



west virginia department of environmental protection

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

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

Wednesday, October 11, 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-114
47-061-01454-00-00

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-114
Farm Name: PHILLIPS, FREDA L.
U.S. WELL NUMBER: 47-061-01454-00-00
Coal Bed Methane Well / Plugging
Date Issued: 10/11/2017

Promoting a healthy environment.

10/13/2017

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

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. L114
3) API Well No. 47-061 - 01454

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON A COAL BED METHANE WELL

4) Well Type: Oil ____ / Gas x / Liquid injection ____ / Waste disposal ____ /
(If "Gas, Production x or Underground storage ____) Deep ____ / Shallowx

5) Location: Elevation 337.642m 1107.74 ft Watershed West Virginia Fork
District Battelle County Monongalia Quadrangle Wadestown

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.

RECEIVED
Office of Oil and Gas
SEP 26 2017
WV Department of
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 Gayne J Knitowski Date 9/20/2017

10/13/2017

Plugging Work Order for Phillips L-114

API Number 47-061-01454

Elevation 1186'

Original Permit Issued- 9/2/2002

1. Verify TD and casing volume (~850')
2. Set CIBP at lowest attainable depth (Stay above slotted liner if present)
3. ~~Grout from surface (-170sks)~~
4. Install 4" x 14' monument (10' below grade, 4' above grade) API 47-061-01451
MINIMUM DIAMETER IS 6".

Work Order approved by Inspector _____ Date: _____

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

MSK
9/20

- Remove/pull casing
- Pump Class A cement from bottom hole plug to surface
- Reclaim site ASAP

RECEIVED
Office of Oil and Gas

SEP 26 2017

WV Department of
Environmental Protection

WR-35

DATE: September 2, 2004
API#: 47-6101454

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

Well Operator's Report of Well Work

Farm Name: Phillips, Freda L. Operator Well No.: L-114

LOCATION: Elevation: 1186 Quadrangle: Wadestown

District: Battelle County: Monongalia
Latitude: 8154.0 Feet South of 39 Deg. 40 Min. 00 Sec.
Longitude: 2820.0 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: 1800 Washington Road Pittsburgh, PA 15241				
Agent: Edwin Merrifield				
Inspector: Steve Mossor				
Date Permit Issued: 9/17/2002				
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): 858				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 848				

RECEIVED
Office of Oil and Gas

SEP 26 2017

WV Department of
Environmental Protection

OPEN FLOW DATA

Producing formation	<u>Pittsburgh Coal Seam</u>	Pay zone depth (ft)	<u>848</u>	
Gas: Initial open flow	<u>8</u> MCF/d	Oil: Initial open flow	<u>0</u> Bbl/d	
Final open flow	<u>8</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

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

hi onow

10/13/2017

061-01454-C

CONSOLIDATION COAL COMPANY
1800 WASHINGTON ROAD
PITTSBURGH PA

WELL NUMBER L-114

MINE Loveridge

DATE STARTED 7/20/1997

DATE COMPLETED 7/29/1997

CONTRACTOR Gene D. Yost & Son, Inc.

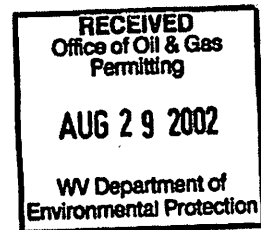
TOTAL DEPTH OF HOLE 858 (APPROX)
[In Feet]

CASING IN HOLE: SLOTTED 200
[In Feet]

7-INCH None
8-INCH 658

PACKER SIZE 3' 6"

CEMENT 170 [SKS]



61-014540 F
061-01454-C

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

1 652

1) Well Operator: CNX Gas Company, LLC (North) 2) Well Name St. Leo Gob Well No. L-114

3) Operator's Well Number L-114 4) Elevation 1186'

