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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, December 18, 2017  
WELL WORK PERMIT  
Vertical / Plugging

CONSOL GAS COMPANY  
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 10754  
47-001-00254-00-00

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: 10754  
Farm Name: JOHNSON & PITZER  
U.S. WELL NUMBER: 47-001-00254-00-00  
Vertical / Plugging  
Date Issued: 12/18/2017

Promoting a healthy environment.

12/22/2017

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## 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.

WW-4B  
Rev. 2/01

1) Date \_\_\_\_\_, 20 17  
2) Operator's  
Well No. 10754  
3) API Well NO. 47-001 - 00254

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  \_\_\_\_/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production  or Underground storage \_\_\_\_ ) Deep \_\_\_\_/ Shallow

5) Location: Elevation 510.54 m = 1675ft Watershed Tygart Lake-Tygart Valley River  
District Cove County Barbour Quadrangle Thornton

6) Well Operator Consol Gas Company 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 9) Plugging Contractor  
Name Kenneth Greynolds Name Coastal Drilling East LLC  
Address 613 Broad Run Road Address 70 Gums Springs Road  
Jane Lew WV 26378 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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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 *Kenneth Greynolds* Date 10-12-17

*See added note*

12/22/2017

**Plugging Work Order for Johnson-Pitzer 10754****API Number 47-001-00254****Elevation 1676'****Original Completion Date 12/06/1965**

1. MIRU rig and support equipment.
2. Blow well down and load with gel to control well.
3. TOOH 2" tubing. (~5124)
4. Verify TD (~5228) Note: records indicate plugged back to 3096' *TO BRACK UPPER ZONE,*
5. Run CBL to determine TOC on 4-1/2" casing (~1600') ? *maybe 2600'. Per 35CSR4-13.6*
6. TIH with workstring to attainable bottom and cement to TOC in 500' lifts.
7. Cut 4-1/2" casing at TOC and TOOH. *MUST DETERMINE CEMENT TOP ON 9 5/8"*
8. RIH with workstring and CTS. *CASING, CUT AND ATTEMPT TO PULL AT*
9. TOOH with workstring and top off cement. *LEAST 150% OF WEIGHT*
10. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-00100254

Work Order approved by Inspector



Date:

10-12-17

Note: All cement will be Class A. All spacers between plugs will be 6% gel. State inspector is to be kept informed of activities and deviations from procedure as required.

TOC of 4 1/2"  $\approx \pm 2650'$  FROM SURFACE.  
JWH

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12/22/2017



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle THORNTON

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Permit No. BAR-254

Company Consolidated Gas Supply Corporation  
Address Clarksburg, W. Va.  
Farm Johnson-Pitzer Acres 100  
Location (waters) \_\_\_\_\_  
Well No. 10754 Elev 1676'  
District COVE County Barbour  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced 9-11-65  
Drilling completed 9-23-65  
Date Shot Not shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 10ths Water in \_\_\_\_\_ Inch  
10ths Merc. in \_\_\_\_\_ Inch  
Volume Show \_\_\_\_\_ Cu. Ft.  
Rock Pressure 850# lbs. 2 1/2 hrs.  
Oil None bbls. 1st 24 hrs.  
WELL ACIDIZED (DETAILS) No  
WELL FRACTURED (DETAILS) 12-6-65

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
<del>10</del> 9-5/8"	816	816	Depth set
8 1/4			
6 3/4			Perf. top
5 3/16			Perf. bottom
4 1/2	5228	5228	Perf. top
3			Perf. bottom
2	5124	5124	
Liners Used			

Attach copy of cementing record. 9-5/8" with 46 bags  
CASING CEMENTED. SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
Amount of cement used (bags) 4 1/2" with 598 bags  
Name of Service Co. Halliburton  
COAL WAS ENCOUNTERED AT 165 FEET 48 INCHES  
520 FEET 48 INCHES 670 FEET 60 INCHES  
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 102 M  
ROCK PRESSURE AFTER TREATMENT 14 days ~~XXXXXXXX~~ 1580#  
Fresh Water None Feet \_\_\_\_\_ Salt Water None Feet \_\_\_\_\_  
Producing Sand Elk & Speechley Depth Sea log

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			9	25			
Sand & Shale			25	165			
Coal			165	169			
Sand & Shale			169	520			
Coal			520	524			
Shale & Sand			524	670			
Coal			670	675			
Sand			675	705			
Red Rock & Shale			705	825			
Sand & Shale			825	1240			
BIG LIME			1240	1420			
Shale & Red Rock			1420	1665			
GANTZ			1665	1750			
Red Rock & Shale			1750	2280			
FIFTH SAND			2280	2335			
Sand & Shale SPEECHLEY			2335	3820			
RILEY			3820	3945	Gas	2985-3044	
Shale & Sand			3945	4125			
BENSON			4125	4160			
Sand & Shale			4160	5130			
ELK			5130	5296	Gas	5134-38'	
Shale			5140	5296			
Total Depth				5296'			



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HOPE NATURAL GAS COMPANY

Bar-254

NEW WELL X  
D.D. \_\_\_\_\_  
OLD WELL \_\_\_\_\_

Report on Hydraulic Fracturing

WELL NO. 10754  
MAP 29 A  
SQUARES N. 36 14 W

FARM NAME Johnson-Kitzer Consolidated Gas Supply Corp. DISTRICT Cove COUNTY Barbour STATE W.Va.  
OPERATOR Corp. SERVICE COMPANY Dowell, Inc. DATE 11-22-65

