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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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, December 30, 2019  
WELL WORK PLUGGING PERMIT  
Coal Bed Methane Well Plugging

CNX GAS COMPANY LLC  
1000 CONSOL ENERGY DR

CANONSBURG, PA 15370

Re: Permit approval for L-65  
47-049-01398-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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-65  
Farm Name: RABER, ARLIE  
U.S. WELL NUMBER: 47-049-01398-00-00  
Coal Bed Methane Well Plugging  
Date Issued: 12/30/2019

## 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.

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### 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.

WW-4B  
Rev. 2/01

1) Date 12/9, 2019  
2) Operator's Well No. L-65  
3) API Well No. 47-049 - 01398

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 1486 Watershed Messer Run  
District Mannington County Marion Quadrangle Mannington

6) Well Operator CNX Gas Company LLC 7) Designated Agent Anthony Kendziora  
Address 1000 Consol Energy Dr. Address 1000 Consol Energy Dr  
Canonsburg, PA 15317 Canonsburg PA 15317

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name Coastal Drilling east LLC  
Address P.O. Box 2327 Address 70 gums Springs Road  
Buckhannon, WV 26201 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 *S. D. W...* Date 12/16/2019

**Well:** L-65 (Raber)

**API#:** 47-049-01398

**District:** Mannington

**County:** Marion

**Elevation:** 1486' (E&S Plans)

**L-65 Proposed Plugging and Abandonment Procedure**

1. Run in and tag TD (~1191'-1224') with wireline or small sandline tools. Confirm TD is inside slotted casing. (Make call to CNX if tagging high to come up with game plan or once has been found)
2. Once TD has been reached in slotted casing proceed to fill slotted casing with pea gravel to (991'-1024') (1 ton= ~20 Cu. Ft. fill)
3. Once pea gravel has been placed in slotted liner verify top of gravel is at or above top of slotted casing
4. Once top of pea gravel has been verified TIH with tubing and prepare to cement
5. Place 50' cement plug on top of pea gravel
6. TOOH with cement string
7. Rig up wireline and tag 50' cement plug
8. TOOH and prepare to run Bond Log on 5 ½" casing if Bond Log tool will go to bottom
9. Run Bond Log from top of cement plug to surface to verify casing is cemented to surface. If cement top if found to not be at surface notify CNX and prepare to pull uncemented casing
10. If cement on 5 ½" is at surface or once uncemented has been pulled prepare to cement well to surface
11. TIH with work string to top of cement plug and cement well to surface
12. TOOH w/ work string and top off well with cement
13. Install 6"x14' monument (10' below grade, 4' above grade). Monument must contain API#, Well Name, Company Name and Date Plugged

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

SDW  
12/16/2019

**Raber L-65**  
Mannington District, Marion WV  
Original Completion : 11/1985  
API #47-049-01398  
Elevation = 1486' (From E&S Plans)