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: 858 feet

8) Approximate Fresh Water Strata Depths: Not known

9) Approximate Salt Water Depths: Not known

10) Approximate Coal Seam Depths: Pittsburgh @ 848'

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-114) 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

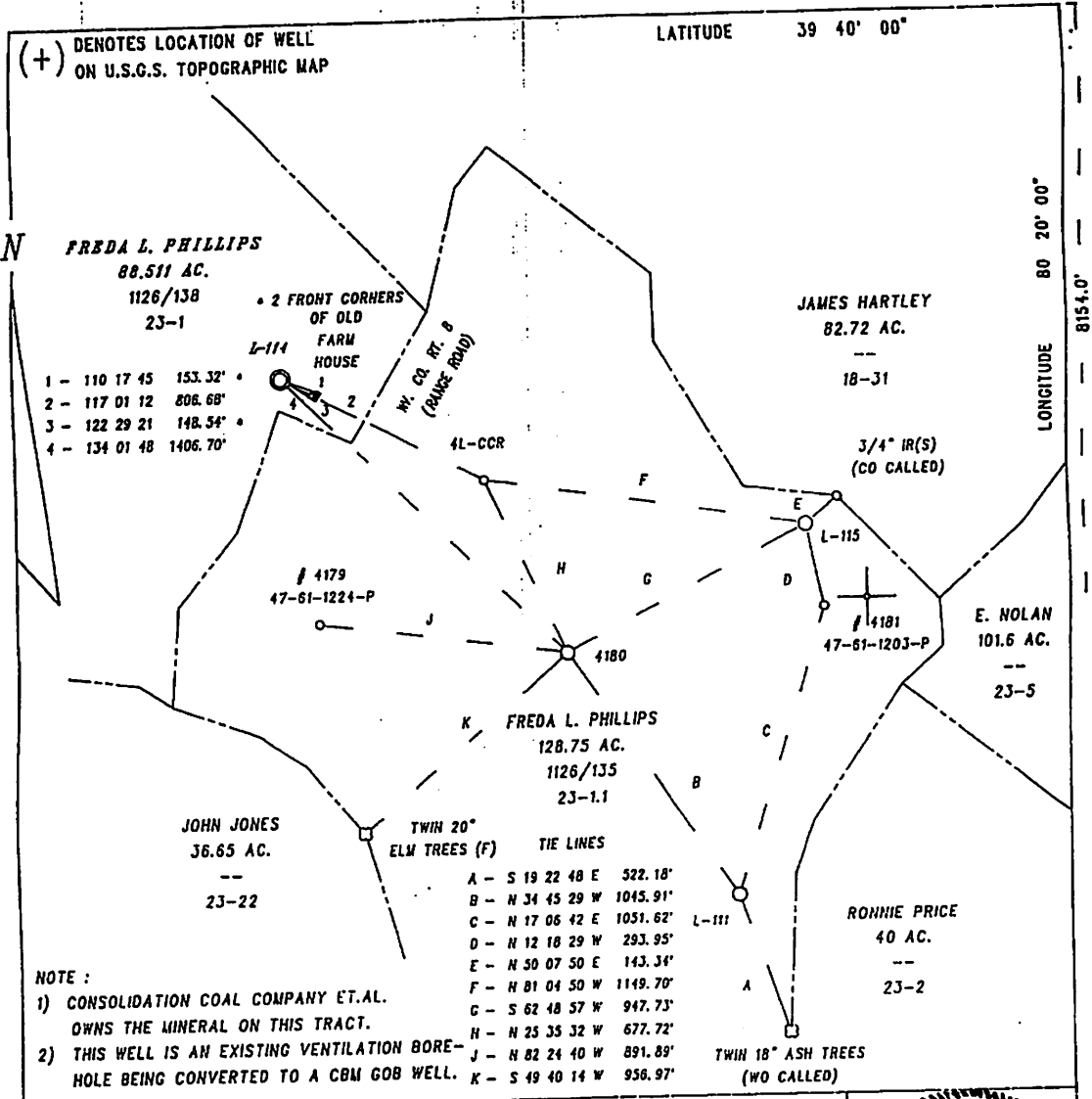
(b) If yes, please attach to this Application a plan and design for the well which will protect all workable coal seams which will be penetrated by the well.