FORMATION Slk TOP XXXX 5130 BOTTOM X98W 5140

PAY ZONE: TOP 5132 BOTTOM 5140 WAS FORMATION SHOT: \_\_\_\_\_

TOTAL DEPTH 5311 PLUGGED BACK TO 5198 WITH Cement

SURVEY: CALIPER X TEMPERATURE X GAMMA RAY X OTHER \_\_\_\_\_

O.F. ORIGINAL \_\_\_\_\_ MCF. R.P. \_\_\_\_\_ # IN \_\_\_\_\_ HOURS

O.F. BEFORE FRAC. \_\_\_\_\_ MCF. R.P. \_\_\_\_\_ # IN \_\_\_\_\_ HOURS

PRODUCTION STRING: SIZE 4 1/2 LENGTH 5228 CEMENTED WITH 824 cu. ft. BAGS OF Possum CEMENT

COMPLETION: OPEN HOLE \_\_\_\_\_ PERFORATIONS \_\_\_\_\_ NUMBER \_\_\_\_\_ TYPE \_\_\_\_\_

WAS LINER SET: \_\_\_\_\_ SIZE \_\_\_\_\_ TOP \_\_\_\_\_ BOTTOM \_\_\_\_\_

INJECTION STRING: SIZE \_\_\_\_\_ LENGTH \_\_\_\_\_ PACKER: SET @ \_\_\_\_\_ SIZE \_\_\_\_\_

PACKER (CONT): TYPE \_\_\_\_\_ MAKE \_\_\_\_\_ CEMENTED WITH \_\_\_\_\_ BAGS OF \_\_\_\_\_ CEMENT

(TO BE FILLED IN BY SERVICE ENGINEER)

TYPE OF TREATMENT Riverfrac VOLUME OF FLUID REQUIRED TO FILL HOLE 79.7 BBL. XXX

TREATMENT--BREAKDOWN

FLUID: KEROSENE \_\_\_\_\_ GALS  
WATER 98 XXX BBL.  
M.F.A. \_\_\_\_\_ GALS  
M.F.S. 12 XXX BBL.  
TOTAL 110 XXX BBL.

BREAKDOWN PRESSURE: MAXIMUM 3500 #  
FINAL 3400 #  
TIME 1 MINUTES  
INJECTION RATE: 30.0 BBL. XXX PER MINUTE  
VISCOSITY \_\_\_\_\_ (SSU) SP. GR. \_\_\_\_\_

TREATMENT--FRACTURE

FLUID: KEROSENE \_\_\_\_\_ GALS  
WATER 715 XXX BBL.  
GEL AGENT \_\_\_\_\_ GALS  
J-100 150 XXX Lbs.  
J-201 782 XXX Lbs.  
TOTAL 715 XXX BBL.

SAND: AMOUNT 20,000 POUNDS  
SIZE 20-40  
PRESSURE: MAXIMUM 3500 #  
FINAL 3000 #  
TIME 25.0 MINUTES  
INJECTION RATE: START OF GEL 30.0 BBL. XXX PER MINUTE  
AVERAGE 31.0 BBL. XXX PER MINUTE  
VISCOSITY \_\_\_\_\_ (SSU) SP. GR. \_\_\_\_\_

TREATMENT--FLUSH

FLUID: KEROSENE \_\_\_\_\_ GALS  
WATER 80 XXX BBL.  
TOTAL 80 XXX BBL.

PRESSURE: MAXIMUM 3000 #  
FINAL 3000 #  
TIME 3 MINUTES  
INJECTION RATE: 29.0 BBL. XXX PER MINUTE  
VISCOSITY \_\_\_\_\_ (SSU) SP. GR. \_\_\_\_\_

TOTAL FLUID USED 905 XXX BBL.

COMPLETION

PRESSURE 10 MINUTES AFTER PUMPS SHUT DOWN \_\_\_\_\_ #  
PRESSURE AT END OF SHUT IN PERIOD \_\_\_\_\_ IN \_\_\_\_\_ HOURS  
FLUID RECOVERED \_\_\_\_\_ BBL. IN 24 HOURS \_\_\_\_\_ IN 48 HOURS \_\_\_\_\_ HOURS  
FLUID REMAINING IN FORMATION \_\_\_\_\_ GALS VOLUME OF SAND RECOVERED \_\_\_\_\_

O.F. AFTER FRAC. 69.9 MCF. R.P. 920 # IN 19 HOURS

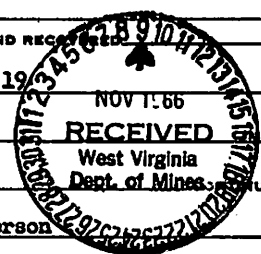
REMARKS: \_\_\_\_\_

COPY TO: C. D. REESE  
LAND DEPARTMENT  
DIVISION SUPERINTENDENT  
DISTRICT SUPERINTENDENT

REPORTED BY: P.D. Anderson

DATE: 12-3-65

WORKING DISTRICT: Ridgeport District



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Bu-254

HOPE NATURAL GAS COMPANY

Report on Hydraulic Fracturing

NEW WELL X  
D.D. \_\_\_\_\_  
OLD WELL \_\_\_\_\_

WELL NO. 10754  
MAP 29A  
SQUARES N. 36 34 W

FARM NAME Johnson-Pitzer Consolidated Gas Supply DISTRICT Cove COUNTY Barbour STATE W.Va.

OPERATOR Corp. SERVICE COMPANY Dowell, Inc. DATE 12-6-65

FORMATION Balltown TOP 2980 BOTTOM 3048

PAY ZONE: TOP 2985 BOTTOM 3044 WAS FORMATION SHOT: \_\_\_\_\_

TOTAL DEPTH 5296 PLUGGED BACK TO 3096 WITH McCullough Plug

SURVEY: CALIPER X TEMPERATURE X GAMMA RAY X OTHER \_\_\_\_\_

O.F. ORIGINAL \_\_\_\_\_ MCF. R.P. \_\_\_\_\_ # IN \_\_\_\_\_ HOURS

O.F. BEFORE FRAC. \_\_\_\_\_ MCF. R.P. \_\_\_\_\_ # IN \_\_\_\_\_ HOURS

PRODUCTION STRING: SIZE 4 1/2 LENGTH 5228 CEMENTED WITH 824 Cu.ft. BAGS OF Posmix CEMENT

COMPLETION: OPEN HOLE \_\_\_\_\_ PERFORATIONS 2985-2989 NUMBER 16 TYPE \_\_\_\_\_

WAS LINER SET: \_\_\_\_\_ SIZE \_\_\_\_\_ TOP \_\_\_\_\_ BOTTOM \_\_\_\_\_

INJECTION STRING: SIZE \_\_\_\_\_ LENGTH \_\_\_\_\_ PACKER: SET @ \_\_\_\_\_ SIZE \_\_\_\_\_

PACKER (CONTD): TYPE \_\_\_\_\_ MAKE \_\_\_\_\_ CEMENTED WITH \_\_\_\_\_ BAGS OF \_\_\_\_\_ CEMENT

(TO BE FILLED IN BY SERVICE ENGINEER)

