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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Monday, August 07, 2017  
WELL WORK PERMIT  
Coal Bed Methane Well / Plugging

CNX GAS COMPANY LLC  
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for L-57  
47-061-01463-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief



Operator's Well Number: L-57  
Farm Name: HAINES, NOAH & LORRAINE  
U.S. WELL NUMBER: 47-061-01463-00-00  
Coal Bed Methane Well / Plugging  
Date Issued: 8/7/2017

Promoting a healthy environment.

08/11/2017

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

1) Date \_\_\_\_\_, 2017  
2) Operator's  
Well No. L51  
3) API Well No. 47-061 - 01463

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 \_\_\_\_/ ShallowX

5) Location: Elevation 1328.70 Watershed West Virginia Fork  
District Battelle County Monongalia Quadrangle Mannington

6) Well Operator CNX Gas Company, LLC 7) Designated Agent Christopher Turner  
Address 1000 Consol Energy Drive Address P.O. Box 1248  
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified Name Gayne J Knitowski  
Address P.O. Box 108  
Gormanian WV 26720  
9) Plugging Contractor Name Coastal Drilling East LLC  
Address 70 Gums Springs Road  
Morgantown, WV 26508


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

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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  Date 7/6/2017

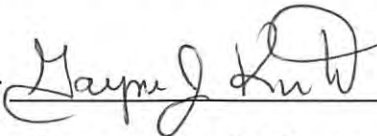
08/11/2017

**Plugging Work Order for Haines L-57****API Number 47-061-01463****Elevation 1356'****Original Permit Issued- 9/17/2002**

TD: 1094'

1. Verify TD and casing volume (~1094')
2. Set CIBP at lowest attainable depth (Stay above slotted liner if present)
- ~~3. Grout from surface (~216sks)~~
4. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-061-01463

Work Order approved by Inspector



Date: 7/6/2017

Note: All cement will be Class A. All spacers will be 6% gel.

3. TIH WITH WORK STRING OF TUBING, PUMP CLASS  
A CEMENT WITH NO MORE THAN 3%  $\text{CaCl}_2$  FROM  
TOP OF CIBP TO SURFACE.

JVM

★ REMOVE ALL FREE CASING.

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08/11/2017

WR-35

DATE: September 2, 2004  
API#: 47-6101463

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

Well Operator's Report of Well Work

Farm Name: Haines, Noah & Lorraine Operator Well No.: L-57

LOCATION: Elevation: 1356 Quadrangle: Mannington

District: Battelle County: Monongalia  
Latitude: 1902.6 Feet South of 39 Deg. 37 Min. 30 Sec.  
Longitude: 3341.7 Feet West of 80 Deg. 20 Min. 00 Sec.

Company: CNX Gas Company LLC (North)

	Casing & Tubing	Used In Drilling	Left In Well	Cement Fill Up Cu. Ft.
Address: <u>1800 Washington Road</u>				
<u>Pittsburgh, PA 15241</u>				
Agent: <u>Edwin Merrifield</u>				
Inspector: <u>Steve Mossor</u>				
Date Permit Issued: <u>1/21/2003</u>				
Date Well Work Commenced: <u>Existing Borehole</u>				
Date Well Work Completed: <u>Converted to well</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): <u>1094</u>				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>1084</u>				

OPEN FLOW DATA

Producing formation	<u>Pittsburgh Coal Seam</u>	Pay zone depth (ft)	<u>1084</u>
Gas: Initial open flow	<u>110</u> MCF/d	Oil: Initial open flow	<u>0</u> Bbl/d
Final open flow	<u>110</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	<u>        </u> MCF/d	Oil: Initial open flow	<u>        </u> Bbl/d
Final open flow	<u>        </u> MCF/d	Final open flow	<u>        </u> Bbl/d
Time of open flow between initial and final tests	<u>        </u> Hours		
Static rock pressure	<u>        </u> psig (surface pressure) after	<u>        </u> 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: Joseph P. Aman  
By: Joseph P. Aman  
Date: September 2, 2004

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Office of Chief  
SEP 07 2004  
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MONO 1463  
08/11/2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
COALBED METHANE PERMIT APPLICATION 1, 457

1) Well Operator: CNX Gas Company, LLC (North) 2) Well Name St. Leo Gob Well No. L-57

3) Operator's Well Number L-57 4) Elevation 1356'

5) Well Type: (a) Oil / or Gas /
(b) If Gas: Production X / Underground Storage / CBM /
Deep / Shallow X /

6) Proposed Target Formation(s): Pittsburgh Coal Seam Mine Methane

7) Proposed Total Depth: 1094 feet

8) Approximate Fresh Water Strata Depths: Not known

9) Approximate Salt Water Depths: Not known

10) Approximate Coal Seam Depths: Pittsburgh @ 1084'

11) Does Land Contain Coal Seams Tributary to Active Mines? Yes X / No /

12) (a) Proposed Well Work: Convert an existing ventilation borehole (Well No. L-57) to a producing CBM gob well.