**7" Casing @ 550'**

*Assuming cemented to surface*

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**Packer**

**5 1/2" Casing @ (991'-1024') (Due to elevation variance)**

*Assuming Cemented to surface*

**5 1/2" Slotted Liner ((991'-1024')-(1191'-1224'))**

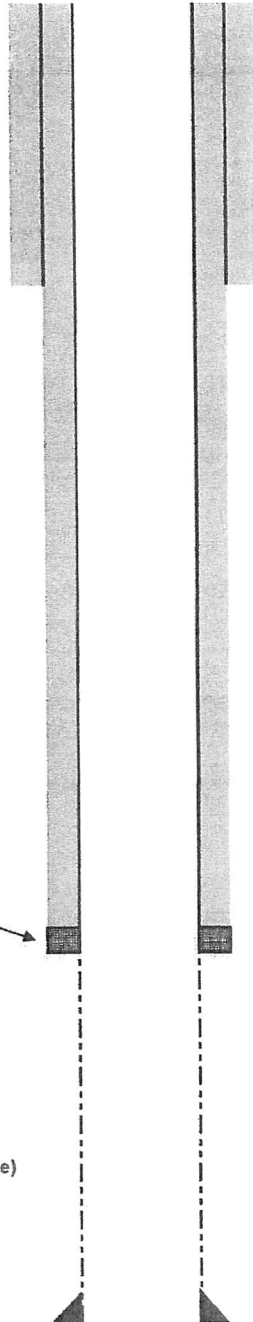
*Range due to elevation difference*

**Coal @ 1181'-1214'**  
*(Range due to elevation difference)*

6 3/4" Hole Size

SPW  
12/6/2019

**TD @ (1191' to 1224')**  
*(Due to elevation difference)*



State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-049-01398 County Marion District Mannington  
Quad Mannington Pad Name Raber L-65 Field/Pool Name \_\_\_\_\_  
Farm name Raber, Arlie Well Number L-65  
Operator (as registered with the OOG) CNX Gas Company LLC  
Address 1000 Consol Energy Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 401614.96 Easting 172805.54  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1486 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

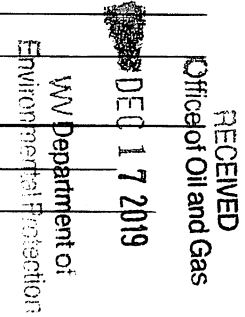
Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s) \_\_\_\_\_

Date permit issued 12/3/2002 Date drilling commenced \_\_\_\_\_ Date drilling ceased \_\_\_\_\_  
Date completion activities began \_\_\_\_\_ Date completion activities ceased \_\_\_\_\_  
Verbal plugging (Y/N) \_\_\_\_\_ Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft \_\_\_\_\_ Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft \_\_\_\_\_ Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft 1181'-1214' Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) N

Reviewed by: \_\_\_\_\_



WR-35  
Rev. 8/23/13

API 47-049 - 01398 Farm name Raber, Arlie Well number L-65

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor							
Surface		7"	550'				
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6.75	5.5	1191'-1224'				
Tubing							
Packer type and depth set		Formation Packer @ 991'-1024'					

Comment Details Variance in depth due to variance in elevation

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		275				Surface	
Tubing							

Drillers TD (ft) 1191'-1224' Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Pittsburgh Coal Seam Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) \_\_\_\_\_

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_ RECEIVED  
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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_ WV Department of  
 Environmental Protection

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_





WR-35  
Rev. 8/23/13

API 47- 049 - 01398

Farm name Raber, Arlie

Well number L-65

**PRODUCING FORMATION(S)**

**DEPTHS**

Pittsburgh Coal Seam      1181-1214 TVD      \_\_\_\_\_ MD

Please insert additional pages as applicable.

GAS TEST     Build up     Drawdown     Open Flow      OIL TEST     Flow     Pump

SHUT-IN PRESSURE    Surface 1      psi      Bottom Hole \_\_\_\_\_ psi      DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW      Gas                  Oil                  NGL                  Water                  GAS MEASURED BY  
95      mcfpd      \_\_\_\_\_ bpd      \_\_\_\_\_ bpd      \_\_\_\_\_ bpd       Estimated     Orifice     Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
Pittsburgh Coal	0		0		

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Please insert additional pages as applicable.

Drilling Contractor \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by Patrick Taylor Telephone 724-486-4150  
Signature *[Signature]* Title Sr. Engineer Date 12/3/2019

2  
Issue

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

60B

1) Well Operator: CNX Gas Company, LLC (North) 2) Well Name St. Leo Gob Well No. L-65

3) Operator's Well Number L-65 4) Elevation 1453'

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: 1191 feet

8) Approximate Fresh Water Strata Depths: Not known

9) Approximate Salt Water Depths: Not known

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10) Approximate Coal Seam Depths: Pittsburgh @ 1181'

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-65) 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						

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NOV 19 2002  
WV Department of  
Environmental Protection

PACKERS:

*See attachment  
GCS*

**PLEASE SEE ATTACHED WELL REPORT**

*OK S.M*

*11-15-02*

**For Office of Oil and Gas Use Only**

Fee(s) paid:   
  Well Work Permit   
  Reclamation Fund   
  WPCP  
 Plat   
 WW-9   
 WW-5B   
 Bond \_\_\_\_\_   
 Agent  
 (Type)

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WV Department of  
Environmental Protection

CONSOLIDATION COAL COMPANY  
1800 WASHINGTON ROAD  
PITTSBURGH PA

WELL NUMBER L-65

MINE Loveridge

DATE STARTED November 1985

DATE COMPLETED November 1985

CONTRACTOR Unknown

TOTAL DEPTH OF HOLE 1,191 (APPROX)  
[In Feet]