TYPE OF TREATMENT Riverfrac VOLUME OF FLUID REQUIRED TO FILL HOLE 47.2 BBL. ~~XXX~~

TREATMENT - BREAKDOWN

FLUID: KEROSENE \_\_\_\_\_ GALS  
WATER 73 ~~XXX~~ BBL.  
M.C.A. \_\_\_\_\_ GALS  
Mud Acid 12 ~~XXX~~ BBL.  
TOTAL 85 ~~XXX~~ BBL.

BREAKDOWN PRESSURE: MAXIMUM 3250 #  
FINAL 3200 #  
TIME 1 MINUTES  
INJECTION RATE: 48.0 BBL. ~~XXX~~ PER MINUTE  
VISCOSITY \_\_\_\_\_ (SSU) SP. GR. \_\_\_\_\_

TREATMENT - FRACTURE

FLUID: KEROSENE \_\_\_\_\_ GALS  
WATER 909 ~~XXX~~ BBL.  
GEL AGENT \_\_\_\_\_ GALS  
J-100 150 ~~XXX~~ Lbs.  
J-101 782 ~~XXX~~ Lbs.  
TOTAL 909 ~~XXX~~ BBL.

SAND: AMOUNT 72,000 POUNDS  
SIZE 20-40  
PRESSURE: MAXIMUM 3200 #  
FINAL 2900 #  
TIME 30 MINUTES  
INJECTION RATE: START OF GEL 28.0 BBL. ~~XXX~~ PER MINUTE  
AVERAGE 31.3 BBL. ~~XXX~~ PER MINUTE  
VISCOSITY \_\_\_\_\_ (SSU) SP. GR. \_\_\_\_\_

TREATMENT - FLUSH

FLUID: KEROSENE \_\_\_\_\_ GALS  
WATER 50 ~~XXX~~ BBL.  
TOTAL 50 ~~XXX~~ BBL.

PRESSURE: MAXIMUM 3000 #  
FINAL 3000 #  
TIME 1 1/2 MINUTES  
INJECTION RATE: 31.5 BBL. ~~XXX~~ PER MINUTE  
VISCOSITY \_\_\_\_\_ (SSU) SP. GR. \_\_\_\_\_

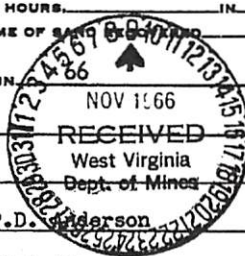
TOTAL FLUID USED 1044 ~~XXX~~ BBL.

COMPLETION

PRESSURE 10 MINUTES AFTER PUMPS SHUT DOWN: \_\_\_\_\_ #  
PRESSURE AT END OF SHUT IN PERIOD: \_\_\_\_\_ IN \_\_\_\_\_ HOURS  
FLUID RECOVERED: \_\_\_\_\_ BBL. IN 24 HOURS. \_\_\_\_\_ IN 48 HOURS. \_\_\_\_\_ IN \_\_\_\_\_ HOURS  
FLUID REMAINING IN FORMATION: \_\_\_\_\_ GALS VOLUME OF SAND: \_\_\_\_\_