(b) If Stimulation Proposed, Describe Means to be Used to Stimulate Well: N/A

13) (a) Does the proposed operation plan to convert an existing well (as defined in W. Va. Code § 22-6-1) or a vertical ventilation hole to a coalbed methane well? Yes X / No /

(b) If yes, please attach to this Application a list of all formations from which production is anticipated and a description of any plans to plug any portion of the well. Pittsburgh Coal Only Via Existing Casing.

14) (a) Will the proposed coalbed methane well be completed in some but not all coal seams for production (except for a gob well or vent hole proposed to be converted to a well)? Yes / No / N/A

(b) If yes, please attach to this Application a plan and design for the well which will protect all workable coal seams which will be penetrated by the well.

15) (a) Does the proposed operation include horizontal drilling of a well commenced on the surface? Yes / No X /

(b) If yes, please attach to this Application a description of such operations, including both the vertical and horizontal alignment and extent of the well from the surface to total depth.

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For Drilling Left in Well	
Conductor					
Fresh Water					
Coal					
Intermediate					
Production					
Tubing					
Liners					

PACKERS:

**PLEASE SEE ATTACHED WELL REPORT**

For Office of Oil and Gas Use Only

Fee(s) paid: *\$250 CK #134544*
 Well Work Permit
  Reclamation Fund
  WPCP

Plat
  WW-9
  WW-5B
  Bond \_\_\_\_\_
  Agent

(Type)

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Permitting  
JAN 02 2003  
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CONSOLIDATION COAL COMPANY  
1800 WASHINGTON ROAD  
PITTSBURGH PA

WELL NUMBER L-57

MINE Loveridge

DATE STARTED ?

DATE COMPLETED ?

CONTRACTOR ?

TOTAL DEPTH OF HOLE 1,094 (APPROX)  
[In Feet]

CASING IN HOLE: SLOTTED 300  
[In Feet]

