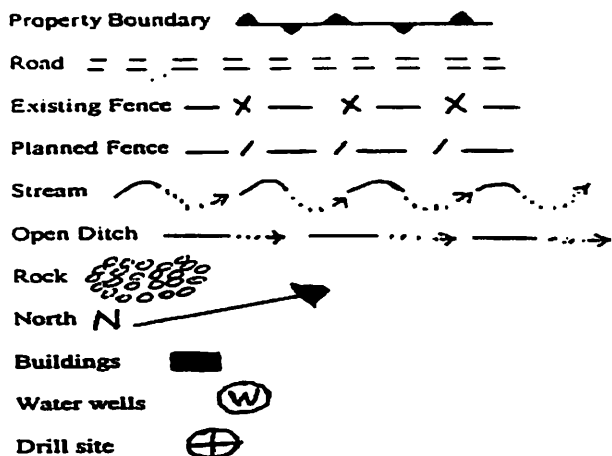
Notary Public  
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Office of Oil and Gas

OCT 04 2013

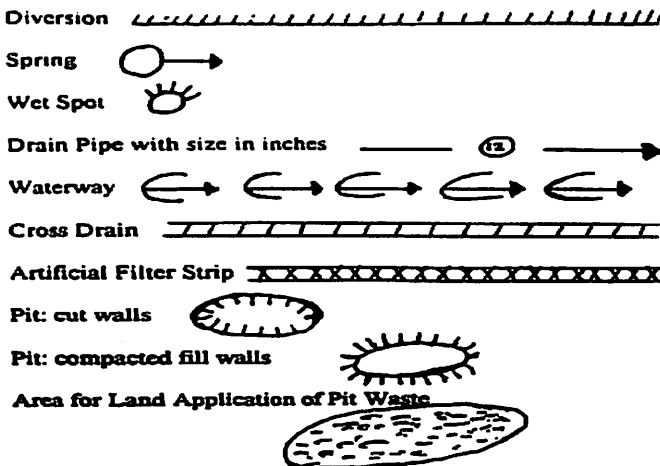
My commission expires \_\_\_\_\_

WV Department of  
Environmental Protection  
10/25/2013





**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 |          | Seed Type      | Area II |          |
|----------------|--------|----------|----------------|---------|----------|
|                |        | lbs/acre |                |         | lbs/acre |
| Tall Fescue    |        | 40       | Tall Fescue    |         | 40       |
| Landino Clover |        | 5        | 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: \_\_\_\_\_