CASING IN HOLE: [In Feet]	SLOTTED	<u>200</u>
	7-INCH	<u>550</u>
	5-INCH	<u>1,191</u>

PACKER SIZE 3' 6"

CEMENT 275 [SKS]

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Environmental Protection

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Office of Oil & Gas  
Permitting

NOV 13 2002

WV Department of  
Environmental Protection

47-049-01398P

WW-4A  
Revised 6-07

1) Date: 12/9/19  
2) Operator's Well Number  
L-65  
3) API Well No.: 47 - 049 - 01398

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

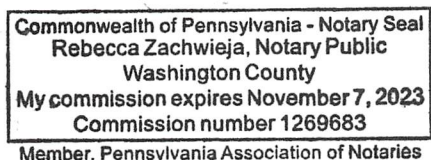
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Brenda Joyce Raber</u>	Name <u>Consolidated Coal Company</u>
Address <u>304 Messers Run Rd</u>	Address <u>46226 National Road</u>
<u>Metz, WV 26585</u>	<u>Saint Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Brenda Joyce Raber</u>
	Address <u>304 Messers Run Rd</u>
	<u>Metz, WV 26585</u>
(c) Name _____	Name <u>Consolidated Coal Company</u>
Address _____	Address <u>46226 National Road</u>
	<u>Saint Clairsville, OH 43950</u>
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>Consolidated Coal Company</u>
<u>Buckhannon, WV 26201</u>	Address <u>46226 National Road</u>
Telephone <u>304-3987583</u>	<u>Saint Clairsville, OH 43950</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.

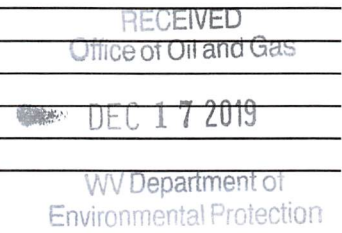
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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.



*Commonwealth of Pennsylvania  
County of Washington*

Well Operator CNX Gas Company LLC  
 By: Raymond Hoon  
 Its: Senior Project Manager  
 Address 1000 Consol Energy Dr  
Canonsburg, PA 15317  
 Telephone 724-485-4000



Subscribed and sworn before me this 12<sup>th</sup> day of December 2019  
Rebecca Zachwieja Notary Public  
 My Commission Expires November 7, 2023

**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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-9  
(5/16)

API Number 47 - 049 - 01398  
Operator's Well No. L-65

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) Messer Run 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: NA

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

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 return)

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

S200  
12/16/2019

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

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

Additives to be used in drilling medium? na

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) na

-Landfill or offsite name/permit number? na

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 Raymond Hoon

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Company Official (Typed Name) Raymond Hoon

DEC 17 2019

Company Official Title Senior Project Manager

WV Department of  
Environmental Protection

Commonwealth of Pennsylvania  
County of Washington

Subscribed and sworn before me this 12 day of December, 20 19

Rebecca Zachwieja Notary Public

My commission expires November 7, 2023

Commonwealth of Pennsylvania - Notary Seal  
Rebecca Zachwieja, Notary Public  
Washington County  
My commission expires November 7, 2023  
Commission number 1269683  
Member, Pennsylvania Association of Notaries

Form WW-9

Operator's Well No. L-65

Proposed Revegetation Treatment: Acres Disturbed 4.25 acres 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	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	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: [Signature]