Surface 20  
5-1/2-INCH 1,090

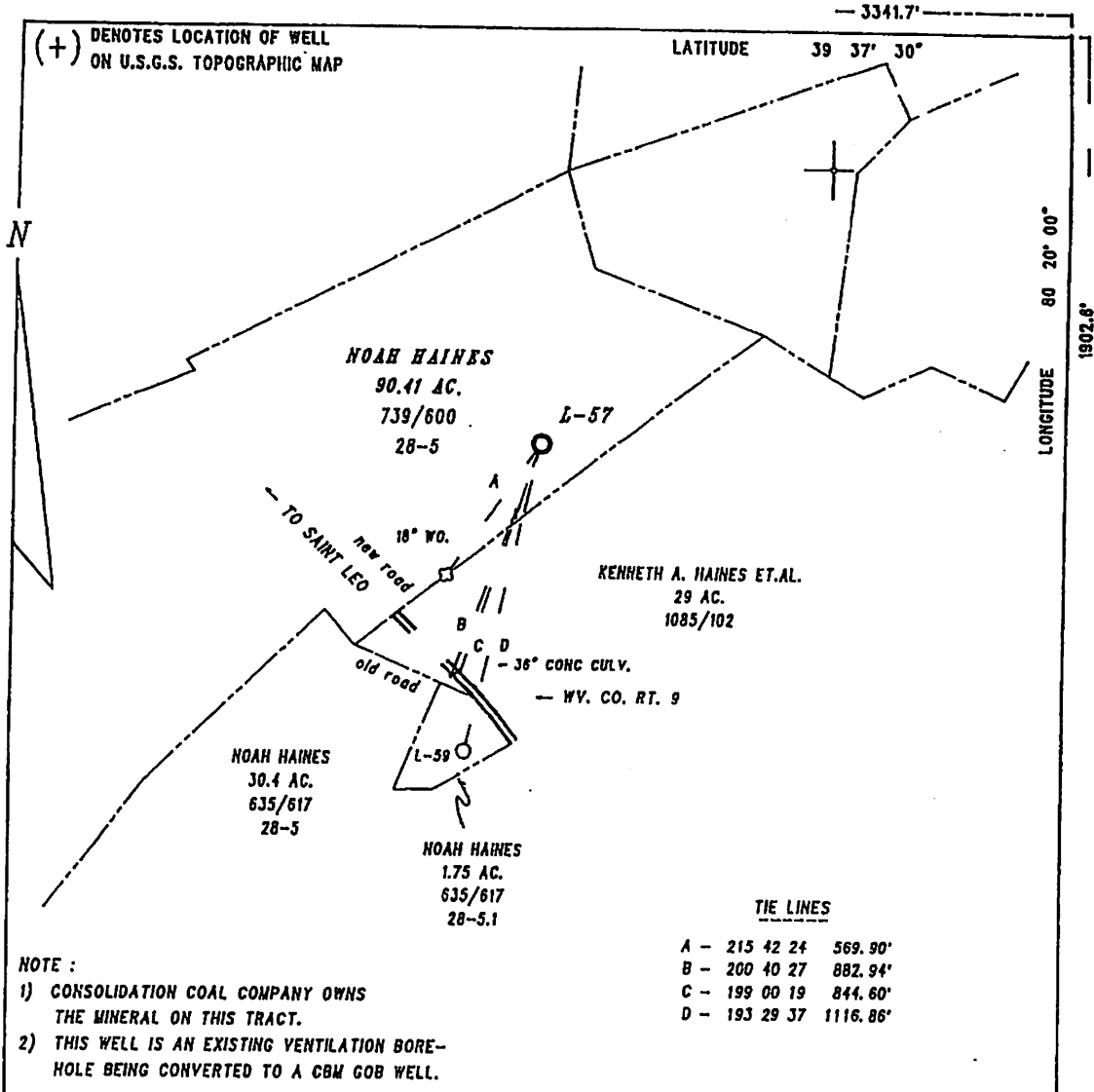
PACKER SIZE 3' 6"

CEMENT 300 [SKS]

OK S.M  
1-3-03



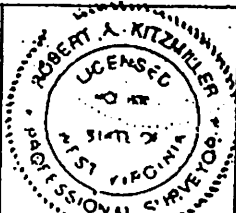
6101463CP



FILE NO. 02-HH-07  
 DRAWN BY: R.A. KITZMILLER  
 SCALE: 1 : 500'  
 MIN. DEGREE OF ACCURACY 1 / 200'  
 PROVEN SOURCE OF ELEVATION :  
 SPOT ELEVATION

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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) *Robert A. Kitzmiller*  
 Professional Surveyor No. 835



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WV. DEPT. OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS DIVISION  
 1356 HANSFORD STREET  
 CHARLESTON, WV. 25301

DATE FEBRUARY 21, 20 02  
 OPERATOR'S WELL NO. L-57  
 API WELL NO.  
 47 - 061 - 01463P  
 STATE COUNTY PERMIT NO.

WELL TYPE: OIL  GAS  CBM  LIQUID INJECTION  WASTE DISPOSAL   
 IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1356' WATERSHED RANGE RUN OF WEST VIRGINIA FORK OF DUNKARD CREEK  
 DISTRICT BATTLE COUNTY MONONGALIA  
 QUADRANGLE MANNINGTON NEAREST TOWN WADESTOWN  
 SURFACE OWNER NOAH & LORRAINE HAINES ACREAGE 90.41 AC.  
 OIL & GAS ROYALTY OWNER See Note LEASE ACREAGE  
 LEASE NO. ---

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) EXISTING VENTILATION BOREHOLE BEING CONVERTED  
 PLUG AND ABANDON CLEAN OUT AND REPLUG  TO GOB WELL.  
 TARGET FORMATION PITTSBURGH ESTIMATED DEPTH 1094'  
 WELL OPERATOR CNX GAS COMPANY LLC. (NORTH) DESIGNATED AGENT EDWIN L. HERRIFIELD  
 ADDRESS 1800 WASHINGTON ROAD ADDRESS 118 1/2 HUNSAKER STREET  
 PITTSBURGH, PA. 15421-1421 FAIRMONT, WV. 26554