Comments: \_\_\_\_\_

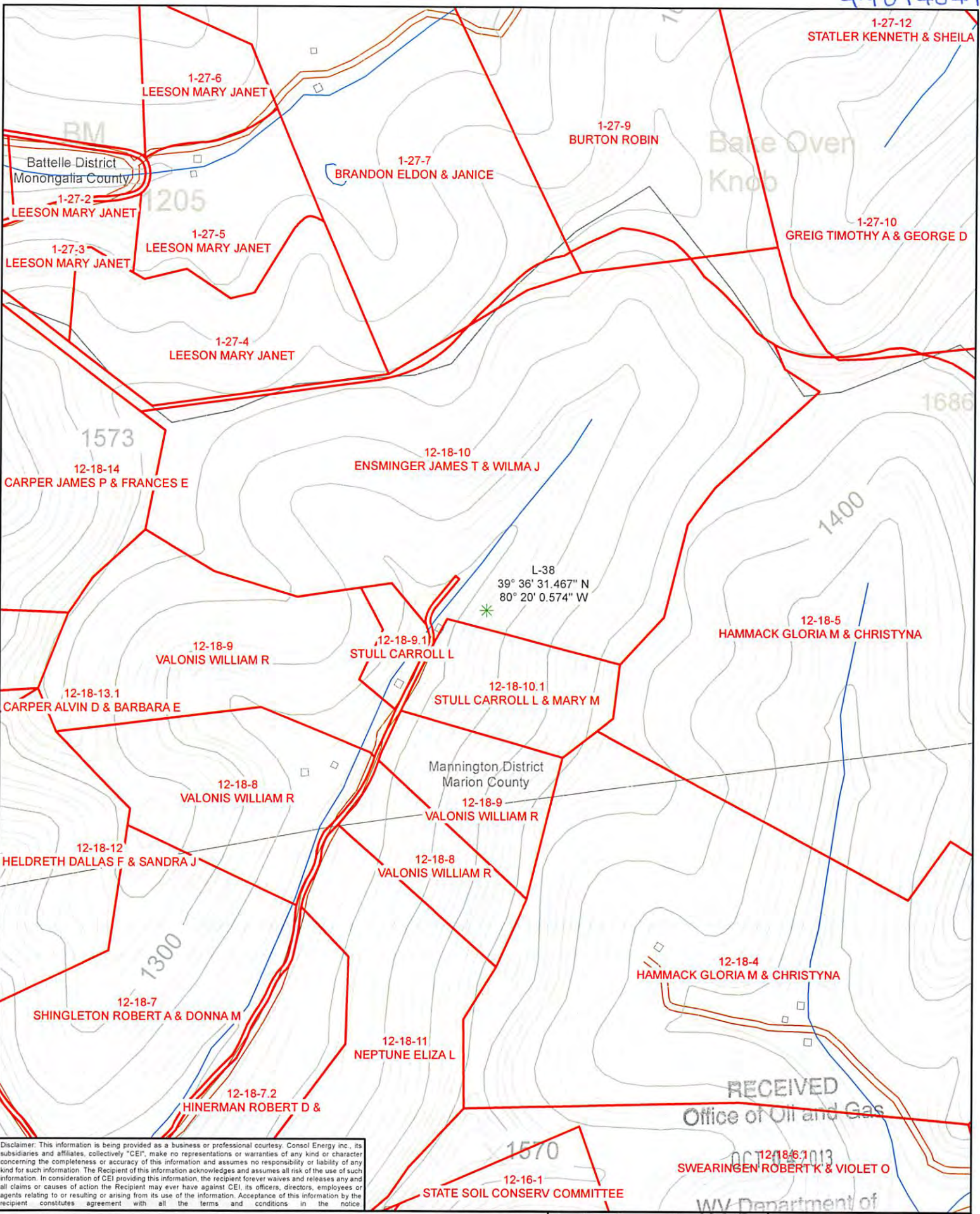
Title: \_\_\_\_\_

Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

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Office of Oil and Gas

OCT 04 2013



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- Legend**
- \* GOB Well
  - Surface Property
  - District / County



|                 |  |                           |  |
|-----------------|--|---------------------------|--|
| Date: 7/10/2013 |  | Prepared By: K. McCartney |  |
| Revisions:      |  | Approved By:              |  |