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.

RECEIVED Office of Oil & Gas Permitting AUG 29 2002 WV Department of Environmental Protection
--

6101454CP

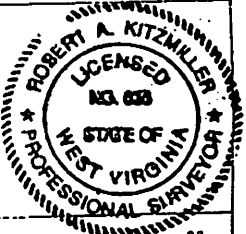


FILE NO. 02-HH-15
 DRAWN BY: R.A. KITZMILLER
 SCALE: 1 : 500'
 MIN. DEGREE OF ACCURACY: 1 / 200'
 PROVEN SOURCE OF ELEVATION: _____

 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. 635



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

DATE JULY 10, 20 02
 OPERATOR'S WELL NO. L-114
 API WELL NO. _____
47-061-01454C
 STATE COUNTY PERMIT NO.

WELL TYPE: OIL GAS CBM LIQUID INJECTION WASTE DISPOSAL
 IF "GAS", PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1186' WATERSHED RANGE RUN OF WEST VIRGINIA FORK OF DUNKARD CREEK
 DISTRICT BATTELLE COUNTY MONONGALIA
 QUADRANGLE WADESTOWN NEAREST TOWN ST. LEO

SURFACE OWNER FREDA L. PHILLIPS ACREAGE 88.511 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. _____
 PITTSBURGH ESTIMATED DEPTH 913'

TARGET FORMATION PITTSBURGH DESIGNATED AGENT EDWIN L. MERRIFIELD
 WELL OPERATOR CNX GAS COMPANY LLC. (NORTH) ADDRESS 116 1/2 HUNSAKER STREET
 ADDRESS 1800 WASHINGTON ROAD ADDRESS FAIRMONT, WV. 26554
PITTSBURGH, PA. 15421-1421

PRECISION SURVEYS - FORM IV-6

MONO COUNTY PERMIT NO. 1454C

RECEIVED Office of Oil and Gas

SEP 26 2017

WV Department of Environmental Protection

10/13/2017

RECEIVED
Office of Oil and Gas
SEP 26 2017
WV Department of
Environmental Protection

1) Date: _____
2) Operator's Well Number
L114
3) API Well No.: 47 - 061 - 01454

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>JOHN & SHIRLEY JONES</u>	Name <u>The Marion County Coal Company</u>
Address <u>1013 RANGE RUN RD</u>	Address <u>46226 National Rd W</u>
<u>WANA WV 26590</u>	<u>St. Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>CONSOL Mining Company LLC</u>
	Address <u>1000 Consol Energy Drive</u>
	<u>Canonsburg, PA 15317</u>
(c) Name _____	Name <u>Esther Elizabeth Yost</u>
Address _____	Address <u>20406 1st Ave E</u>
	<u>Spanaway, WA 98387</u>
6) Inspector <u>Gayne J Knitowski</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 108</u>	Name <u>n/a</u>
<u>Gormanian WV 26720</u>	Address _____
Telephone <u>304-546-8171</u>	_____

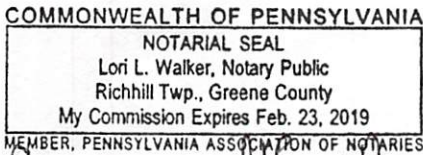
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator CNX Gas Company, LLC
 By: Erika Whetstone
 Its: Permitting Supervisor
 Address 1000 Consol Energy Drive
Canonsburg, PA 15370
 Telephone (724) 485-4035



Commonwealth of Pennsylvania County of Washington
 Subscribed and sworn before me this 7th day of September 2017
Lori L. Walker Notary Public
 My Commission Expires February 23, 2019

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.

