

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Harsh, Nora Operator Well No.: 4437

LOCATION: Elevation: 1125.7' Quadrangle: Majorsville, WV  
District: Sand Hill County: Marshall  
Latitude: 1377 Feet South of 39 Deg. 57 Min. 30 Sec.  
Longitude: 9279 Feet West of 80 Deg. 30 Min. 00 Sec.

Well Type: OIL \_\_\_\_\_ GAS X

Company Columbia Gas Transmission, LLC Coal Operator Murray Energy Corporation, American Consolidated Natural Resources, Inc.  
1700 MacCorkle Avenue S.E., P.O. Box 1273 or Owner 46226 National Road  
Charleston, WV 25325 St. Clairsville, OH 43950  
Agent Brad Nelson, Storage Engineer Coal Operator \_\_\_\_\_  
Permit Issued Date 4/20/2022 or Owner \_\_\_\_\_

AFFIDAVIT

Pennsylvania  
STATE OF ~~WEST VIRGINIA~~,  
County of Washington ss:

Brad Nelson and Bo Hampson being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 12th day of May, 2022, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Class A Cement	0'	13'	N/A	20", 13-3/8", 10-3/4", 7"
Class A Cement	13'	19'	N/A	20", 13-3/8", 10-3/4", 7"
Class A Cement	19'	150'	N/A	13-3/8", 10-3/4", 7"
Class A Cement	150'	602'	N/A	10-3/4", 7"
Class A Cement	602'	713'	N/A	7"
Class A Cement	713'	1320'	N/A	7"
Class A Cement	1320'	1354'	N/A	N/A

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Office of Oil and Gas

Description of monument: 7" casing, 48" above ground level, API and well number affixed and that the work of plugging and filling said well was completed on the 19th day of May, 2022.

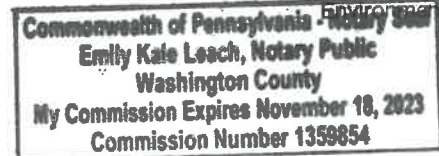
MAY 26 2022

And further deponents saith not. Brad Nelson  
Bo Hampson

Sworn and subscribe before me this 19th day of May, 2022

My commission expires: 11/18/2023

Emily Kate Leach  
Notary Public



WV Department of Environmental Protection

Affidavit reviewed by the Office of Oil and Gas: Gayne Knitowski  
Digitally signed by Gayne Knitowski Date: 2022.05.24 08:13:13 -0400

Title: Inspector

06/03/2022

~ not to scale ~

# Majorsville Shallow 4437

Post P&A

(as of 5/19/2022)

\*A show of gas was reported at 563' and fresh water at 115' by the Driller in 1957.

Cement Plug #3 Top @ 0'

20" casing @ 19'

Cement Plug #2 Top @ 13'

13-3/8" casing @ 150'

Collapsed casing at 344' from surface on the 7" flowstring as per caliper log ran on 11/23/2021. Estimated ID of 3".

A CBL on the 7" casing indicated good cement bonding to surface. No attempt was made to recover casing after consultation with the WVDEP Inspector.

Pittsburgh Coal 562'-578'

10-3/4" csg @ 602'

Cement Plug #1 Top @ 713'

Big Dunkard 1030'-1050'

darker grey indicates plugging cement

Sea Level @ 1125.7 ft

Gas Sand 1200'-1255'

lighter grey indicates existing cement

1<sup>ST</sup> Salt Sand 1324'-1340'

7" casing @ 1320'