**RECEIVED**  
Office of Oil and Gas  
DC 12/18/2013  
WV Department of Environmental Protection

**CONSOL ENERGY**

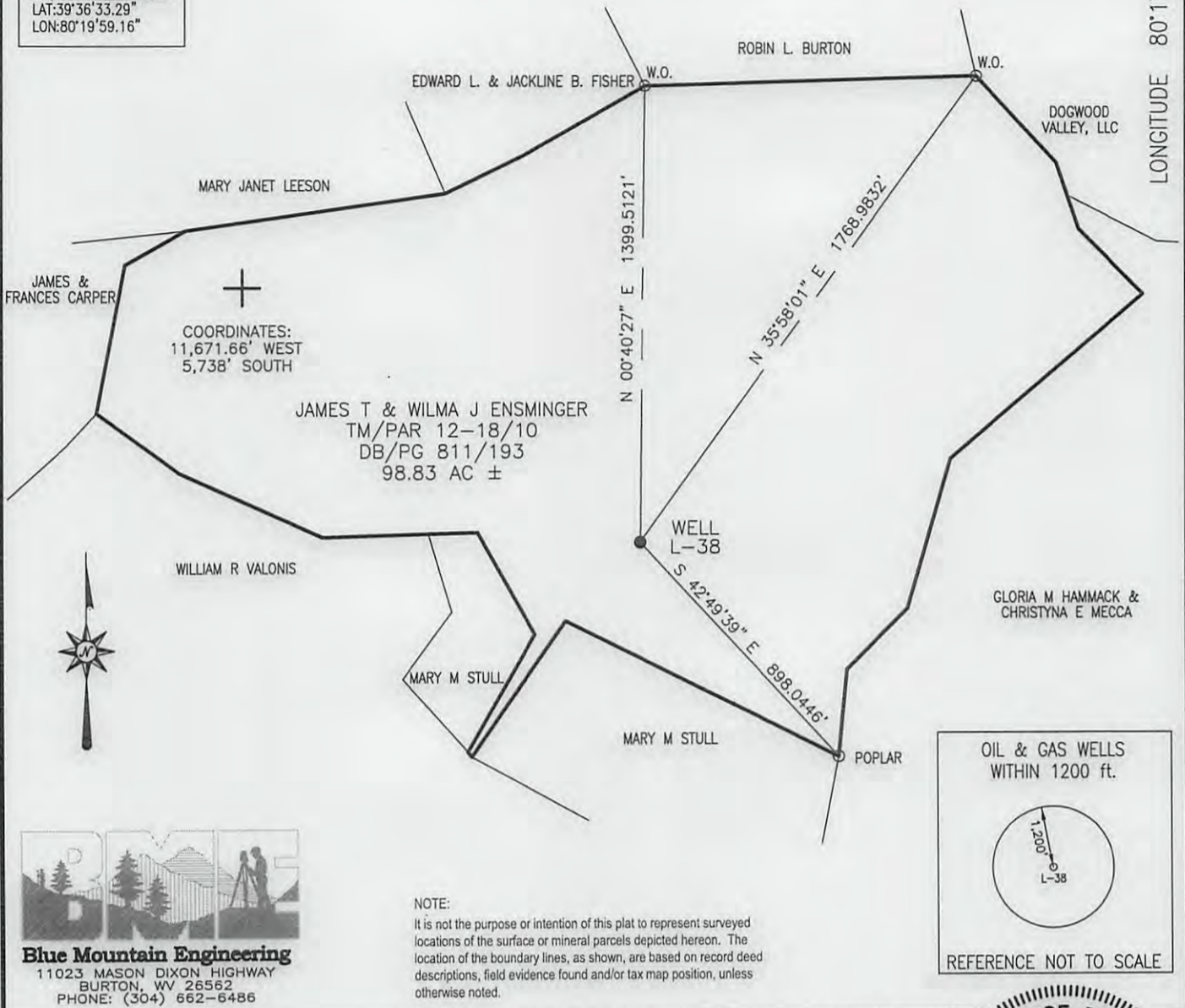
GOB Well Location Map  
Well L-38 for Plugging  
Loveridge Project Area

This map is property of CONSOL Energy Inc. and contains information that is proprietary and confidential in nature and may not be copied or reproduced without prior written consent.

WELL LOCATION  
**UTM 17-NAD83**  
 N:4384601.31  
 E:557249.83  
 NAD83, WV NORTH  
 N:405107.83  
 E:1733788.67  
 LAT/LOG DATUM-WGS84  
 LAT:39°36'33.29"  
 LON:80°19'59.16"

LATITUDE 39°37'30"

LONGITUDE 80°17'30"

