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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)

Wednesday, July 17, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

CNX GAS COMPANY LLC  
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for 1  
47-051-00624-00-00

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: 1  
Farm Name: BEVERLY MAE DAVIS  
U.S. WELL NUMBER: 47-051-00624-00-00  
Vertical Plugging  
Date Issued: 7/17/2019

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

1) Date \_\_\_\_\_, 20 19  
2) Operator's  
Well No. GRAY #1  
3) API Well No. 47-051 - 00624 P

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 \_\_\_\_/ Shallow X \_\_\_\_

5) Location: Elevation 1253' Watershed Left Fork Maggoty Run  
District Liberty County Marshall Quadrangle Cameron

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 9) Plugging Contractor  
Name James Nicholson Name Contractors Services Incorporated of WV  
Address P.O. Box 44 Address 929 Charleston Road  
Moundsville, WV 26041 Spencer, WV 25276

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

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Office of Oil and Gas

MAY 8 2019

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 James Nicholson Date 5/2/19

**Plugging Procedure for Permit 47-051-00624 (William Gray #1)**

1. Run in to verify TD (~3009').
2. TIH w/ work string to TD and gel hole
3. Pump cement plugs from TD to 2412' (3009'-2412') (No larger than 500' plugs)
4. TOOH w/ work string and WOC
5. Run in well and check TOC. Pump more cement if TOC is low.
6. Make attempt to pull 5" casing. If casing will not come out, then RIH with wireline and perf casing 4 shots per 100' from 2412' to 2297'
7. TIH w/ work string and cement from 2412' to 2297'
8. TOOH w/ work string and WOC
9. Run in well and check TOC. Pump more cement if TOC is low
10. Make attempt to pull 6" casing. If casing will not come out, then RIH with wireline and perf casing 4 shots per 100' from 2297' to 1625'
11. TIH w/ work string and cement from 2297' to 1625'
12. TOOH w/ work string and WOC
13. Run in well and check TOC. Pump more cement if TOC is low
14. Make attempt to pull 8" casing. If casing will not come out, then RIH with wireline and perf casing 4 shots per 100' from 1625' to 1380'
15. TIH w/ work string and cement from 1625' to 1380'
16. TOOH w/ work string and WOC
17. Run in well and check TOC. Pump more cement if TOC is low

*5/10/09*

18. Make attempt to pull 10" casing. If casing will not come out, then RIH with wireline and perf casing 4 shots per 100' from 1380' to 100'
19. TIH w/ work string and cement from 1380' to surface (No larger than 500' plugs)
20. TOOH w/ work string and top off cement to surface. Make sure if 10" casing still in well that 10"x13" annulus is topped off w/ cement
21. Install 6" x 14' monument (10' below grade, 4' above grade). Monument must contain (API#, Well Name, Company Name & Date Plugged)

NOTE: All cement will be Class A. All spacers between plugs will be 6% gel. Any casing unable to be recovered will be perforated every 100' w/ 4 shots and 100' cement plugs will be set to cover all cut points.

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WV D  
Environmental E      on