O.F. AFTER FRAC. 33.3 MCF. R.P. 840 # IN \_\_\_\_\_ HOURS

REMARKS: 500 ft. of water bailed out



COPY TO: C. D. REESE  
LAND DEPARTMENT  
DIVISION SUPERINTENDENT  
DISTRICT SUPERINTENDENT

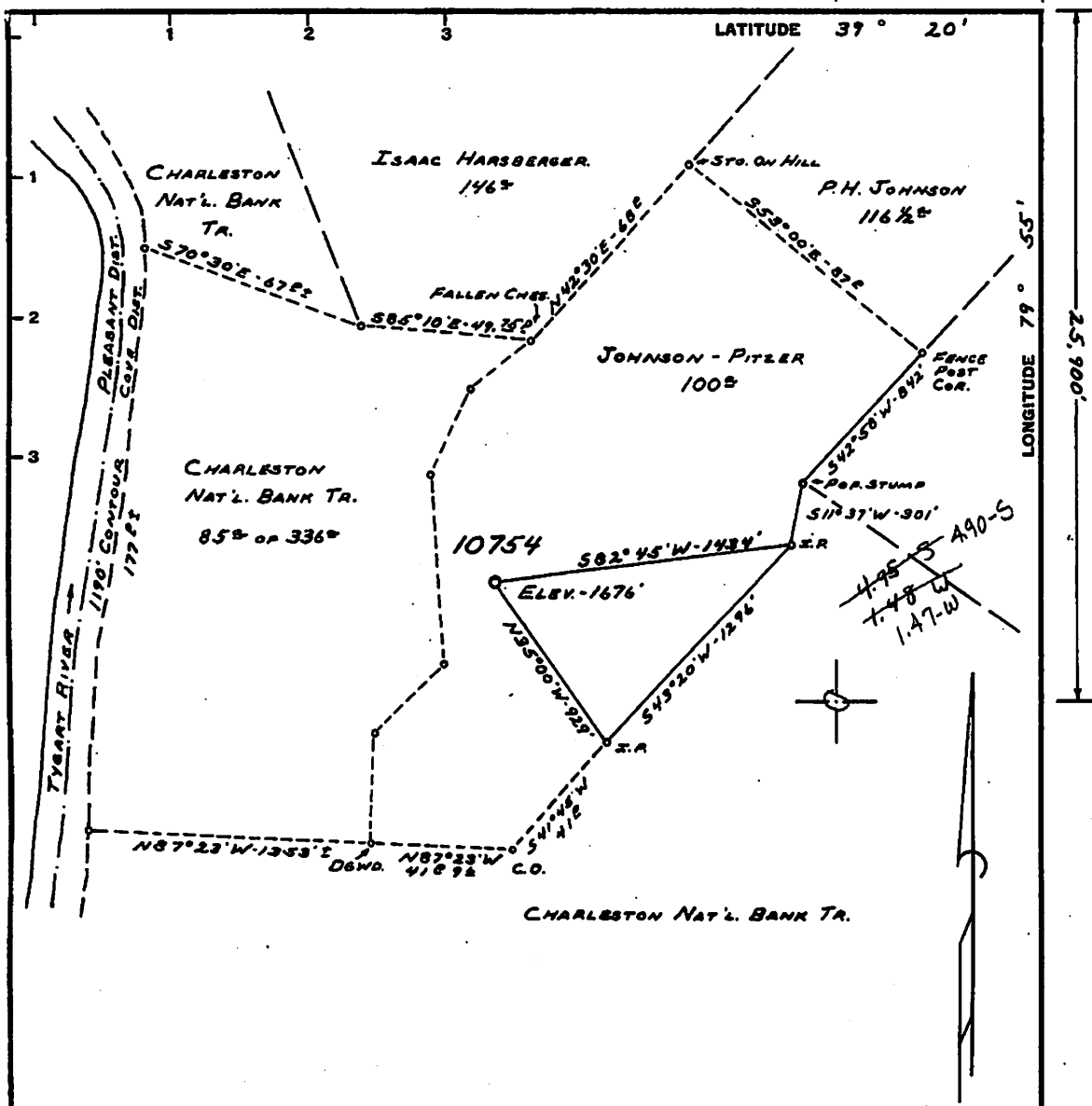
REPORTED BY: P.D. Anderson

DATE: 12-6-65

WORKING DISTRICT: Bridgewater

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47-001-00254P



Minimum Error of Closure 1" IN 200'  
 Source of Elevation U.E. RAIL ROAD SPIRE IN ROOT OF 16" WALNUT ALONG W.VA. SECONDARY ROUTE 11. ELEV. 1695.2'  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location   
 Drill Deeper   
 Abandonment

MAP SHEET 29-A S-14, E-36 FB 1359 Pg. 37-40

Company CONSOLIDATED GAS SUPPLY CORP  
 Address CLARKSBURG, W.VA.  
 Farm JOHNSON - PITZER  
 Tract Acres 100± Lease No. 73455-2, 73452-2  
 Well (Farm) No. 10754 Serial No. 10754  
 Elevation (Spirit Level) 1676'  
 Quadrangle THORNTON S.W.  
 County BARBOUR District COVE  
 Engineer Guy H. Bradley  
 Engineer's Registration No. 2425  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 8-6-65 Scale 1" = 40'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. BAR-254  
 Class: 1/

† Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

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 OCT 17 2017  
 WV Department of Environmental Protection

12/22/2017



WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
10754

3) API Well No.: 47 - 001 - 00254

**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:  
(a) Name David, Gerald, Paul, & Lowell Pitzer  
Address 5209 Aspen Meadow Drive  
Ravenna, OH 44266  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Kenneth Greynolds  
Address 613 Broad Run Road  
Jane Lew WV 26378  
Telephone 304-206-6613

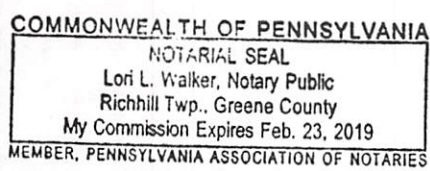
5) (a) Coal Operator  
Name N/A  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Shiloh Development, Inc.  
Address 7 Maple Lake  
Bridgeport, WV 26330  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_

**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 Consol Gas Company  
By: Sarah Weigand  
Its: Permitting Manager  
Address 1000 Consol Energy Drive  
Canonsburg, PA 15370  
Telephone 724-485-3244

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Office of Oil and Gas  
OCT 17 2017  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 28th 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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

WW-9  
(5/16)

API Number 47 - 001 - 00254  
Operator's Well No. \_\_\_\_\_

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

Operator Name Consol Gas Company OP Code 494495754

Watershed (HUC 10) Tygart Lake-Tygart Valley River Quadrangle Thornton

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 Sarah Weigand

Company Official (Typed Name) Sarah Weigand

Company Official Title Permitting Manager

Commonwealth of Pennsylvania County of Greene

Subscribed and sworn before me this 28th day of September, 2017

Lori L Walker Notary Public

My commission expires February 13, 2019

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COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Lori L. Walker, N.  
Richhill Twp., Gre  
My Commission Expires  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES  
12/23/2017