PRECISION SURVEYS FORM IV-9

MOND COUNTY PERMIT NO. 1463P

08/11/2017

6101463CP

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
L57 \_\_\_\_\_

3) API Well No.: 47 - 061 - 01463

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

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>NOAH V &amp; LORRAINE ARTHUR HAINES</u> Address <u>2126 SAINT LEO RD</u> <u>MANNINGTON WV 26582-5223</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Gayne J Knitowski</u> Address <u>P.O. Box 108</u> <u>Gormanian WV 26720</u> Telephone <u>304-546-8171</u></p>	<p>5) (a) Coal Operator</p> <p>Name <u>The Marion County Coal Company</u> Address <u>46226 National Rd W</u> <u>St. Clairsville, OH 43950</u></p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Consolidation Coal Company</u> Address <u>1000 Consol Energy Drive</u> <u>Canonsburg, PA 15317</u></p> <p>Name <u>NOAH V &amp; LORRAINE ARTHUR HAINES</u> Address <u>2126 St. Leo Road</u> <u>Mannington, WV 26582</u></p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>n/a</u> Address _____</p>	<p>RECEIVED Office of Oil and Gas <b>JUL 13 2017</b> WV Department of Environmental Protection</p>
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**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: Erika Whetstone *Erika Whetstone*  
 Its: Permitting Supervisor  
 Address 1000 Consol Energy Drive  
Canonsburg, PA 15370  
 Telephone (724) 485-4035

Subscribed and sworn before me this 9th day of June 2017  
*Lori L Walker*  
 My Commission Expires February 23, 2019

**COMMONWEALTH OF PENNSYLVANIA**  
**NOTARIAL SEAL**  
 Lori L. Walker, Notary Public  
 Richhill Twp., Greene County  
 My Commission Expires Feb. 23, 2019  
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

**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](mailto:depprivacyoffier@wv.gov).

08/11/2017

6101463CP

WW-9  
(5/16)

API Number 47 - 061 - 01463  
Operator's Well No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046

Watershed (HUC 10) West Virginia Fork Quadrangle Mannington

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns)

Will closed loop system be used? If so, describe: no

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. na

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

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Additives to be used in drilling medium? na

JUL 13 2017

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. na

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_  
WV Department of Environmental Protection

-Landfill or offsite name/permit number? \_\_\_\_\_

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 Permitting Supervisor

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Lori L. Walker, Notary Public  
Richhill Twp., Greene County  
My Commission Expires Feb. 23, 2019  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 9th day of June, 20 17

Lori L. Walker  
Notary Public

My commission expires February 23, 2019



Operator's Well No. \_\_\_\_\_

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

Lime 2-3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type	lbs/acre
Tall Fescue	40
Landino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Landino Clover	5

Attach:  
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Harvey J. Kuter*

Comments: Reclaim site ASAP.