5/10/19

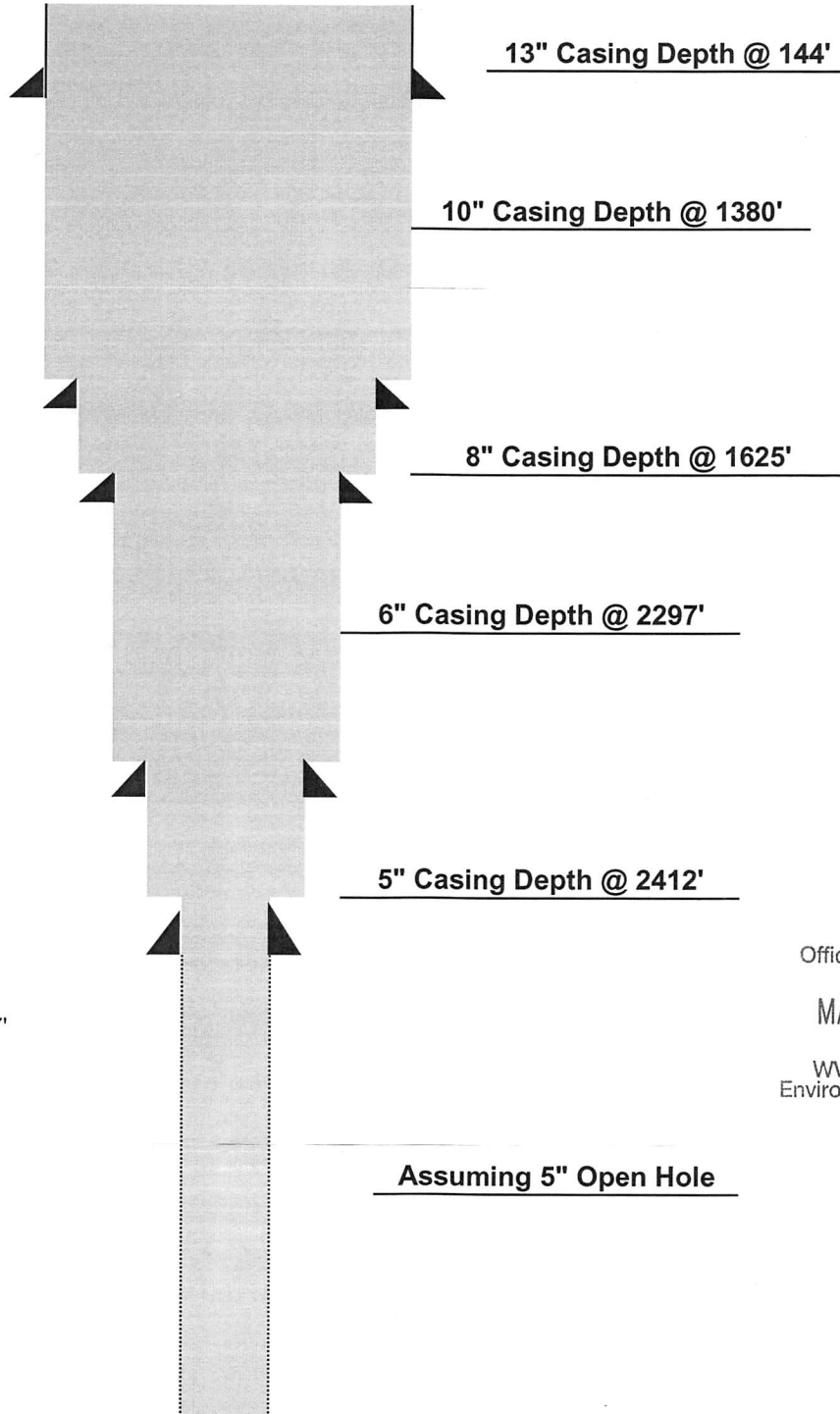
**Wm. Gray #1 (Post-Plugging)**

Liberty District, Marshall Co.

Original Completion : 6/5/1901

API #47-051-00624

Elevation = ?



Pittsburgh Coal- 990'-997'  
 Big Injun-2038'-2410'  
 Stray Sand- 2984'  
 Gordon- 3006'