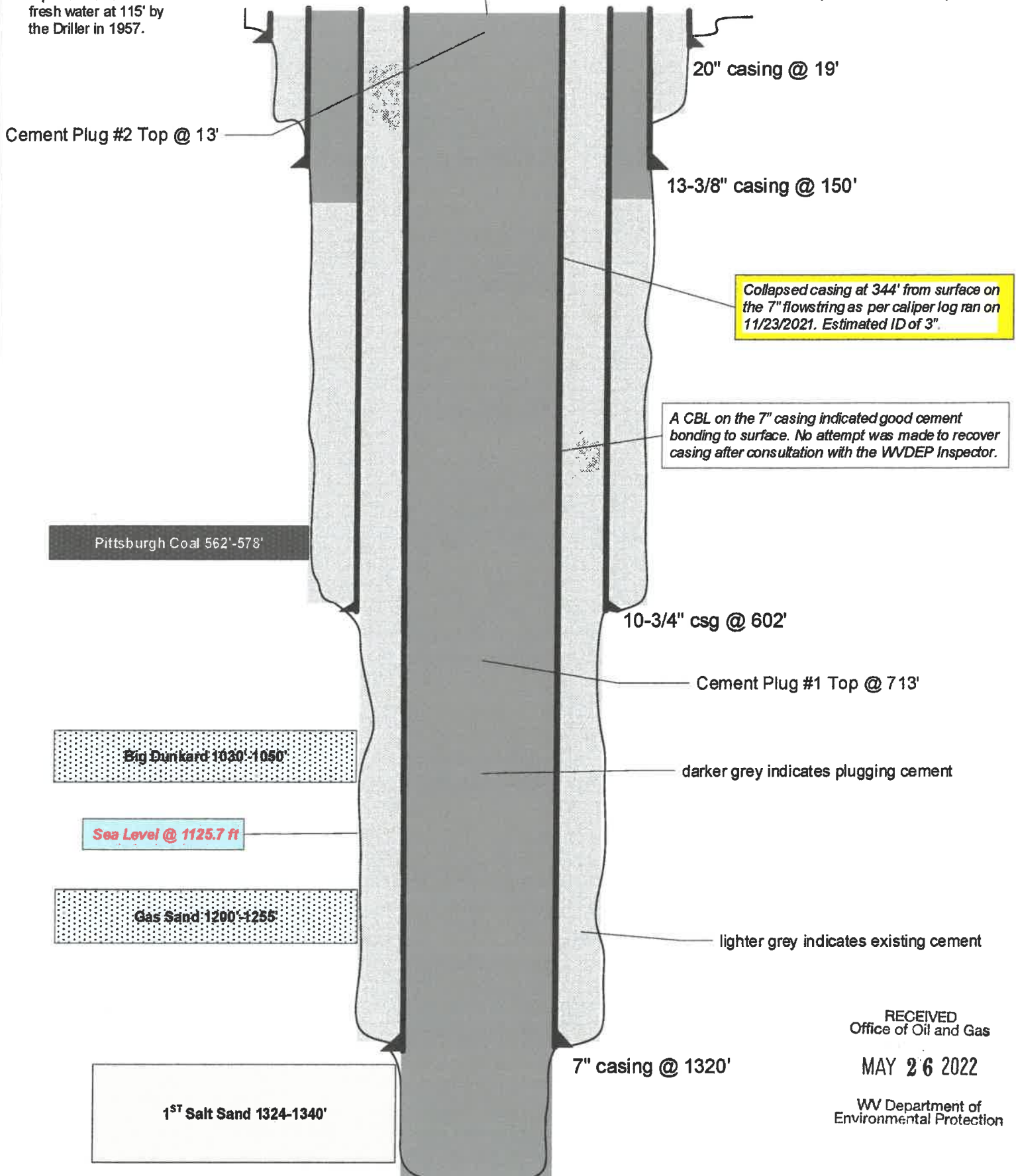
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Environmental Protection

TD 1354'