6101454CP

RECEIVED
Office of Oil and Gas

WW-9
(5/16)

SEP 26 2017

API Number 47 - 061 - 01454
Operator's Well No. _____

WV Department of
Environmental Protection

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 Wadestown

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. _____

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) _____

-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

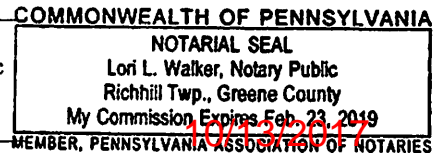
Company Official (Typed Name) Erika Whetstone

Company Official Title Permitting Supervisor

Commonwealth of Pennsylvania County of Washington
Subscribed and sworn before me this 26 day of September, 2017

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

RECEIVED
Office of Oil and Gas

SEP 26 2017

WV Department of
Environmental Protection

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: [Signature]

Comments: Retain site ASAP

Title: INSPECTION

Date: 9/20/2017

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

RECEIVED
Office of Oil and Gas
SEP 26 2017
WV Department of
Environmental Protection

SIGHT DISTANCE LIMIT
SPEED LIMIT: 25 MPH
REQUIRED DISTANCE - 173.0'
MEASURE DISTANCE - 550.0'

PHILLIPS-L-114
LAT: 39.644115°
LONG: 80.343252°

S-3
PERENNIAL STREAM

EXG CULVERT
(2 X 34")

RANGE RUN ROAD
SPEED LIMIT 25
(CR 8)

BARN

FENCE

PAVED
DRIVEWAY

HOUSE

S-1
INTERMITTENT STREAM

EXG CULVERT

EXG CULVERT

SIGHT DISTANCE LIMIT
SPEED LIMIT: 25 MPH
REQUIRED DISTANCE - 173.0'
MEASURE DISTANCE - 488.0'