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 Office of Oil and Gas

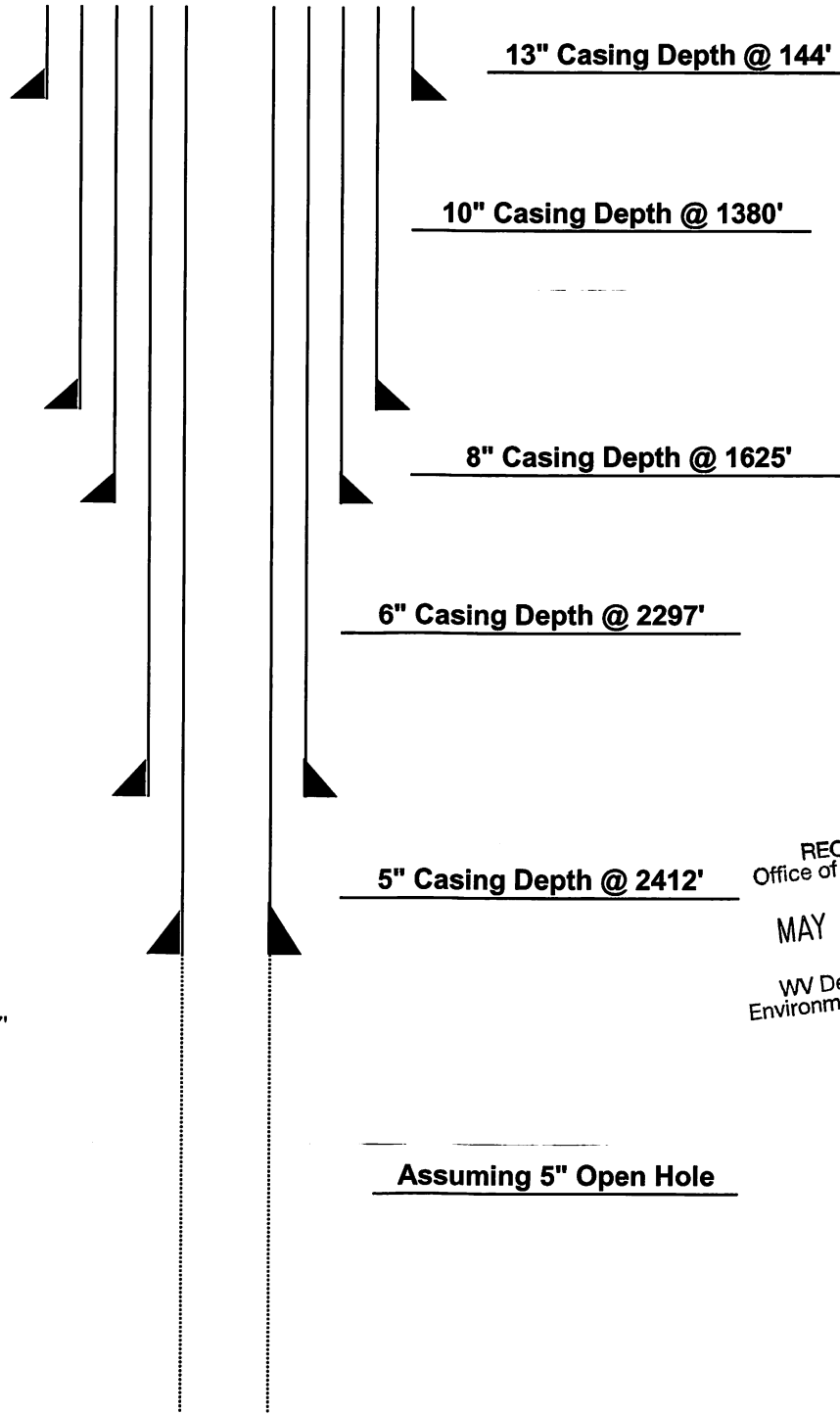
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WV Department  
 Environmental Protection

Assuming 5" Open Hole

TD @3009'

**Wm. Gray #1**  
Liberty District, Marshall Co.  
Original Completion : 6/5/1901  
API #47-051-00624  
Elevation = ?



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MAY 8 2019  
WV Department of  
Environmental Protection

Pittsburgh Coal- 990'-997'  
Big Injun-2038'-2410'  
Stray Sand- 2984'  
Gordon- 3006'

Assuming 5" Open Hole

TD @3009'