06/03/2022



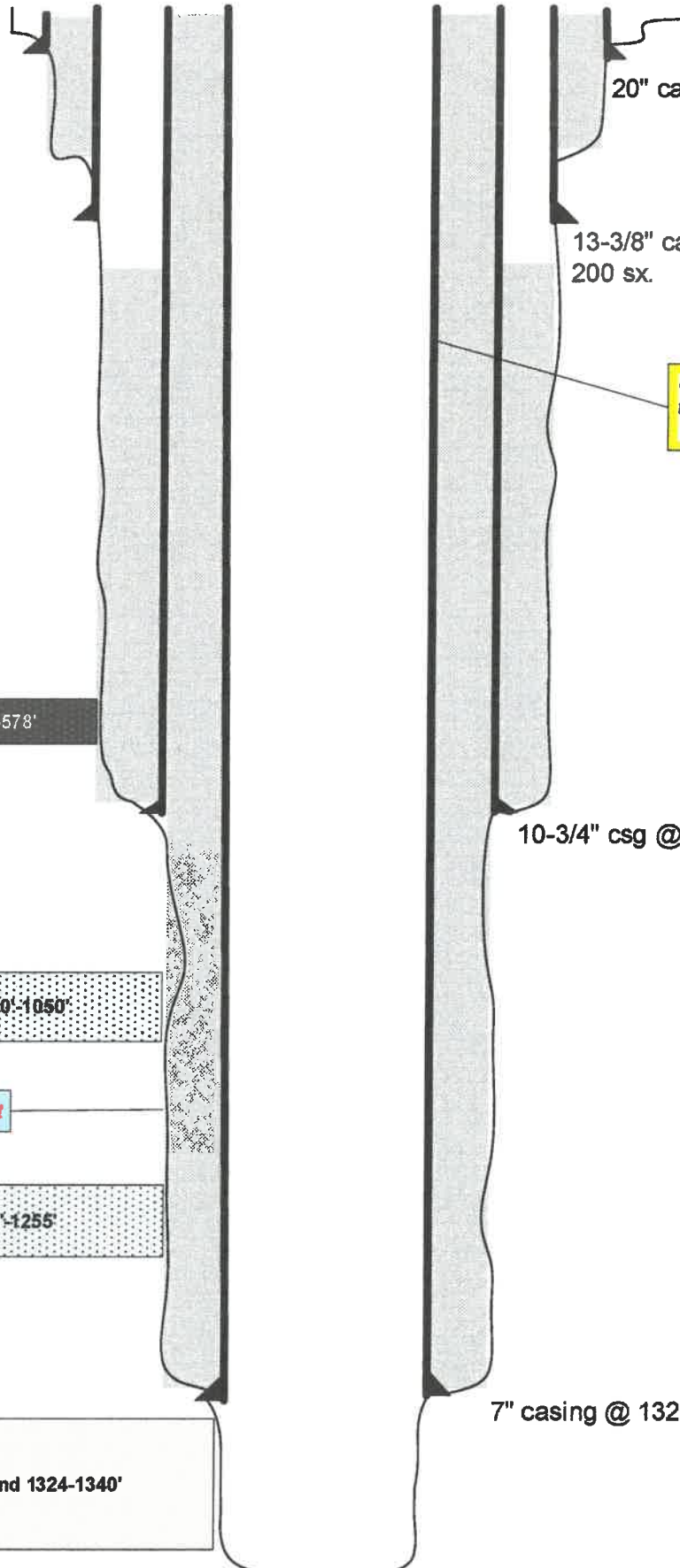
~ not to scale ~

# Majorsville Shallow 4437

Prior to P&A

(as of 4/20/2022)

\*A show of gas was reported at 563' and fresh water at 115' by the Driller in 1957.



20" casing @ 19'. No record of cement.

13-3/8" casing @ 150'. Cemented with 200 sx.

Collapsed casing at 344' from surface on the 7" flowstring as per caliper log ran on 11/23/2021. Estimated ID of 3".

Pittsburgh Coal 562'-578'

Big Dunkard 1030'-1050'

Sea Level @ 1125.7 ft

Gas Sand 1200'-1255'

1<sup>ST</sup> Salt Sand 1324'-1340'

10-3/4" csg @ 602'. Cemented with 200 sx.

7" casing @ 1320'. Cemented with 350 sx.

TD 1354'

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MAY 26 2022

WV Department of  
Environmental Protection

06/03/2022



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, April 20, 2022  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC  
STORAGE TECHNICAL SERVICES - 6TH FLOOR  
1700 MACCORKLE AVE. SE.  
CHARLESTON, WV 25314

Re: Permit approval for 4437  
47-051-00312-00-00

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

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Office of Oil and Gas

MAY 26 2022

WV Department of  
Environmental Protection

Operator's Well Number: 4437  
Farm Name: HARSII, NORA  
U.S. WELL NUMBER: 47-051-00312-00-00  
Vertical Plugging  
Date Issued: 4/20/2022

Promoting a healthy environment.