EXG GAS LINE

DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY, LLC

200 HALLAM ROAD

WASHINGTON, PA 15301

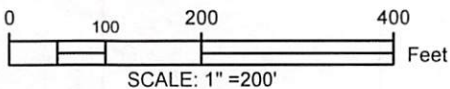
WATERSHED: WEST VIRGINIA FORK

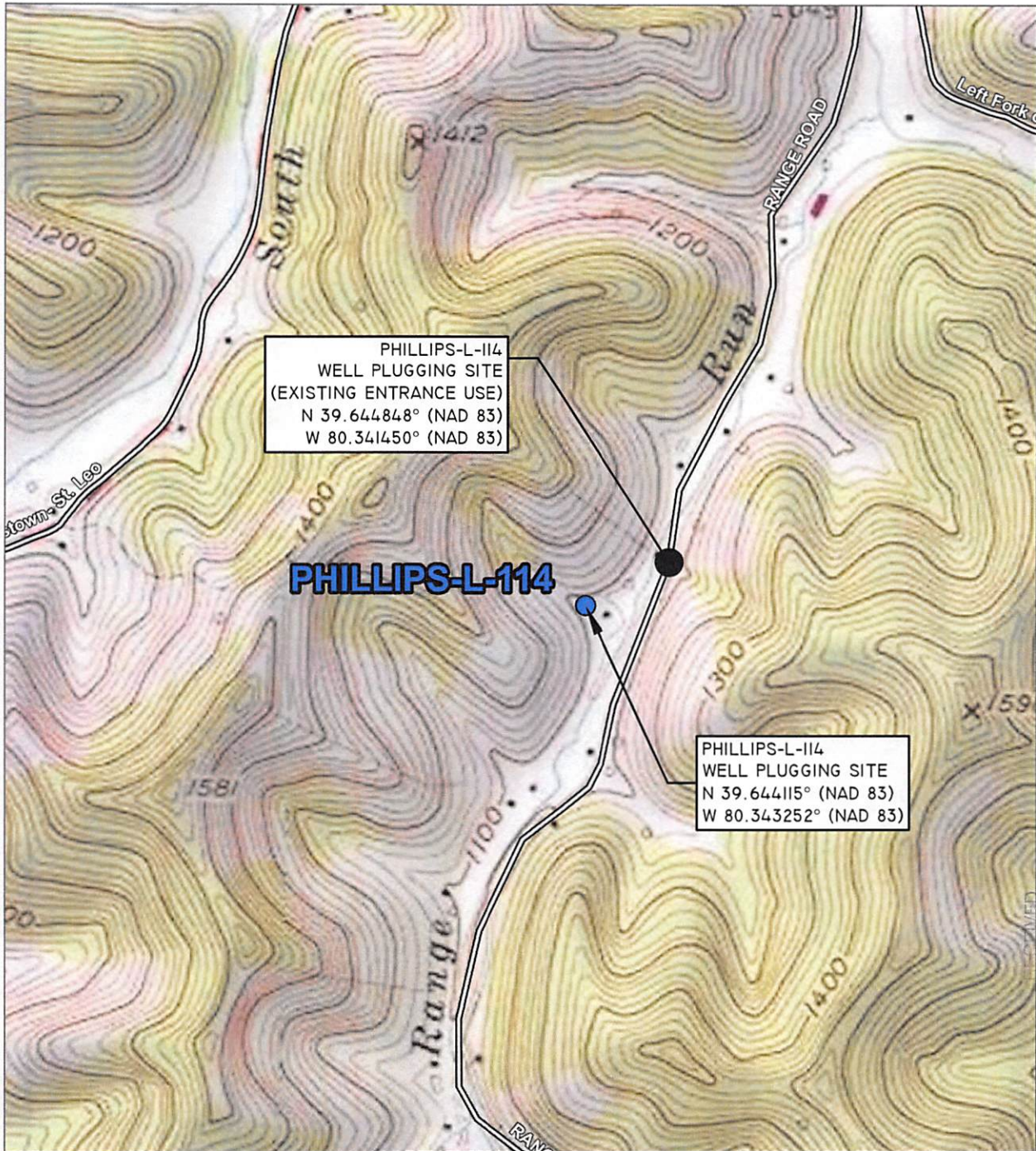
DISTRICT: BATTELLE COUNTY: MONONGALIA

QUADRANGLE: WADESTOWN WELL NO: PHILLIPS-L-114

DATE: 08/28/2017 PAGE 1 OF 2

10/13/2017





Office of Oil and Gas

SEP 26 2017

West Virginia Department of Environmental Protection

LOCATION MAP
 WADESTOWN, WV 7.5M USGS QUADRANGLE
 SCALE: 1"=1000'



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
 PHILLIPS-L-114 GAS WELL
 BATTELLE DISTRICT
 MONONGALIA COUNTY, WV
 CNX GAS COMPANY, LLC
 200 HALLAM ROAD
 WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF
DATE: 08/28/2017
SCALE: 1"=1000'
WATERSHED: WEST VIRGINIA FORK
PAGE <u>2</u> OF <u>2</u>

10/13/2017

WW-7
8-30-06

RECEIVED
Office of Oil and Gas

SEP 26 2017

WV Department of
Environmental Protection



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

API: 47-061-01454 WELL NO.: L114

FARM NAME: Phillips

RESPONSIBLE PARTY NAME: Erika Whetstone

COUNTY: Monongalia DISTRICT: Battelle

QUADRANGLE: Wadestown

SURFACE OWNER: JOHN & SHIRLEY JONES

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,388,464.735 meters

UTM GPS EASTING: 556,349.986 meters GPS ELEVATION: 1107.74ft

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
Survey grade GPS x : Post Processed Differential X
Real-Time Differential _____
Mapping Grade GPS _____ : Post Processed Differential _____
Real-Time Differential _____

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Erika J. Whetstone
Signature

Permitting Supervisor
Title

9/7/17
Date