51-624

No. 1 SOUTH PENN OIL COMPANY - COMPLETION 3150

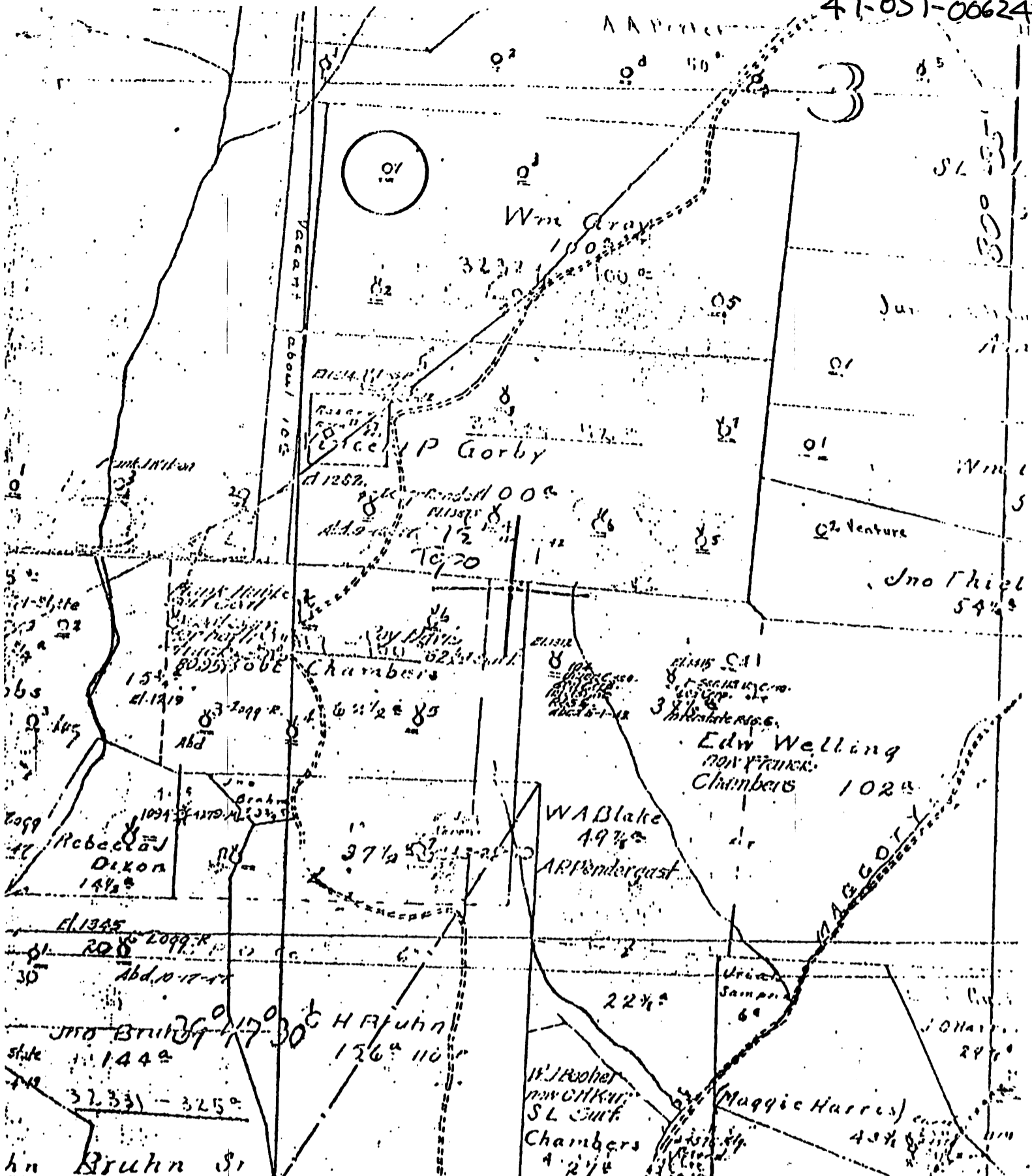
SERIAL NO. \_\_\_\_\_ FARM Wm. Gray WELL NO. 1  
 ELEVATION 226 N. 25 S. \_\_\_\_\_ E. \_\_\_\_\_ W. \_\_\_\_\_  
 LEASE NO. 32329 ACRES 100  
 WATERS OF \_\_\_\_\_  
 DISTRICT Liberty COUNTY Marshall STATE W. Va.  
 DRILLING COMMENCED 2/7/01 COMPLETED 6/5/01 DEPTH 3009

SANDS	TOP	BOTTOM	ELEV. TOP	CASING
Pgn. COAL <del>PKY</del>	990	997		13" 144'8"
Big Injun	2138	2410		10" 1380'7"
Stray Sand	2984			8" 1625'2"
Gordon Sand	3006			6" 2297'2"
				5" 2412'4"
PACKERS AND DEPTH SET				

INITIAL PROD. ? SAND Gordon DEPTH 2986  
 GAS TEST \_\_\_\_\_  
 SHOT 5/2/03 QUARTS. 80 " Gordon " 2984  
 REMARKS \_\_\_\_\_