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

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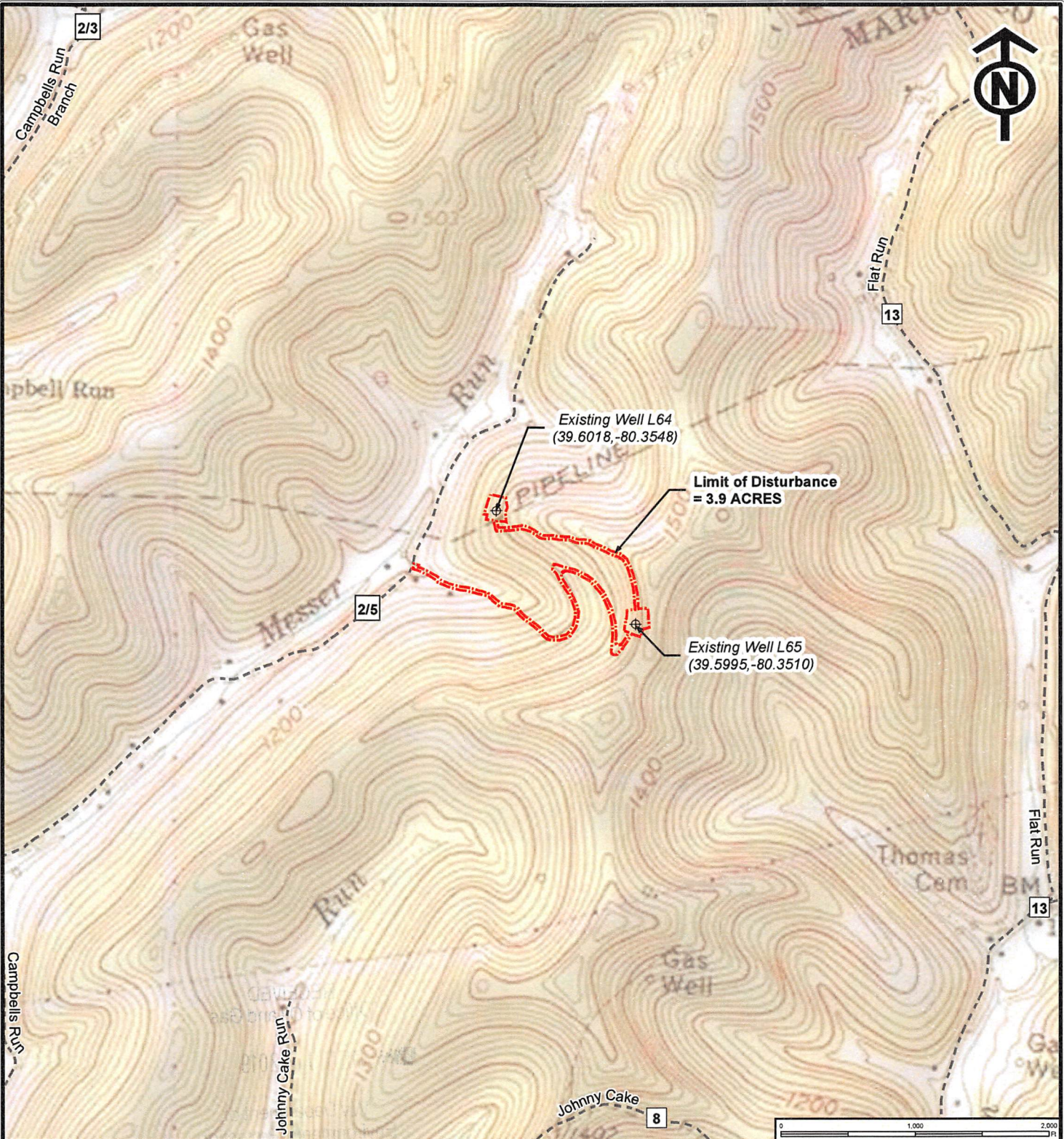
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Title: OOG Inspector

Date: 12/16/2019

Field Reviewed? ( ) Yes ( X ) No



**LEGEND**

- ⊕ Existing Well
- - - - Limit of Disturbance
- - - - Roads

Prepared By:



www.keystoneconsultants.net 412-278-2100

REV	DESCRIPTION	DATE
DWN BY: GDM	APR BY: RDM	DATE: 10/2/2019



**L64, L65 Well Plugging  
Site Location Topographic Map**

Marion County, WV

DRAWING NUMBER: 001

SCALE: 1" = 1,000 feet

SHEET: 1 OF 2



WW-7  
8-30-06



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

API: 4704901398 WELL NO.: L65

FARM NAME: Raber

RESPONSIBLE PARTY NAME: CNX Gas Company

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Mannington

SURFACE OWNER: Brenda J Raber

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

UTM GPS NORTHING: 4383511.30

UTM GPS EASTING: 555718.94 GPS ELEVATION: 452.68 m / 1485.16 ft

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 \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS X : Post Processed Differential X

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.

Raymond  
Signature

Project Manager  
Title

12-12-19  
Date

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