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Title: Inspector

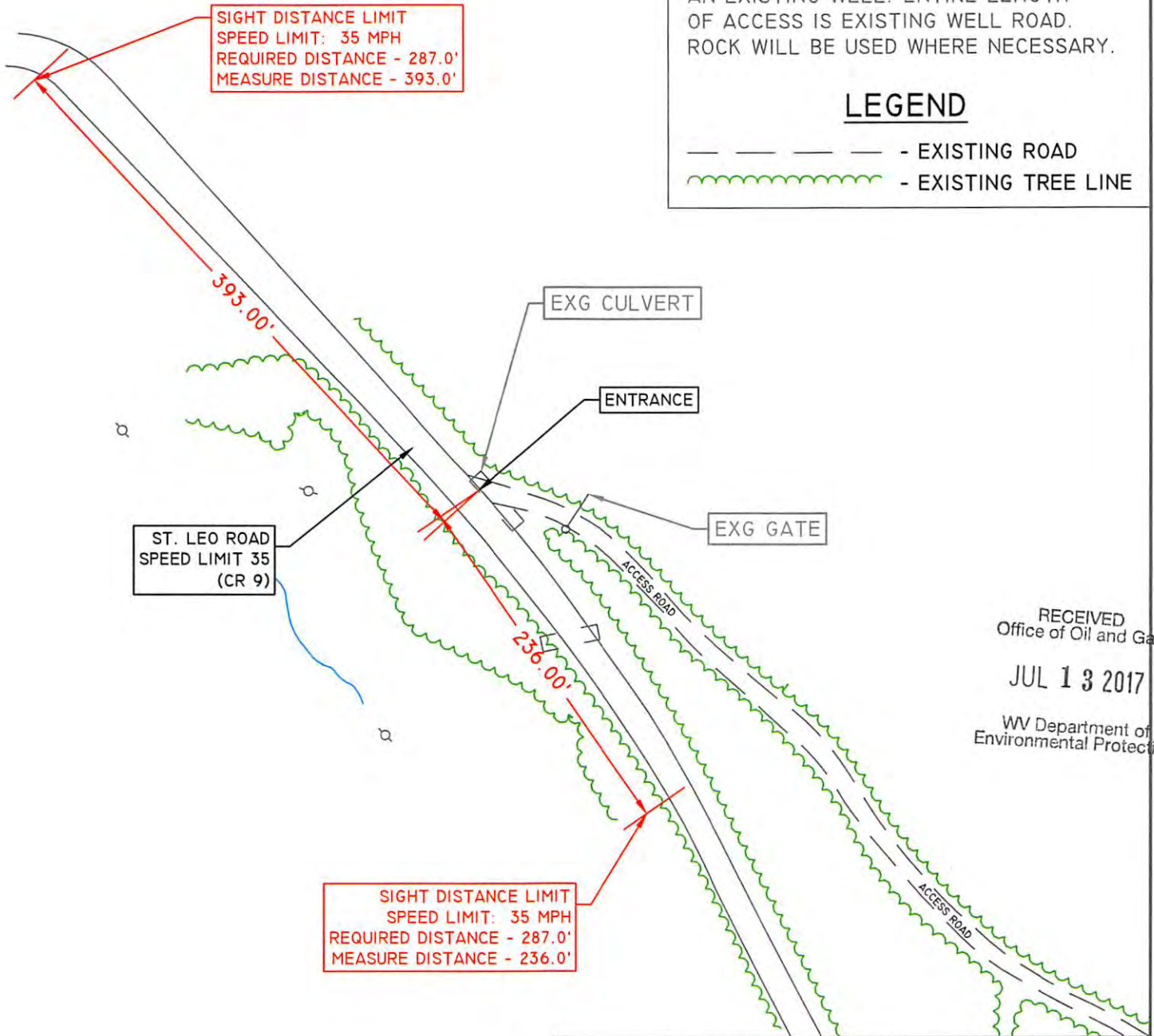
Date: 7/6/2017

Field Reviewed?  Yes  No

THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

**LEGEND**

- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE



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DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY, LLC.