REPORTED BY G. W. KING NINEVEN DISTRICT ABANDONED





(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (10-78)  
 193 W26 E3



DATE Jan 5, 19 79  
 OPERATOR'S WELL NO. 1  
 API WELL NO. 47-051-0624  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS", PRODUCTION  STORAGE  DRIP  SHALLOW   
 LOCATION: ELEVATION \_\_\_\_\_ WATER SHED Left Fork Maggoty Run  
 DISTRICT Liberty COUNTY Marshall  
 QUADRANGLE Cameron 7 1/2  
 SURFACE OWNER \_\_\_\_\_ ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER \_\_\_\_\_ LEASE NO. \_\_\_\_\_ LEASE ACREAGE \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  RE-DRILL  FRACTURE OR STIMULATE  PLUS OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUS AND ABANDON  CLEAN OUT AND REPLUS   
 TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Taylor  
 ADDRESS P. O. Box 1588 ADDRESS P. O. Box 1588  
Parkersburg, WV 26101 Parkersburg, WV 26101

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number \_\_\_\_\_  
Gray #1 \_\_\_\_\_  
3) API Well No.: 47 - 051 - 00624

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

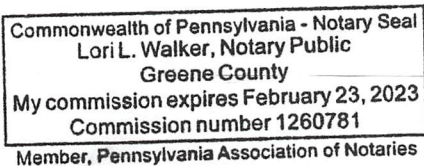
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Beverly Mae Davis</u>	Name <u>Consol Mining Company LLC</u>
Address <u>205 Byrnes Lane</u>	Address <u>1000 Consol Energy Drive</u>
<u>Moundsville, WV 26041</u>	<u>Canonsburg, PA 15317</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consol Mining Company LLC</u>
	Address <u>1000 Consol Energy Drive</u>
	<u>Canonsburg, PA 15317</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>James Nicholson</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 44</u>	Name <u>n/a</u>
<u>Moundsville WV 26041</u>	Address _____
Telephone <u>304-552-3874</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 Manager  
 Address 1000 Consol Energy Drive  
Canonsburg, PA 15317  
 Telephone 724-485-4035

Commonwealth of Pennsylvania County of Washington  
 Subscribed and sworn before me this 6th day of May 2019  
Lori L. Walker Notary Public  
 My Commission Expires February 23, 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).

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) Left Fork Maggoty Run Quadrangle Cameron

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) MAY 8 2019

-Landfill or offsite name/permit number? WV Department of Environmental Protection

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

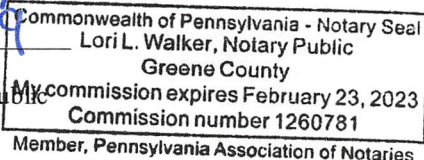
Company Official (Typed Name) Erika Whetstone

Company Official Title Permitting Manager

Commonwealth of Pennsylvania County of Washington  
Subscribed and sworn before me this 6th day of May 2019

Lori L. Walker  
Notary Public

My commission expires February 23, 2023



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	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: Jesse Uehlsch