Form WW-9

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: \_\_\_\_\_

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

Title: OIL & GAS INSPECTOR

Date: 10-12-17

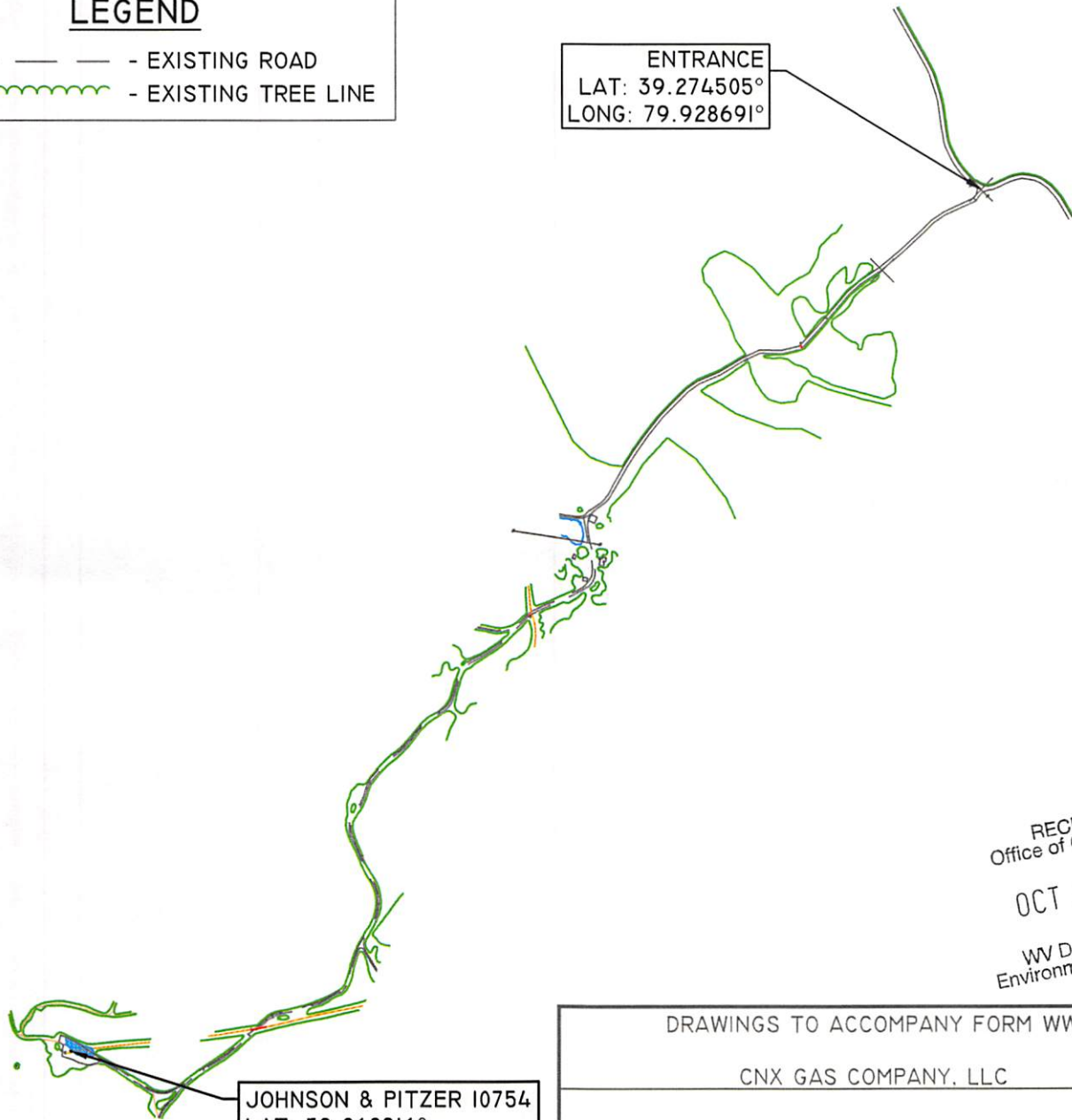
Field Reviewed? ( ) Yes (  ) No

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Environmental Protection

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

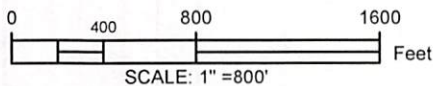
WATERSHED: TYGART LAKE-TYGART VALLEY RIVER

DISTRICT: COVE COUNTY: BARBOUR

QUADRANGLE: THORNTON WELL NO: JOHNSON & PITZER I0754

DATE: 09/05/2017 PAGE 1 OF 6

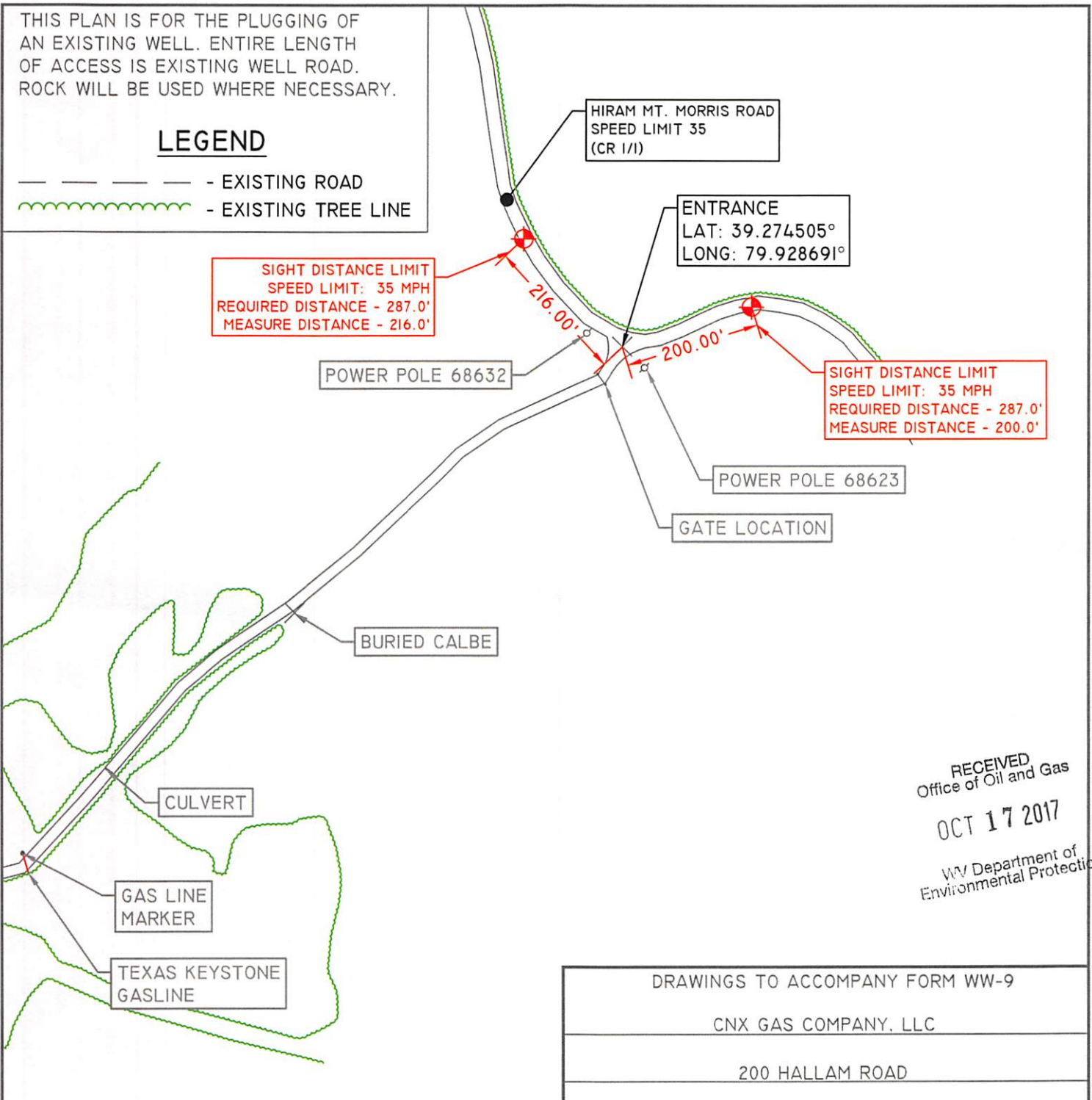
JOHNSON & PITZER I0754  
LAT: 39.262916°  
LONG: 79.944386°