200 HALLAM ROAD

WASHINGTON, PA 15301

WATERSHED: WEST VIRGINIA FORK

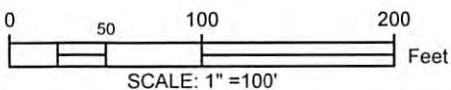
DISTRICT: BATTELLE COUNTY: MONONGALIA

HAINES

QUADRANGLE: MANNINGTON WELL NO: L-57

DATE: 05/23/2017 PAGE 1 OF 3

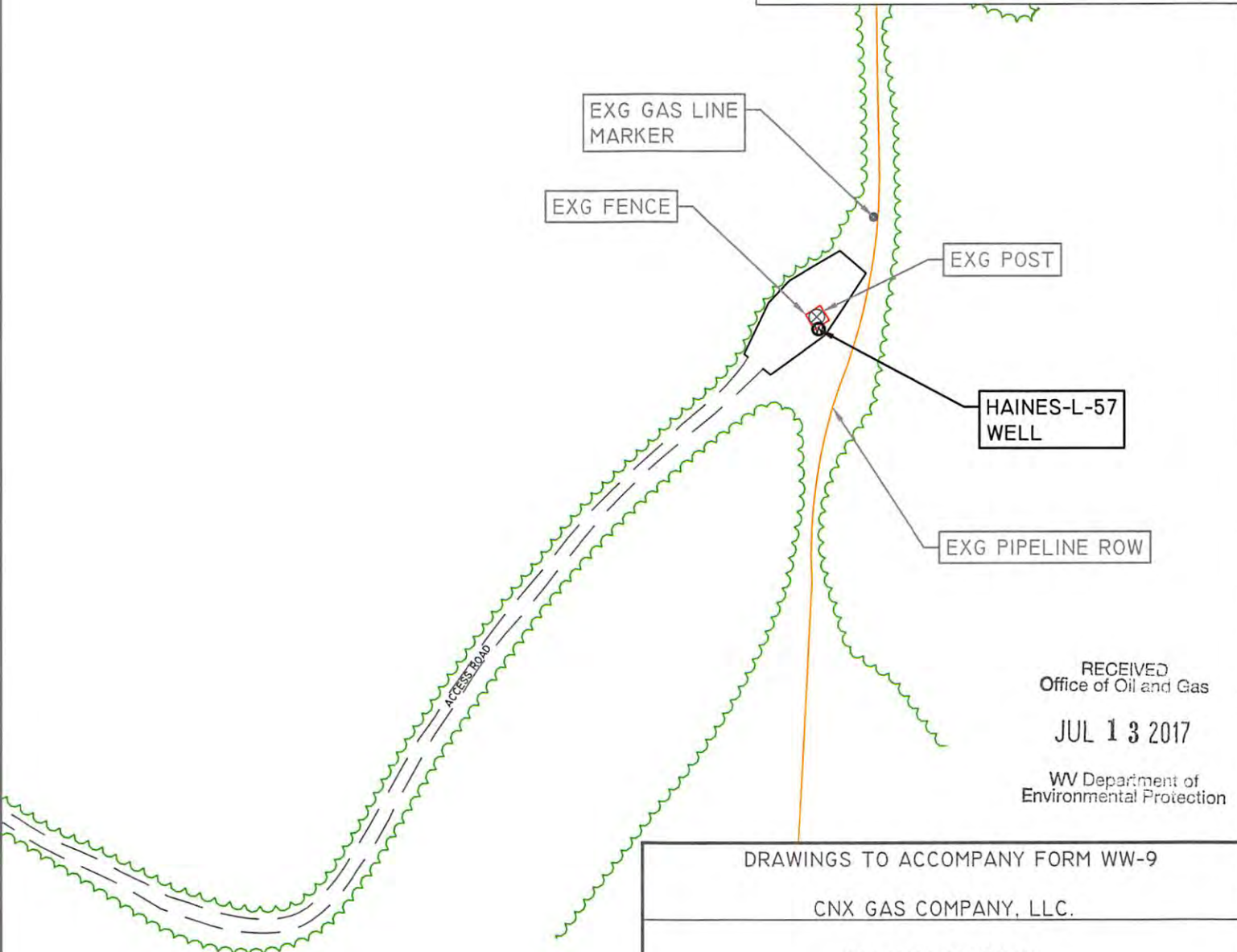
08/11/2017



THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

**LEGEND**

- - - - - EXISTING ROAD
- ~~~~~ EXISTING TREE LINE



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DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY, LLC.

200 HALLAM ROAD

WASHINGTON, PA 15301

WATERSHED: WEST VIRGINIA FORK

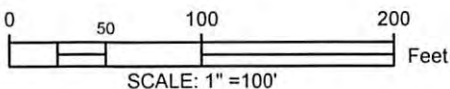
DISTRICT: BATTELLE COUNTY: MONONGALIA

HAINES

QUADRANGLE: MANNINGTON WELL NO: L-57

DATE: 05/23/2017 PAGE 2 OF 3

**08/11/2017**





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LOCATION MAP  
MANNINGTON, WV 7.5M USGS QUADRANGLE  
SCALE: 1"=2000'



**Blue Mountain Inc.**  
Engineers and Land Surveyors  
Woman Owned Small Business

11023 Mason Dixon Hwy.  
Burton, WV 26562-9656  
(304) 662-6486

LOCATION MAP  
GAS WELL PLUGGING  
HAINES-L-57 GAS WELL  
BATTELLE DISTRICT  
MONONGALIA COUNTY, WV  
CNX GAS COMPANY, LLC.  
200 HALLAM ROAD  
WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF
DATE: 05/23/2017
SCALE: 1"=2000'
WATERSHED: WEST VIRGINIA FORK
PAGE 3 OF 3

WW-7  
8-30-06



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

API: 47-061-01463 WELL NO.: L57

FARM NAME: Haines

RESPONSIBLE PARTY NAME: Erika Whetstone

COUNTY: Monongalia DISTRICT: Battelle

QUADRANGLE: Mannington

SURFACE OWNER: HAINES, NOAH V & LORRAINE ARTHUR

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,385,762.695 METERS

UTM GPS EASTING: 556,201.073 METERS GPS ELEVATION: 404.988 METERS (1328.4')

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.

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Office of Oil and Gas  
JUL 13 2017  
WV Department of  
Environmental Protection

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.

Erika Whetstone Permitting Supervisor 6/9/17  
Signature Title Date