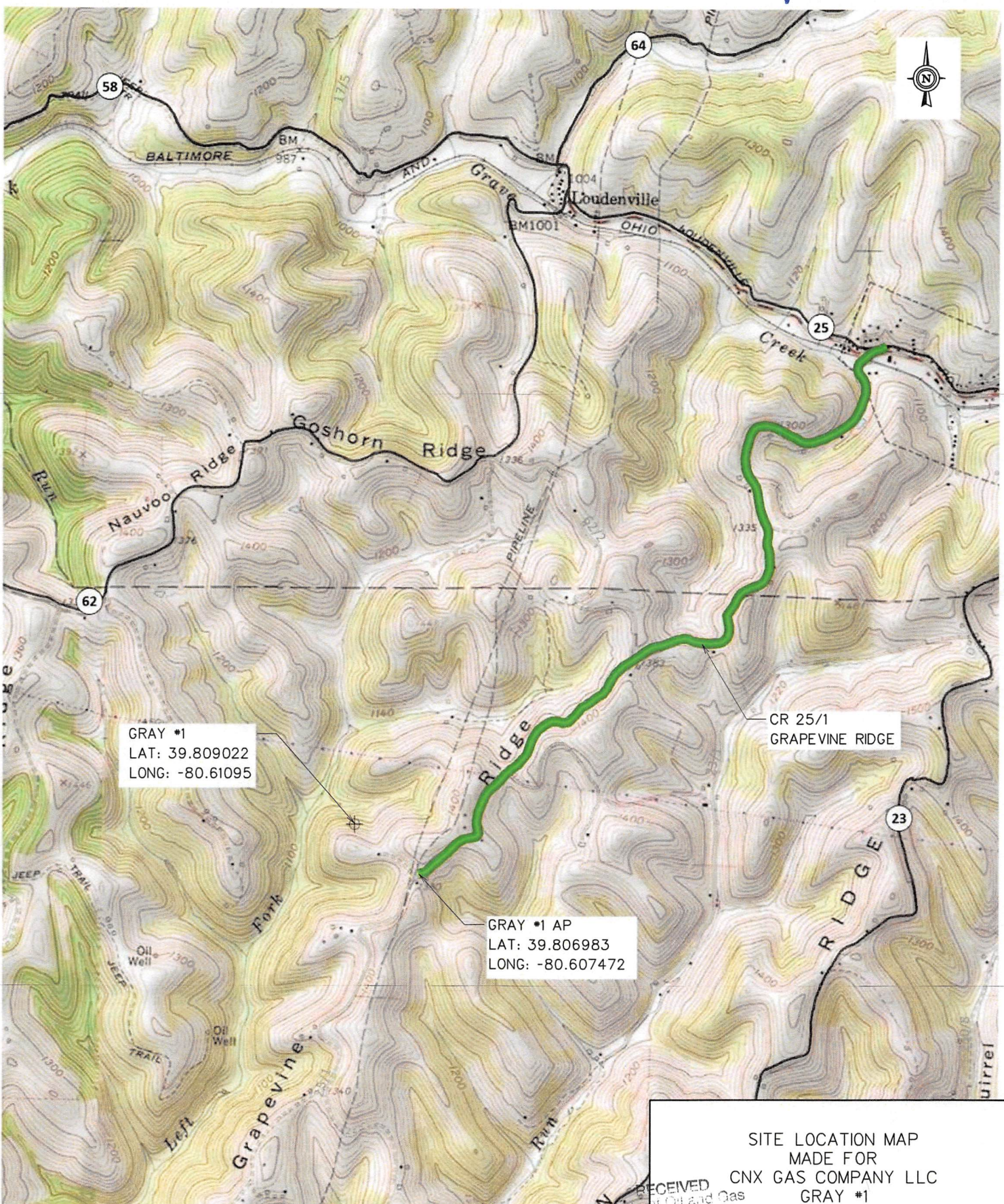
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Office of Oil and Gas  
MAY 8 2019  
WV Department of Environmental Protection

Title: Oil & Gas (suspect) Date: 5/1/19

Field Reviewed? (  ) Yes (  ) No



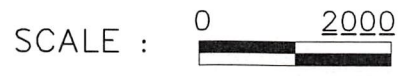


GRAY #1  
 LAT: 39.809022  
 LONG: -80.61095

GRAY #1 AP  
 LAT: 39.806983  
 LONG: -80.607472

CR 25/1  
 GRAPEVINE RIDGE

REFERENCES: MAGERY PROVIDED BY USGS:  
 CAMERON, WV QUADRANGLE;  
 STATE 7.5 MINUTE SERIES



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 Marshall County Department of Oil and Gas

MARSHALL COUNTY, WV

PREPARED BY  
 SHEAFFER ENGINEERING  
 6000 TOWN CENTER BLVD., SUITE 215  
 CANONSBURG, PA. 15317  
 PHONE: 724.960.1111 FAX: 724.960.1162

WW-7  
8-30-06



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

API: 47-051-00624 WELL NO.: GRAY #1

FARM NAME: Gray

RESPONSIBLE PARTY NAME: Erika Whetstone

COUNTY: Marshall DISTRICT: Liberty

QUADRANGLE: Cameron

SURFACE OWNER: Beverly Mae Davis

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

UTM GPS NORTHING: 4406633.27

UTM GPS EASTING: 533301.57 GPS ELEVATION: 1253

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 \_\_\_\_\_

Real-Time Differential X

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 Whetstone  
Signature

Permitting Manager  
Title

5/6/19  
Date