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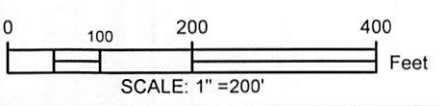
**LEGEND**

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



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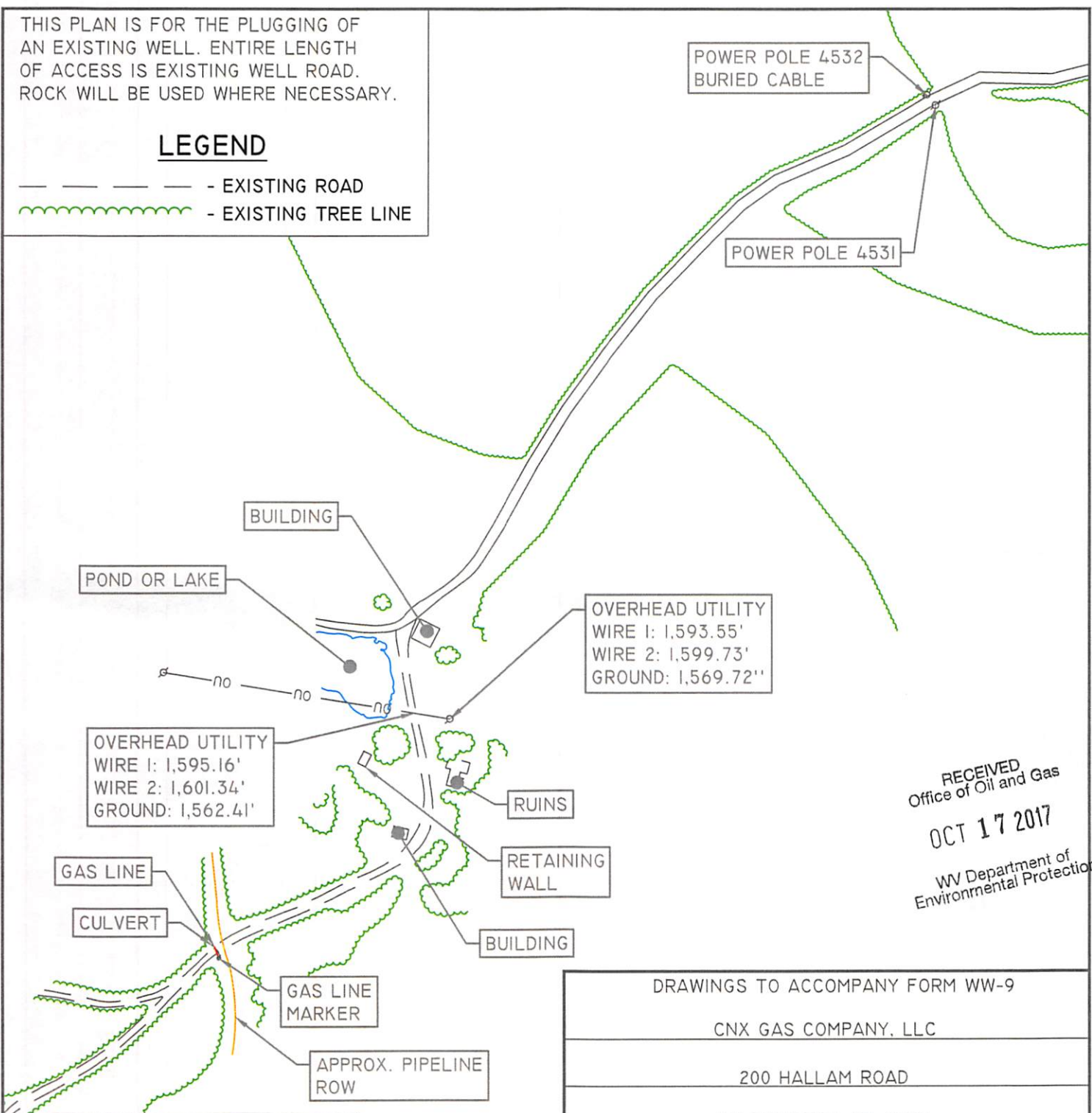
DRAWINGS TO ACCOMPANY FORM WW-9	
CNX GAS COMPANY, LLC	
200 HALLAM ROAD	
WASHINGTON, PA 15301	
WATERSHED: <u>TYGART LAKE-TYGART VALLEY RIVER</u>	
DISTRICT: <u>COVE</u>	COUNTY: <u>BARBOUR</u>
JOHNSON &	
QUADRANGLE: <u>THORNTON</u>	WELL NO: <u>PITZER 10754</u>
DATE: <u>09/05/2017</u>	PAGE <u>2</u> OF <u>6</u>