06/03/2022

## 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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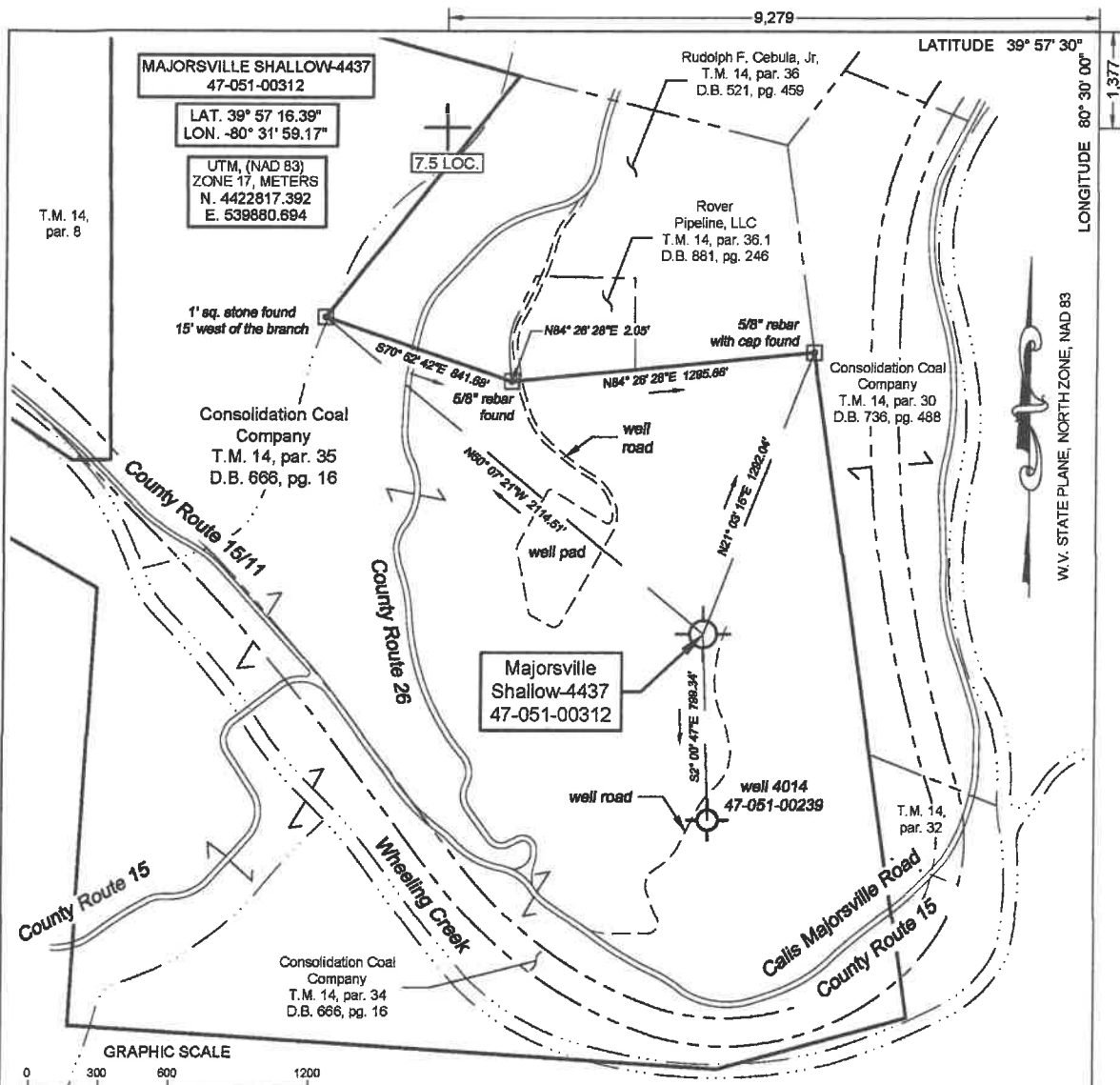
1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of 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.

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WV Department of  
Environmental Protection

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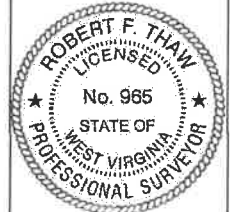


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. **2001-2345-001-015**  
 DRAWING No. **MAJORSVILLE 4437**  
 SCALE **1 INCH = 600 FEET**  
 MINIMUM DEGREE OF ACCURACY **1:200**  
 PROVEN SOURCE OF ELEVATION **TRIMBLE R10 GPS UNIT**

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) *R. Thaw*  
**ROBERT F. THAW PS #965**



**STATE OF WEST VIRGINIA**  
**DIVISION OF ENVIRONMENTAL PROTECTION**  
**OFFICE OF OIL AND GAS**  
**NITRO, WV**

DATE MARCH 2 2022  
 OPERATOR'S WELL No. 4437  
 API WELL No. 47 051 - 00312

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE COUNTY PERMIT  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1125.7 WATER SHED WHEELING CREEK  
 DISTRICT SAND HILL COUNTY MARSHALL  
 QUADRANGLE MAJORSVILLE, WV

SURFACE OWNER CONSOLIDATION COAL COMPANY ACREAGE 248.393  
 OIL & GAS ROYALTY OWNER CONSOLIDATION COAL COMPANY  
 LEASE ACREAGE 300 LEASE NO. 3019436-000

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE   
 STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION SALT SAND ESTIMATED DEPTH 1348  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT BRAD NELSON  
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS 455 RACETRACK ROAD  
25325-1273 WASHINGTON, PA 15301

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 MAY 26 2022  
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 Environmental Protection