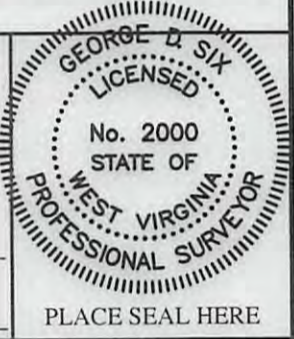


NOTE:  
 It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

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

FILE #: L-38  
 DRAWING #: L-38  
 SCALE: 1" = 500'  
 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: *[Signature]*  
 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: JULY 29, 2013  
 OPERATOR'S WELL #: L-38  
 API WELL #: 47 049 01404C  
 STATE COUNTY PERMIT

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

WATERSHED: FLAT RUN OF PYLES FORK CREEK ELEVATION: 1242'  
 COUNTY/DISTRICT: MARION / MANNINGTON QUADRANGLE: MANNINGTON, WV-PA 7.5'

SURFACE OWNER: JAMES T & WILMA J ENSMINGER ACREAGE: 98.83±  
 OIL & GAS ROYALTY OWNER: CONSOLIDATION COAL COMPANY, ET. AL. 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 ESTIMATED DEPTH: 977'

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

10/25/2013

4901404P



10/25/2013

4901404 P

WR-35

DATE: September 2, 2004  
API#: 47-4901404

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

Well Operator's Report of Well Work

Farm Name: Ensminger, James T. Operator Well No.: L-38

LOCATION: Elevation: 1242 Quadrangle: Mannington

District: Mannington County: Marion  
Latitude: 5738.00 Feet South of 39 Deg. 37 Min. 30 Sec.  
Longitude: 11671.66 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: CNX Gas Company LLC (North)

|   | Casing & Tubing | Used In Drilling | Left In Well | Cement Fill Up Cu. Ft. |
|---|-----------------|------------------|--------------|------------------------|
| Address: 1800 Washington Road<br>Pittsburgh, PA 15241 |                 |                  |              |                        |
| Agent: Edwin Merrifield                               |                 |                  |              |                        |
| Inspector: Steve Mossor                               |                 |                  |              |                        |
| Date Permit Issued: 1/21/2003                         |                 |                  |              |                        |
| Date Well Work Commenced: Existing Borehole           |                 |                  |              |                        |
| Date Well Work Completed: Converted to well           |                 |                  |              |                        |
| Verbal Plugging:                                      |                 |                  |              |                        |
| Date Permission granted on:                           |                 |                  |              |                        |
| Rotary Cable Rig                                      |                 |                  |              |                        |
| Total Depth (feet): 977                               |                 |                  |              |                        |
| Fresh Water Depth (ft.):                              |                 |                  |              |                        |
| Salt Water Depth (ft.):                               |                 |                  |              |                        |
| Is coal being mined in area (N/Y)? No                 |                 |                  |              |                        |
| Coal Depths (ft.): 970                                |                 |                  |              |                        |

OPEN FLOW DATA

|   |  |                        |                |
|---|--|------------------------|----------------|
| Producing formation                               | <u>Pittsburgh Coal Seam</u>            | Pay zone depth (ft)    | <u>970</u>     |
| Gas: Initial open flow                            | <u>40</u> MCF/d                        | Oil: Initial open flow | <u>0</u> Bbl/d |
| Final open flow                                   | <u>40</u> MCF/d                        | Final open flow        | <u>0</u> Bbl/d |
| Time of open flow between initial and final tests | <u>0</u> Hours                         |                        |                |
| Static rock pressure                              | <u>1</u> psig (surface pressure) after | <u>-</u> Hours         |                |
| Second producing formation                        | <u>None</u>                            | Pay zone depth (ft)    |                |
| Gas: Initial open flow                            |  | Oil: Initial open flow |                |
| Final open flow                                   |  | Final open flow        |                |
| Time of open flow between initial and final tests |  |                        |                |
| Static rock pressure                              |  |                        |                |

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORMANCE 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: Joseph P. Aman  
By: Joseph P. Aman  
Date: September 2, 2004

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Office of Oil & Gas  
Office of Chief  
SEP 07 2004  
WV Department of  
Environmental Protection

MAR 10 4