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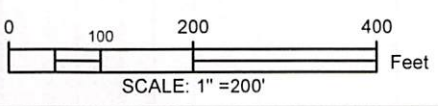
**LEGEND**

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- ~~~~~ EXISTING TREE LINE



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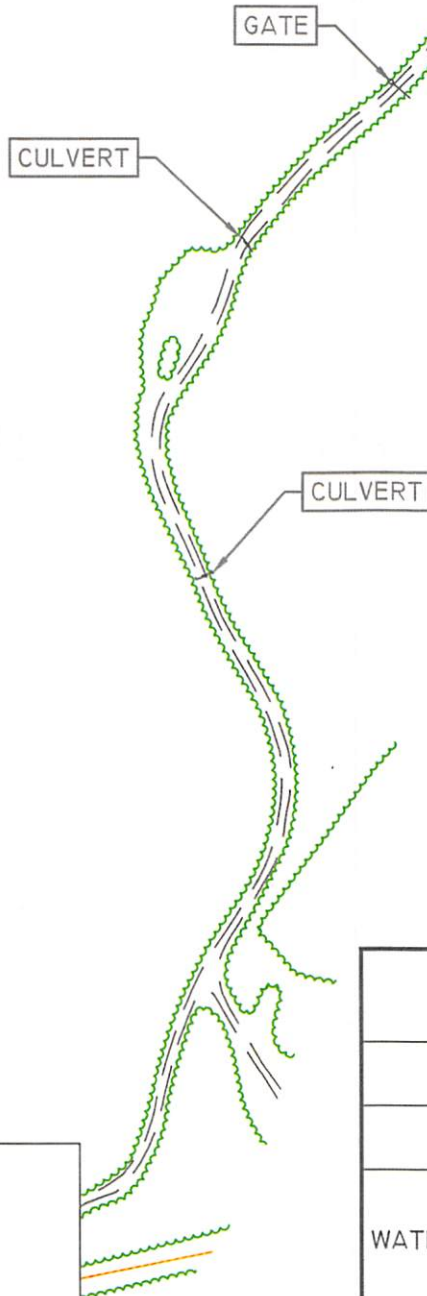
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CNX GAS COMPANY, LLC	
200 HALLAM ROAD	
WASHINGTON, PA 15301	
WATERSHED: <u>TYGART LAKE-TYGART VALLEY RIVER</u>	
DISTRICT: <u>COVE</u>	COUNTY: <u>BARBOUR</u>
JOHNSON &	
QUADRANGLE: <u>THORNTON</u>	WELL NO: <u>PITZER 10754</u>
DATE: <u>09/05/2017</u>	PAGE <u>3</u> OF <u>6</u>



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DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY, LLC

200 HALLAM ROAD

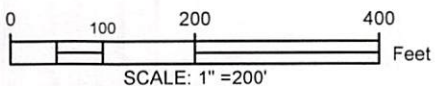
WASHINGTON, PA 15301

WATERSHED: TYGART LAKE-TYGART VALLEY RIVER

DISTRICT: COVE COUNTY: BARBOUR

QUADRANGLE: THORNTON WELL NO: JOHNSON & PITZER I0754

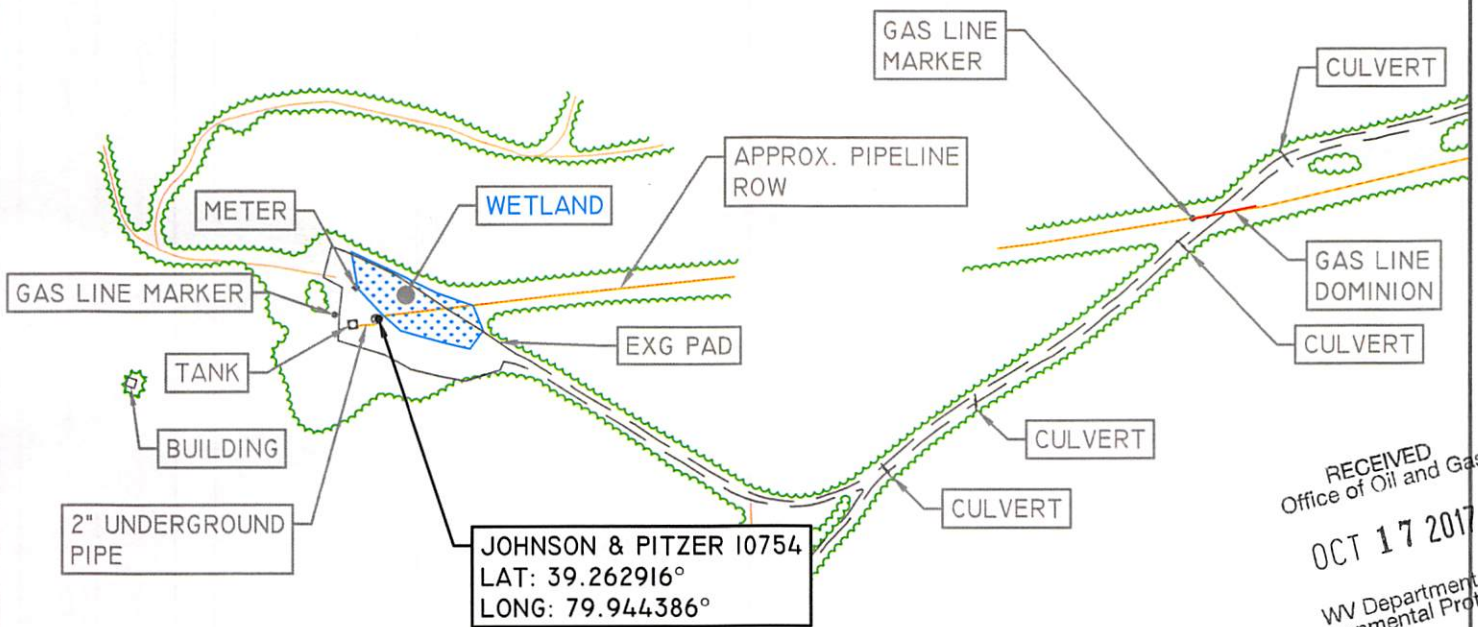
DATE: 09/05/2017 PAGE 4 OF 6



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**LEGEND**

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



JOHNSON & PITZER I0754  
 LAT: 39.262916°  
 LONG: 79.944386°

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 WV Department of  
 Environmental Protection

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CNX GAS COMPANY, LLC

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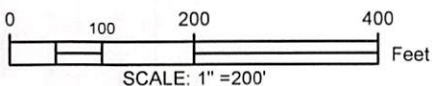
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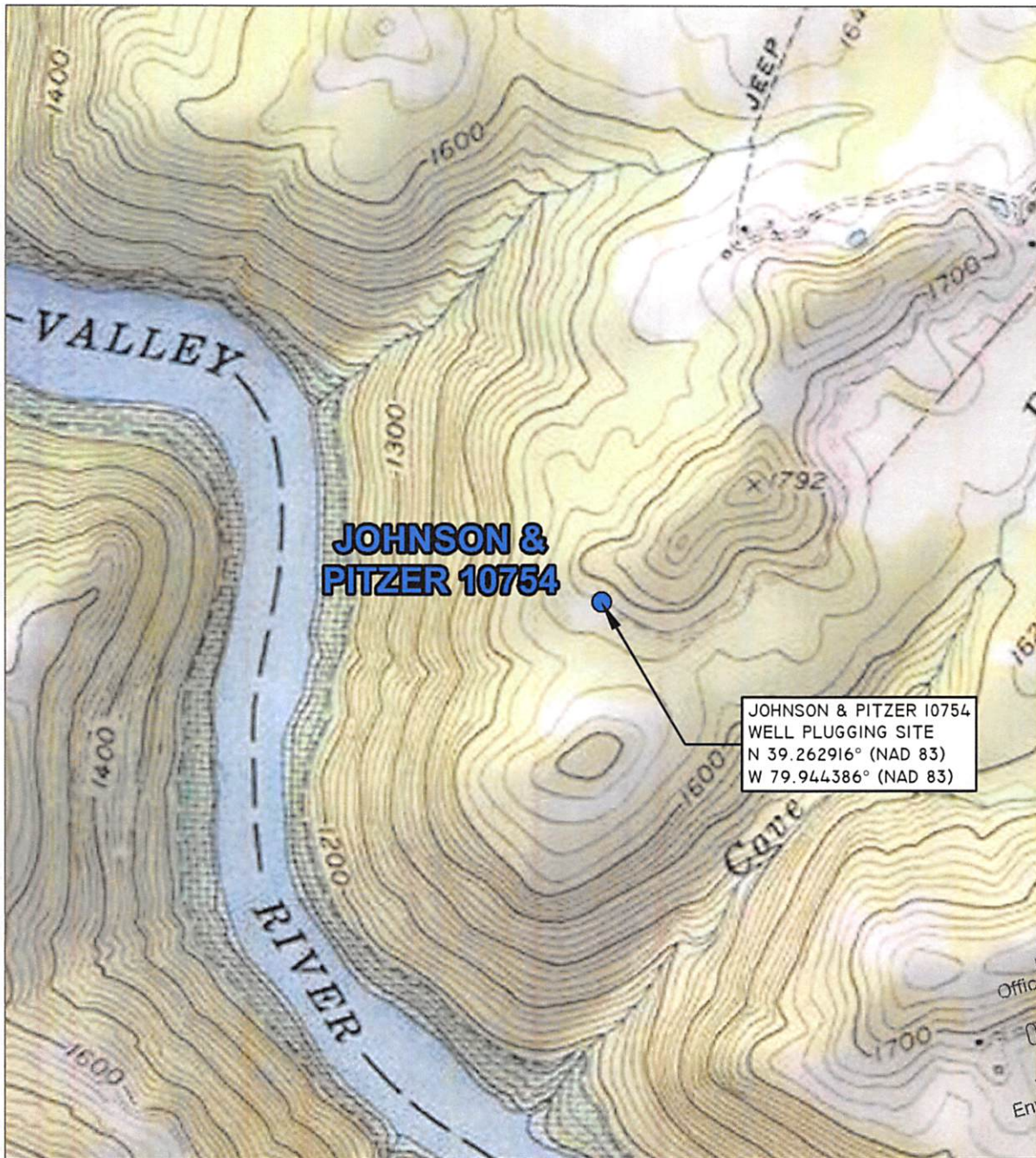
DISTRICT: COVE COUNTY: BARBOUR

QUADRANGLE: THORNTON WELL NO: JOHNSON & PITZER I0754

DATE: 09/05/2017 PAGE 5 OF 6







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LOCATION MAP  
THORNTON, 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 26362-9656  
(304) 662-6486

**LOCATION MAP**  
GAS WELL PLUGGING  
JOHNSON & PITZER 10754 GAS WELL  
COVE DISTRICT  
BARBOUR COUNTY, WV  
CNX GAS COMPANY, LLC  
200 HALLAM ROAD  
WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF
DATE: 09/05/2017
SCALE: 1"=1000'
WATERSHED: TYGART LAKE-TYGART VALLEY RIVER
PAGE <u>6</u> OF <u>6</u>

WW-7  
8-30-06



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

API: 47-001-00254 WELL NO.: 10754

FARM NAME: Johnson-Pitzer

RESPONSIBLE PARTY NAME: Sarah Weigand

COUNTY: Barbour DISTRICT: Cove

QUADRANGLE: Thornton

SURFACE OWNER: David, Gerald, Paul, & Lowell Pitzer

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

UTM GPS NORTHING: 4,346,484.287 METERS

UTM GPS EASTING: 591,069.256 METERS GPS ELEVATION: 1675ft  
510.54 METERS

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 \_\_\_\_\_ : 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.

Sarah Weigand  
Signature

Permitting Manager  
Title

9/28/17  
Date

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